

QUICK LINKS

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Edition 13 UPDATED: September 21, 2015



COMMUNICATIONS PRODUCTS **PREMISES | OSP | FTTP | WIRELESS**

SuperiorEssex.com







About Superior Essex

Superior Essex International LP is a global leader in the design, manufacture, and supply of communications and energy cable products for indoor and outdoor applications. We offer a broad communications portfolio including premises optical fiber and copper cables, Outside Plant (OSP) cables, Fiber-to-the-Premises (FTTP) closures and enclosures, Fire Alarm and Security (FAS) cables, and Wireless cables and accessories. With over eighty years serving the communications and energy markets, we have cultivated a solid reputation as the preferred supplier of high-performance cabling for major communications service providers, leading enterprises, universities, hospitals, military facilities and businesses that rely on our innovative solutions to meet the demands of their evolving networks.



OUR COMMITMENTS TO TRANSPARENCY AND SUSTAINABILITY

Superior Essex is firmly committed to environmental responsibility and transparency, and we constantly strive to lead innovation and design toward sustainable product solutions.

We are the first wire and telecommunications cable manufacturer to conduct an independent full Life Cycle Assessment examining the environmental impact of our high performance copper and optical fiber data cabling products, including our raw materials, manufacturing, transportation, installation, and end of life practices.

We are also the first in our industry to contribute toward LEED certification by offering Environmental Product Declarations (EPD) and Health Product Declarations[™] (HPD[™]) for our premises copper and optical fiber cable products. Additionally, we offer Multi-Attribute Certifications for our premises copper products, which provide transparency into our manufacturing processes and help government procurement agents meet their sustainability goals by simplifying the sustainable supplier selection process.

As the first and only sustainable and transparent cable manufacturer, we are the preferred choice for all enterprises relying on sustainable cabling solutions.

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PROVIDING QUALITY, EXPERIENCE AND EXPERTISE

Superior Essex has TL 9000 and ISO 9001:2001 certification in every communications productions facility, assuring a level of quality and consistency in both products and customer service. We also manufacture custom products with special requirements, so our Product Management team can quote and deliver unique designs that are tailored for your applications. Beyond our quality assurance, value, and flexibility, we guarantee on-time delivery of the products you request.

PREMISES CABLE

Superior Essex Premises cables offer better performance, higher quality, and the best overall value, saving you both time and money. From our 10Gain® XP CAT 6A to our CAT 3 voice and data cables, to our Coaxial cables and our multimode and single mode optical fiber cables, we offer a broad portfolio of products that are essential for high-bandwidth applications.

OUTSIDE PLANT WIRE AND CABLE

Superior Essex is one of the world's leading producers of OSP copper wire and optical fiber communications cables. With more than 4,000 different designs available, including Broadband, Composite, Fiber, and Copper Wire. This extensive line of products serves virtually every application for direct burial, aerial, and high risk installations.

FIBER-TO-THE-PREMISES (FTTP) HARDWARE



Our FTTP Hardware product line is based upon the widely-deployed LS product line. We have modified our FTTP Hardware for U.S. and Canadian markets, providing our customers with a portfolio designed and engineered to exceed durability and ruggedness of competitor products. Expedite your installations with products that are easy to order, easy to install, and easy to maintain.

WIRELESS



Wireless technology is becoming the primary communication method, so it is crucial to choose products that have exceptional quality and performance, allowing for better coverage and capacity. All of our Radio Frequency (RF) transmission and Distributed Antenna Systems (DAS) products provide an all-encompassing selection for the growing demands of wireless expansion for commercial wireless cell tower and in-building infrastructures.



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OSP FIBER CABLE

OSP FIBER CABLE	
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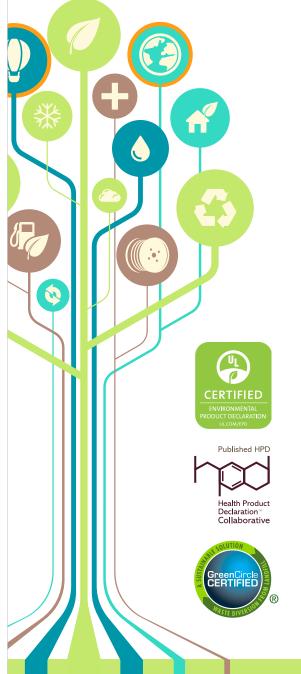


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SUSTAINABILITY FAST FACTS



Superior Essex is firmly committed to sustainable practices and transparency, and we strive to lead innovation and design toward sustainable product solutions. As the first and only telecommunications wire and cable manufacturer to offer Environmental Product Declarations (EPD), Health Product Declarations[™] (HPD[™]), and Multi-Attribute Certifications, we are the preferred choice for all enterprises relying on sustainable, high-performance cabling solutions.



What is an Environmental Product Declaration (EPD)?

- An Environmental Product Declaration is a source of transparent, scientifically-based information that discloses the potential environmental impact of a product or product family.
- Superior Essex Environmental Product Declarations are verified by UL[®] Environment, a division of the safety science company Underwriters Laboratories.
 - » Superior Essex provides premises copper and optical fiber cabling products with EPDs.

What is a Health Product Declaration (HPD)?

- A Health Product Declaration is a report that describes product contents and each ingredient's relationship to human and ecological health.
- Superior Essex Health Product Declarations are published according to the Health Product Declaration Collaborative Standard.
- » Superior Essex provides premises copper and optical fiber cabling products with HPDs.

What is a Multi-Attribute Certification?

- A Multi-Attribute Certification provides a complete overview of the sustainability of a product, its packaging and manufacturing operations.
- Superior Essex Multi-Attribute Certifications are published through GreenCircle Certified LLC, in accordance with internationally recognized standards and the Federal Trade Commission's Green Guides.
 - » Superior Essex provides premises copper cabling products with Multi-Attribute Labels.

Superior Essex Contributing to LEED certification

- Superior Essex cable products with EPDs can contribute toward one (1) building product disclosure and optimization LEED credit in the Materials and Resources credit category.
- Similarly, Superior Essex cable products with HPDs can contribute toward one (1) building product disclosure and optimization LEED credit in the Materials and Resources credit category.
- Products that have both EPDs and HPDs can contribute toward two (2) separate credits in the Materials and Resources credit category.

The Importance of Transparency and Sustainable Solutions

- As the demand for green buildings continues to grow, many architects, contractors and engineers are seeking out products that are manufactured sustainably from organizations that are transparent about their products and operations.
- The International Green Construction Code (IgCC) 2015 states that EPDs are one of several Materials and Resources Compliance pathways, and this code has been adopted in whole or in part by several municipalities and states as mandatory or voluntary.

Where can I find Superior Essex sustainability information?

- » ce.SuperiorEssex.com/enviro
- » GreenWizard.com

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CENTRAL OFFICE COPPER CABLE

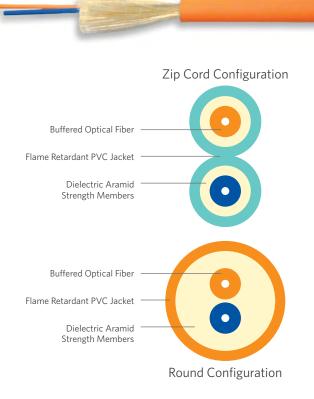
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All information, content, data, specifications, packaging and part numbers detailed herein are subject to change. For the most up-to-date information, please visit SuperiorEssex.com. Purchase of this product is subject exclusively to the then current SuperiorEssex International LP Terms and Conditions of Sale for Communications and Energy Cable, Wire and Connectivity Products, which can be found on our website, SuperiorEssex.com, or provided to you upon request.



A-1

OFNR/OFNP



SPECIFICATIONS	
Configuration	Flexible tight buffered optical fibers surrounded by aramid yarns and covered by a flame retardant jacket
Strength Elements	Dielectric aramid yarns
Jacket	OFNR: Flame retardant (FR) PVC OFNP: FR, low smoke PVC
Performance Compliance	UL 1651 CSA C22.2 No. 232 UL 1666 NFPA 262 Telcordia® GR-409-CORE, Issue 2 ANSI/ICEA S-83-596 ANSI/TIA-568-C.3
NRTL Programs	UL, c(UL) Listed OFNR UL, c(UL) Listed OFNP
Sustainability	UL Certified EPD HPD USGBC® Member RoHS-compliant/RoHS 2-compliant REACH-compliant

ENVIRONMENTAL SPECIFICATIONS

	Riser	Plenum
Operation	-40°C to +75°C	0°C to +75°C
Storage/Shipping	-40°C to +75°C	-40°C to +75°C
Installation	-20°C to +65°C	0°C to +65°C

PRODUCT DESCRIPTION

FIRST MANUFACTURER IN THE INDUSTRY

Simplex, Duplex and Quad Optical Fiber Interconnect Cables are typically used for patch cords and intrabuilding installations. Superior Essex designed these cables for environments where small size, flexible construction and flame resistance are required. These cables are available in both riser and plenum versions. Higher performance optical fibers are offered, including bend insensitive G.657.A1 single mode and 10G/300 OM3 and 10G/550 OM4 laser optimized 50 µm multimode.

The design consists of flexible tight buffer material extruded over the fiber to a diameter of 900 μm for use with standard connectors. Dielectric yarns are applied for additional strength and a flame retardant PVC jacket covers the strength members. Appropriate materials are used to achieve an OFNR (riser) or OFNP (plenum) rating. Standard 2.9 mm and small form factor 2 mm diameters are available for simplex and duplex designs.

APPLICATIONS

- Cross-connects and patch applications
- Communication closets to wall outlets
- Drop ceiling and plenum air space applications

FFATURES

FEATURES	BENEFIIS
UL [®] Certified Environmental Product Declaration (EPD)	 Contributes toward 1 LEED point under the Material and Resources credit (MRc)
 Health Product Declaration[™] (HPD[™]) 	 Contributes toward 1 LEED point under the MRc
 Simplex and duplex zip cord designs in 2 mm and 2.9 mm diameters 	• Meets all the requirements for both standard and small form factor connectors for "in-front- of-the-shelf" applications
Round, duplex and quad designs	 Perfect for in-wall and "behind- the-shelf" applications
Marked in feet and meters	• Meets commercial, government and international requirements for length markings
 BrakeBox[®] payout 	 Adjustable tension control on

RENEEITS

- control system

reel prevents over spin and entangling of cable



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							Maximum Tensile Loading		Minimum Bend Radius		
Listing	Part Number ¹	Configuration	Fiber Type	Fiber Count	Nominal Diameter in (mm)	Nominal Weight Ibs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)	Package
OFNR	33001x101	Round	Single Mode	1	0.11 (2.9)	6 (8)	50 (220)	15 (70)	1.7 (44)	1.1 (29)	Plywood reel
OFNR	A3001x101	Round	Single Mode	1	0.08 (2.0)	3 (4)	50 (220)	15 (70)	1.2 (30)	0.8 (20)	Plywood reel
OFNR	B3002x101	Zip	Single Mode	2	0.11 x 0.24 (2.9 x 6.2)	8 (12)	100 (440)	30 (130)	1.7 (44)	1.1 (29)	Plywood reel
OFNR	C3002x101	Zip	Single Mode	2	0.08 x 0.17 (2.0 x 4.2)	6 (9)	50 (220)	15 (70)	1.2 (30)	0.8 (20)	Plywood reel
OFNR	33002x1zz	Round	Single Mode	2	0.20 (5.0)	14 (21)	100 (440)	30 (130)	3.0 (75)	2.0 (50)	use key
OFNR	33004x1zz	Round	Single Mode	4	0.20 (5.0)	15 (23)	100 (440)	30 (130)	3.0 (75)	2.0 (50)	use key
OFNP	34001x101	Round	Single Mode	1	0.11 (2.9)	6 (9)	50 (220)	15 (70)	1.7 (44)	1.1 (29)	Plywood reel
OFNP	A4001x101	Round	Single Mode	1	0.08 (2.0)	3 (4)	50 (220)	15 (70)	1.2 (30)	0.8 (20)	Plywood reel
OFNP	B4002x101	Zip	Single Mode	2	0.11 x 0.24 (2.9 x 6.2)	8 (11)	100 (440)	30 (130)	1.7 (44)	1.1 (29)	Plywood reel
OFNP	C4002x101	Zip	Single Mode	2	0.08 x 0.17 (2.0 x 4.2)	6 (9)	50 (220)	15 (70)	1.2 (30)	0.8 (20)	Plywood reel
OFNP	34002x1zz	Round	Single Mode	2	0.17 (4.2)	12 (18)	100 (440)	30 (130)	2.5 (63)	1.7 (42)	use key
OFNP	34004x1zz	Round	Single Mode	4	0.17 (4.2)	13 (20)	100 (440)	30 (130)	2.5 (63)	1.7 (42)	use key
OFNR	33001yG01	Round	Multimode	1	0.11 (2.9)	6 (8)	50 (220)	15 (70)	1.7 (44)	1.1 (29)	Plywood reel
OFNR	A3001yG01	Round	Multimode	1	0.08 (2.0)	3 (4)	50 (220)	15 (70)	1.2 (30)	0.8 (20)	Plywood reel
OFNR	B3002yG01	Zip	Multimode	2	0.11 x 0.24 (2.9 x 6.2)	8 (12)	100 (440)	30 (130)	1.7 (44)	1.1 (29)	Plywood reel
OFNR	C3002yG01	Zip	Multimode	2	0.08 x 0.17 (2.0 x 4.2)	6 (9)	50 (220)	15 (70)	1.2 (30)	0.8 (20)	Plywood reel
OFNR	33002yGzz	Round	Multimode	2	0.20 (5.0)	14 (21)	100 (440)	30 (130)	3.0 (75)	2.0 (50)	use key
OFNR	33004yGzz	Round	Multimode	4	0.20 (5.0)	15 (23)	100 (440)	30 (130)	3.0 (75)	2.0 (50)	use key
OFNP	34001yG01	Round	Multimode	1	0.11 (2.9)	6 (9)	50 (220)	15 (70)	1.7 (44)	1.1 (29)	Plywood reel
OFNP	A4001yG01	Round	Multimode	1	0.08 (2.0)	3 (4)	50 (220)	15 (70)	1.2 (30)	0.8 (20)	Plywood reel
OFNP	B4002yG01	Zip	Multimode	2	0.11 x 0.24 (2.9 x 6.2)	8 (11)	100 (440)	30 (130)	1.7 (44)	1.1 (29)	Plywood reel
OFNP	C4002yG01	Zip	Multimode	2	0.08 x 0.17 (2.0 x 4.2)	6 (9)	50 (220)	15 (70)	1.2 (30)	0.8 (20)	Plywood reel
OFNP	34002yGzz	Round	Multimode	2	0.17 (4.2)	12 (18)	100 (440)	30 (130)	2.5 (63)	1.7 (42)	use key
OFNP	34004yGzz	Round	Multimode	4	0.17 (4.2)	13 (20)	100 (440)	30 (130)	2.5 (63)	1.7 (42)	use key

MULTIMODE OPTICAL FIBER TYPES

	Reduced	TeraFlex [®] Bend Resistant					
	Water Peak	G.657.A1	G.657.A2	G.657.B3			
¹ Replace "x" with:	3	К	J	L			
Standard Jacket Colors*		ow					

	TeraGain®	Laser	TeraGain Optimized	50/125	TeraFlex Bend Resistant Laser Optimized 50/125			
	62.5/125	10G/150	10G/300	10G/550	10G/150	10G/300	10G/550	
¹ Replace "y" with:	6	А	В	F	Μ	Ν	Р	
Standard Jacket Colors*	Orange	Aqua						

Rev 7/15 Ed 13.0

*Other jacket colors available upon request. See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

PACKAGING									
	Cut to Length Plywood Reel	1,000 ft BrakeBox	1,500 ft BrakeBox	2,000 ft BrakeBox					
¹ Replace "zz" with:	01	BB	BD	BC					

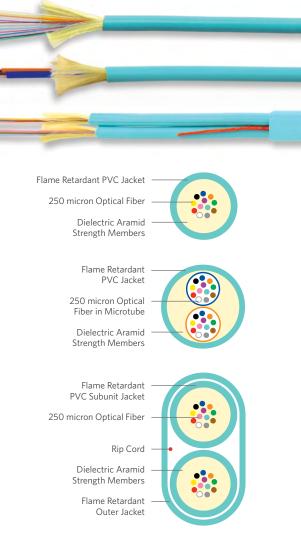
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Microarray Data Center Interconnect

OFNR/OFNP

SPECIFICATIONS



SPECIFICATIONS	
≤ 12-Fiber Configuration	250 micron optical fibers surrounded by dielectric aramid yarns in a 2 mm loose tube or a 3 mm loose tube
24-Fiber Configuration	Two microtubes containing twelve 250 micron optical fibers; the microtubes are surrounded by dielectric aramid yarns and enclosed in a single 3.8 mm loose tube
24-Fiber Duplex Configuration	Two 3 mm loose tubes containing twelve 250 micron optical fibers and dielectric aramid yarns; both tubes are enclosed in an overjacket
Jacket	OFNR: Flame retardant (FR) PVC OFNP: FR, low smoke PVC
Performance Compliance	UL 1651 CSA C22.2 No. 232 UL 1666 NFPA 262 Telcordia® GR-409-CORE, Issue 2 ANSI/ICEA S-83-596 ANSI/TIA-568-C.3
NRTL Programs	UL, c(UL) Listed OFNR UL, c(UL) Listed OFNP
Sustainability	UL Certified EPD HPD USGBC® Member RoHS-compliant/RoHS 2-compliant REACH-compliant

PRODUCT DESCRIPTION

FIRST MANUFACTURER IN THE INDUSTRY to offer products that contribute toward LEED!

The Microarray Data Center Interconnect Cables from Superior Essex are designed for high performance in a small package. The 2-fiber through 12-fiber premises loose tube interconnect has an outside diameter of only 2 mm or 3 mm. The 24-fiber single unit employs two, 12-fiber microtubes that are ideal for 24-fiber MTP®/MPO array connectors. The 24-fiber duplex contains two, 12-fiber 3 mm interconnect cables with an overjacket. The fibers can be fusion spliced, connectorized to high density MTP/MPO mechanical array connectors or attached to standard single ferrule mechanical connectors (LC, SC, ST, etc.) via a furcation kit. The loose fibers are surrounded by aramid yarns and a low smoke PVC (LSPVC) plenum or riser-rated jacket. Its small size allows for denser fiber routing than traditional tight buffered cables; its loose-tube construction gives it superior performance and installation ease compared to ribbon interconnect cable.

APPLICATIONS

- 10 Gb, 40 Gb, 100 Gb Ethernet and legacy speeds
- Data centers
- High density installations
- MTP/MPO array connectors

FEATURES

UL [®] Certified Environmental Product Declaration (EPD)	•	Contributes toward 1 LEED point under the Material and Resources credit (MRc)
 Health Product Declaration[™] (HPD[™]) 	•	Contributes toward 1 LEED point under the MRc
• 2 mm loose tube or 3 mm loose tube interconnect with two through twelve 250 micron fibers	•	Allows for direct connection to MTP/MPO array connectors
• 3.8 mm loose tube interconnect with two, 12-fiber microtubes	•	Allows for direct connection to 24-fiber MTP/MPO array connectors
Meets or exceeds ANSI/ICEA S-83-596 and GR-409-CORE requirements for interconnect cable	•	Worry-free installation and performance
 Plenum (OFNP) and riser (OFNR) rated designs 	•	Fire-listed cables allow placement in plenum and riser spaces
 Available with TeraFlex single mode, and laser-optimized 50/125 micron multimode fiber types 	•	Build your network with the fiber type that you need now or for the future

BENEFITS

- Marked in feet and meters
 M
 go
- Designed for MTP/MPO connectors
- Meets commercial and government requirements for length markings
- Economical plug and play solution

ENVIRONMENTAL SPECIFICATIONS

Riser	Plenum
-20°C to +70°C	0°C to +70°C
-40°C to +75°C	-40°C to +75°C
10°C to +60°C	10°C to +60°C
	Riser -20°C to +70°C -40°C to +75°C 10°C to +60°C



					Maximum Tensile Loading		Minimum I	Minimum Bend Radius	
Listing	Part Number ¹	Fiber Count	Nominal Diameter in (mm)	Nominal Weight lbs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)	Package
OFNR	P3002xx01	2	0.12 (3.0)	5 (8)	80 (370)	25 (110)	1.8 (47)	1.2 (30)	Plywood ree
OFNR	P3004xx01	4	0.12 (3.0)	5 (8)	80 (370)	25 (110)	1.8 (47)	1.2 (30)	Plywood ree
OFNR	P3006xx01	6	0.12 (3.0)	5 (8)	80 (370)	25 (110)	1.8 (47)	1.2 (30)	Plywood ree
OFNR	P3008xx01	8	0.12 (3.0)	5 (8)	80 (370)	25 (110)	1.8 (47)	1.2 (30)	Plywood ree
OFNR	P3012xx01	12	0.12 (3.0)	5 (8)	80 (370)	25 (110)	1.8 (47)	1.2 (30)	Plywood ree
OFNR	P3024xxA1	24	0.17 x 0.29 (4.4 x 7.5)	22 (33)	150 (668)	25 (110)	6.0 (152)	3.0 (76)	Plywood ree
OFNP	V4002xx01	2	0.08 (2.0)		50 (220)	15 (70)	1.2 (30)	0.8 (20)	Plywood ree
OFNP	P4002xx01	2	0.12 (3.0)	6 (9)	80 (370)	25 (110)	1.8 (47)	1.2 (30)	Plywood ree
OFNP	V4004xx01	4	0.08 (2.0)		50 (220)	15 (70)	1.2 (30)	0.8 (20)	Plywood ree
OFNP	P4004xx01	4	0.12 (3.0)	6 (9)	80 (370)	25 (110)	1.8 (47)	1.2 (30)	Plywood ree
OFNP	V4006xx01	6	0.08 (2.0)		50 (220)	15 (70)	1.2 (30)	0.8 (20)	Plywood ree
OFNP	P4006xx01	6	0.12 (3.0)	6 (9)	80 (370)	25 (110)	1.8 (47)	1.2 (30)	Plywood ree
OFNP	V4008xx01	8	0.08 (2.0)		50 (220)	15 (70)	1.2 (30)	0.8 (20)	Plywood ree
OFNP	P4008xx01	8	0.12 (3.0)	6 (9)	80 (370)	25 (110)	1.8 (47)	1.2 (30)	Plywood ree
OFNP	V4012xx01	12	0.08 (2.0)		50 (220)	15 (70)	1.2 (30)	0.8 (20)	Plywood ree
OFNP	P4012xx01	12	0.12 (3.0)	6 (9)	80 (370)	25 (110)	1.8 (47)	1.2 (30)	Plywood ree
OFNP	P4024xxC1	24	0.15 (3.8)	8 (12)	80 (370)	25 (110)	3.0 (76)	1.5 (38)	Plywood ree
OFNP	P4024xxA1	24	0.17 x 0.29 (4.4 x 7.5)	25 (37)	150 (668)	25 (110)	6.0 (152)	3.0 (76)	Plywood ree

	TeraFlex [®] Bend Resistant				Laser	TeraGain® Laser Optimized 50/125		TeraFlex Bend Resistant Laser Optimized 50/125		
	G.657.A1	G.657.A2	G.657.B3		10G/150	10G/300	10G/550	10G/150	10G/300	10G/550
¹ Replace "xx" with:	K1	J1	L1	¹ Replace "xx" with:	AG	BG	FG	MG	NG	PG
Standard Jacket Colors*	Yellow		Standard Jacket Colors*		Aqua					

*Other jacket colors available upon request. See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.



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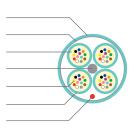
INDEX



A-5

2 mm Microarray Breakout OFNP

Flame Retardant Outer Jacket Binder Yarns and/or Tapes Dielectric Aramid Strength Members Central Strength Member 250 micron Optical Fiber Flame Retardant Subunit Jacket Rip Cord



PRODUCT DESCRIPTION

APPLICATIONS

 Data centers Trunk applications High density installations MTP/MPO array connectors

FEATURES

(HPD™)

FIRST MANUFACTURER IN THE INDUSTRY

The 2 mm Microarray Breakout cable from Superior Essex is designed for high performance in a small package. The premises loose tube design

consists of 12-fiber 2 mm microarray interconnect cable subunits, each of

allow the subunit to be crimped directly onto an MTP®/MPO connector.

The 2 mm subunits are stranded around a central strength element that is

both flexible and robust enough to pass backbone installation requirements. The stranded subunits are held to the strength element core by binder yarns

and/or tapes ensuring excellent temperature performance. Finally, a RoHS-

BENEFITS

Contributes toward 1 LEED

Contributes toward 1 LEED

12-fiber array connectors

Worry-free installation

Meets NEC requirements

and performance

the future

point under the MRc

point under the Material and Resources credit (MRc)

Connects directly to MTP/MPO

Build your network with the fiber

type that you need now or for

compliant flexible jacket protects the core from the rigors of installation while providing plenum fire protection. The cable is available with TeraFlex® single mode, and TeraFlex laser-optimized 50/125 micron 10G/150 (OM2+), 10G/300 (OM3) and 10G/550 (OM4) multimode fiber types.

• 10 Gb, 40 Gb, 100 Gb Ethernet and legacy speeds

Outside plant (OSP) to premises transitions

• UL® Certified Environmental

Product Declaration (EPD)

Health Product Declaration™

12-fiber 2 mm loose tube

interconnect subunits

ICEA 83-596-2001 and

GR-409-CORE requirements for interconnect subunits and

Plenum (OFNP) rated design

Available with TeraFlex single

mode, and TeraFlex laser-

optimized 50/125 micron

multimode fiber types

Meets or exceeds

trunk cable

.

which contain twelve 250 micron fibers. The aramid yarns inside the subunit

SPECIFICATIONS					
Subunit Configuration	2 mm Simplex loose tube cable with twelve 250 micron optical fibers surrounded by dielectric aramid strength members				
Cable Configuration	2 mm loose tube subunits around a central strength member and surrounded by polyester yarns and an outer jacket				
Subunit Marking	Unit 1, Unit 2, Unit 3, Unit 4				
Central Strength Element	Glass Reinforced Plastic (GRP)				
Subunit/Outer Jacket	Flame retardant, low smoke PVC				
Performance Compliance	UL 1651 CSA C22.2 No. 232 NFPA 262 Telcordia® GR-409-CORE, Issue 2 ANSI/ICEA S-83-596 ANSI/TIA-568-C.3				
NRTL Programs	UL, c(UL) Listed OFNP				
Sustainability	UL Certified EPD HPD USGBC® Member RoHS-compliant/RoHS 2-compliant REACH-compliant				

ENVIRONMENTAL SPECIFICATIONS Operation 0°C to +70°C -40°C to +75°C Storage/Shipping Installation 10°C to +60°C

PART NUMBERS AND PHYSICAL CHARACTERISTICS

		Nominal	Nominal		nal Maximum Tensile Loading		Minimum E	Minimum Bend Radius		
Part Number ¹	Fiber Count	Diameter in (mm)	Nominal Weight Ibs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)	Package		
V4024xxB1	24	0.26 (6.5)	29 (43)	150 (660)	45 (200)	3.8 (98)	2.6 (65)	Plywood reel		
V4036xxB1	36	0.26 (6.5)	29 (43)	150 (660)	45 (200)	3.8 (98)	2.6 (65)	Plywood reel		
V4048xx01	48	0.26 (6.5)	29 (43)	150 (660)	45 (200)	3.8 (98)	2.6 (65)	Plywood reel		
V4072xx01	72	0.31 (7.9)	32 (47)	300 (1,334)	90 (400)	4.7 (119)	3.1 (79)	Plywood reel		
V4096xx01	96	0.36 (9.2)	44 (66)	300 (1,334)	90 (400)	5.4 (138)	3.6 (92)	Plywood reel		
V4144xx01	144	0.47 (12.0)	101 (152)	300 (1,334)	90 (400)	7.0 (180)	4.7 (120)	Plywood reel		

SINGLE MODE OPTICAL FIBER TYPES					MULTIMODE OPTICAL FIBER	R TYPES		
	Ter	TeraFlex [®] Bend Resistant				TeraFlex Bend Resistant Laser Optimized 50/		
	G.657.A1	G.657.A2	G.657.B3			10G/150	10G/300	10G/550
¹ Replace "xx" with:	Kl	J1	L1		¹ Replace "xx" with:	MG	NG	PG
Standard Jacket Colors	*	Yellow			Standard Jacket Colors*		Aqua	

*Other jacket colors available upon request. See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

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SuperiorEssex.com

Interlock Armored, 2mm Microarray Breakout

PRODUCT DESCRIPTION

FIRST MANUFACTURER IN THE INDUSTRY

The Interlock Armored Microarray Breakout cable from Superior Essex is designed for high performance with robust mechanical protection. The premises loose tube design consists of 12-fiber 2 mm microarray interconnect cable subunits, each of which contain twelve 250 micron fibers. The aramid yarns inside the subunit allow the subunit to be crimped directly onto an MTP®/MPO connector. The 2 mm subunits are stranded around a central strength element that is both flexible and robust enough to pass backbone installation requirements. The stranded subunits are held to the strength element core by binder yarns and/or tapes ensuring excellent temperature performance. A RoHS-compliant flexible jacket protects the core while providing fire protection. Finally, the cable is interlock armored with either aluminum (standard) or steel and jacketed.

APPLICATIONS

- 10 Gb, 40 Gb, 100 Gb Ethernet and legacy speeds
- · Data centers and other high density installations
- Trunk applications
- MTP/MPO array connectors
- Outside plant (OSP) to premises transitions

FEATURES

trunk cable Interlock armor

Plenum (OFCP) rated design

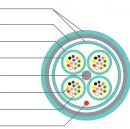
UL[®] Certified Environmental Contributes toward 1 LEED Product Declaration (EPD) point under the Material and Resources credit (MRc) Health Product Declaration™ Contributes toward 1 LEED . (HPD™) point under the MRc 12-fiber 2 mm loose tube Connects directly to MTP/MPO interconnect subunits 12-fiber array connectors Meets or exceeds Worry-free installation ICEA 83-596-2001 and and performance GR-409-CORE requirements for interconnect subunits and

BENEFITS

- Provides exceptional mechanical protection and crush resistance
- Meets NEC requirements



Flame Retardant Outer Jackets Aluminum or Steel Interlock Armor Binder Yarns and/or Tapes Flame Retardant Subunit Jacket Central Strength Member 250 micron Optical Fiber Dielectric Aramid Strength Members Rip Cord



SPECIFICATIONS

Subunit Configuration	2 mm simplex loose tube cable with twelve 250 micron optical fibers surrounded by dielectric aramid strength members
Cable Configuration	2 mm loose tube subunits around a central strength member and surrounded by polyester yarns and an outer jacket
Subunit Marking	Unit 1, Unit 2, Unit 3, Unit 4
Central Strength Element	Glass Reinforced Plastic (GRP) covered with a PVC jacket
Subunit/Cable/Outer Jacket	Flame retardant (FR), LSPVC
Armor	Flexible, heavy duty interlocking aluminum (standard) or steel tape helically applied over the inner cable core; further protection is provided by a FR outer jacket
Performance Compliance	UL 1651 CSA C22.2 No. 232 UL 910 NFPA 262 Telcordia® GR-409-CORE, Issue 2 ANSI/ICEA S-83-596 ANSI/TIA-568-C.3
NRTL Programs	UL, c(UL) Listed OFCP
Sustainability	UL Certified EPD HPD USGBC® Member RoHS-compliant/RoHS 2-compliant REACH-compliant

ENVIRONMENTAL SPECIFICATIONS

Operation	0°C to +70°C
Storage/Shipping	-40°C to +70°C
Installation	10°C to +60°C

PART NUMBERS AND PHYSICAL CHARACTERISTICS

		Nominal		Maximum Te	nsile Loading	Minimum I	Minimum Bend Radius		
Part Number ¹	Fiber Count	Diameter in (mm)	Nominal Weight Ibs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)	Package	
L4024xVB1	24	0.56 (14.2)	117 (174)	150 (660)	45 (200)	8.4 (212)	5.6 (142)	Reel	
L4036xVB1	36	0.56 (14.2)	117 (174)	150 (660)	45 (200)	8.4 (212)	5.6 (142)	Reel	
L4048xV01	48	0.56 (14.2)	117 (174)	150 (660)	45 (200)	8.4 (212)	5.6 (142)	Reel	
L4072xV01	72	0.60 (15.3)	147 (220)	300 (1,320)	90 (400)	9.0 (230)	6.0 (153)	Reel	
L4096xV01	96	0.69 (17.4)	178 (266)	300 (1,320)	90 (400)	10.3 (261)	6.9 (174)	Reel	
L4144xV01	144	0.78 (19.7)	245 (365)	300 (1,320)	90 (400)	11.6 (294)	7.8 (197)	Reel	

SINGLE MODE OPTICAL FIBER TYPES				MULTIN	ODE OPTICAL FIBER	TYPES		
TeraFlex [®] Bend Resistant					TeraFlex Bend R	esistant Laser Op	otimized 50/125	
	G.657.A1	G.657.A2	G.657.B3			10G/150	10G/300	10G/550
¹ Replace "x" with:	К	J	L	1F	Replace "x" with:	Μ	Ν	Р
Standard Jacket Colors*		Yellow		Stand	dard Jacket Colors*		Aqua	

*Other jacket colors available upon request. See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications MTP is a registered trademark of US Conec Ltd. UL is a registered trademark of UL LLC. Health Product Declaration and HPD are trademarks of Health Product Declaration Collaborative. Telcordia is a registered trademark of Ericsson Inc. USGBC is a registered trademark of U.S. Green Building Council.

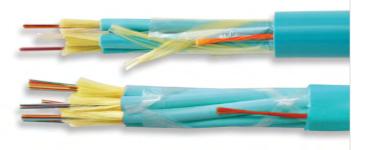
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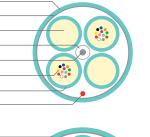


A-7

OFNR/OFNP



Flame Retardant Outer Jacket Binder Yarns and/or Tapes Dielectric Aramid Strength Members PVC Jacket Central Strength Member 250 micron Optical Fiber Flame Retardant Subunit Jacket Rip Cord



Flame Retardant Outer Jacket Binder Yarns and/or Tapes Flame Retardant Subunit Jacket PVC Jacket Central Strength Member 250 micron Optical Fiber Dielectric Aramid Strength Members Rip Cord

SPECIFICATIONS	
Subunit Configuration	3 mm Simplex loose tube cable with twelve 250 micron optical fibers surrounded by dielectric aramid strength members
Cable Configuration	3 mm loose tube subunits around a central strength member and surrounded by polyester yarns and an outer jacket
Subunit Marking	Unit 1, Unit 2, Unit 3, Unit 4
Central Strength Element	Glass Reinforced Plastic (GRP) covered with a PVC jacket
Subunit/Outer Jacket	OFNR: Flame retardant (FR) PVC OFNP: FR, low smoke PVC
Performance Compliance	UL 1651 CSA C22.2 No. 232 UL 1666 NFPA 262 Telcordia® GR-409-CORE, Issue 2 ANSI/ICEA S-83-596 ANSI/TIA-568-C.3
NRTL Programs	UL, c(UL) Listed OFNR UL, c(UL) Listed OFNP
Sustainability	UL Certified EPD HPD USGBC® Member RoHS-compliant/RoHS 2-compliant REACH-compliant

Riser Plenum Operation -20°C to +70°C 0°C to +70°C Storage/Shipping -40°C to +75°C -40°C to +75°C Installation 10°C to +60°C 10°C to +60°C

PRODUCT DESCRIPTION

FIRST MANUFACTURER IN THE INDUSTRY to offer products that contribute toward LEED!

The 3 mm Microarray Breakout cable from Superior Essex is designed for high performance in a small package. The premises loose tube design consists of 12-fiber 3 mm microarray interconnect cable subunits, each of which contain twelve 250 micron fibers. The aramid yarns inside the subunit allow the subunit to be crimped directly onto an MTP®/MPO connector. The 3 mm subunits are stranded around a central strength element that is both flexible and robust enough to pass backbone installation requirements. The stranded subunits are held to the strength element core by binder yarns and/or tapes ensuring excellent temperature performance. Finally, a RoHS-compliant flexible jacket protects the core from the rigors of installation while providing riser or plenum fire protection. The cable is available with TeraFlex® single mode, and laser-optimized 50/125 micron 10G/150 (OM2+), 10G/300 (OM3) and 10G/550 (OM4) multimode fiber types.

APPLICATIONS

- 10 Gb, 40 Gb, 100 Gb Ethernet and legacy speeds
- Data centers
- Trunk applications
- High density installations
- MTP/MPO array connectors
- Outside plant (OSP) to premises transitions

FEATURES

TENTORES	BENEITIS
 UL[®] Certified Environmental Product Declaration (EPD) 	 Contributes toward 1 LEED point under the Material and Resources credit (MRc)
 Health Product Declaration[™] (HPD[™]) 	 Contributes toward 1 LEED point under the MRc
 12-fiber 3 mm loose tube interconnect subunits 	 Connects directly to MTP/MPO 12-fiber array connectors
• Meets or exceeds ICEA 83-596-2001 and GR-409-CORE requirements for interconnect subunits and trunk cable	 Worry-free installation and performance
 Plenum (OFNP) and riser (OFNR) rated designs 	 UL listed cables meet NEC requirements
• Available with TeraFlex single mode, and laser-optimized 50/125 micron multimode fiber types	 Build your network with the fiber type that you need now or for the future
SUSTAINABILITY LEADERSHIP	
Published HPD	

BENEFITS



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			Nominal		Maximum Te	nsile Loading	Minimum E	end Radius	
Listing Part Number ¹ Fiber Count	Diameter in (mm)	Nominal Weight Ibs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)	Package		
OFNR	P3024xxB1	24	0.42 (10.8)	60 (90)	150 (710)	45 (198)	7.0 (180)	3.5 (90)	Plywood ree
OFNR	P3036xxB1	36	0.42 (10.8)	60 (90)	150 (710)	45 (198)	7.0 (180)	3.5 (90)	Plywood re
OFNR	P3048xx01	48	0.42 (10.8)	61 (91)	150 (710)	45 (198)	8.2 (210)	4.1 (105)	Plywood re
OFNR	P3072xx01	72	0.50 (12.6)	89 (133)	150 (710)	45 (198)	10.0 (252)	5.0 (126)	Plywood re
OFNR	P3096xx01	96	0.57 (14.5)	121 (180)	300 (1,420)	90 (396)	11.4 (290)	6.0 (152)	Plywood re
OFNR	P3144xx01	144	0.69 (17.6)	198 (295)	300 (1,420)	90 (396)	13.8 (350)	6.9 (175)	Plywood re
OFNP	P4024xxB1	24	0.35 (8.8)	54 (81)	150 (710)	45 (198)	5.2 (132)	3.5 (88)	Plywood re
OFNP	P4036xxB1	36	0.35 (8.8)	54 (81)	150 (710)	45 (198)	5.2 (132)	3.5 (88)	Plywood re
OFNP	P4048xx01	48	0.35 (8.8)	55 (82)	150 (710)	45 (198)	5.2 (132)	3.5 (88)	Plywood re
OFNP	P4072xx01	72	0.43 (10.9)	81 (120)	150 (710)	45 (198)	6.5 (164)	4.3 (109)	Plywood re
OFNP	P4096xx01	96	0.51 (13.0)	121 (180)	300 (1,420)	90 (396)	11.4 (290)	6.0 (152)	Plywood re
OFNP	P4144xx01	144	0.69 (17.6)	227 (336)	300 (1,420)	90 (396)	13.8 (350)	6.9 (175)	Plywood re

SINGLE MODE OPTICAL FIBER TYPES			MULTIMO	MULTIMODE OPTICAL FIBER TYPES				
TeraFlex [®] Bend Resistant					TeraFlex Bend Resistant Laser Optimized 50/1			
	G.657.A1	G.657.A2	G.657.B3			10G/150	10G/300	10G/550
¹ Replace "xx" with:	К1	J1	L1	¹ Rep	blace "xx" with:	MG	NG	PG
Standard Jacket Colors*		Yellow		Standa	rd Jacket Colors*		Aqua	
*Other is shet as low as silehile was a sec	4							

*Other jacket colors available upon request. See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

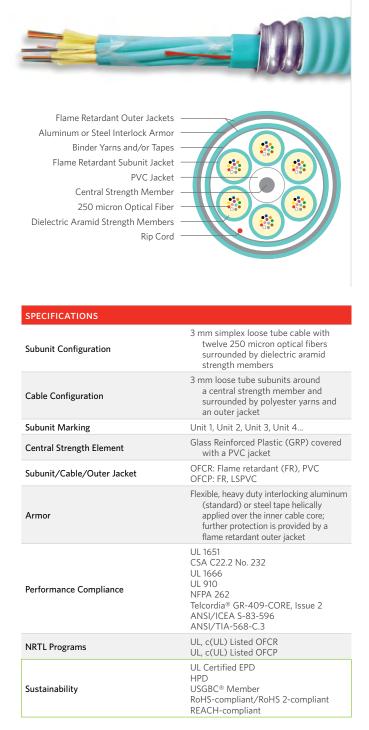
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A-9

Interlock Armored, 3 mm Microarray Breakout

OFCR/OFCP



ENVIRONMENTAL SPECIFICATIONS

	Riser	Plenum
Operation	-20°C to +70°C	0°C to +70°C
Storage/Shipping	-40°C to +75°C	-40°C to +70°C
Installation	10°C to +60°C	10°C to +60°C

PRODUCT DESCRIPTION

FIRST MANUFACTURER IN THE INDUSTRY to offer products that contribute toward LEED!

The Interlock Armored Microarray Breakout cable from Superior Essex is designed for high performance with robust mechanical protection. The premises loose tube design consists of 12-fiber 3 mm microarray interconnect cable subunits, each of which contain twelve 250 micron fibers. The aramid yarns inside the subunit allow the subunit to be crimped directly onto an MTP®/MPO connector. The 3 mm subunits are stranded around a central strength element that is both flexible and robust enough to pass backbone installation requirements. The stranded subunits are held to the strength element core by binder yarns and/or tapes ensuring excellent temperature performance. A RoHS-compliant flexible jacket protects the core while providing fire protection. Finally, the cable is interlock armored with either aluminum (standard) or steel and jacketed. The cable is available with TeraFlex® single mode or laser-optimized 50/125 micron 10G/150 (OM2+), 10G/300 (OM3) or 10G/550 (OM4) multimode fiber types.

APPLICATIONS

- 10 Gb, 40 Gb, 100 Gb Ethernet and legacy speeds
- Data centers
- Trunk applications
- High density installations
- MTP/MPO array connectors
- Outside plant (OSP) to premises transitions

FEATURES BENEFITS • UL® Certified Environmental Product Declaration (EPD) • Contributes toward 1 LEED point under the Material and Resources credit (MRc) • Health Product Declaration™ • Contributes toward 1 LEED

- Health Product Declaration[™] (HPD[™])
- 12-fiber 3 mm loose tube
 interconnect subunits
- Meets or exceeds ICEA 83-596-2001 and GR-409-CORE requirements for interconnect subunits and trunk cable
- Interlock armor
- Riser (OFCR) and plenum (OFCP) rated designs
- Available with TeraFlex single mode and TeraFlex laseroptimized 50/125 micron multimode bend-insensitive fiber types
- Provides exceptional mechanical protection and crush resistance

Connects directly to MTP/MPO

 UL listed cables meet NEC requirements

point under the MRc

12-fiber array connectors

Worry-free installation

and performance

 Build your network with the fiber type that you need now or for the future

SUSTAINABILITY LEADERSHIP



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Interlock Armored, 3 mm Microarray Breakout OFCR/OFCP

			Nominal		Maximum Te	nsile Loading	Minimum E		
Listing	Part Number ¹	Fiber Count	Diameter in (mm)	Nominal Weight Ibs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)	Package
OFCR	L3024xPB1	24	0.77 (19.6)	195 (291)	150 (670)	50 (200)	11.6 (294)	7.7 (196)	Reel
OFCR	L3036xPB1	36	0.77 (19.6)	195 (291)	150 (670)	50 (200)	11.6 (294)	7.7 (196)	Reel
OFCR	L3048xP01	48	0.77 (19.6)	196 (293)	150 (670)	50 (200)	11.6 (294)	7.7 (196)	Reel
OFCR	L3072xP01	72	0.87 (22.0)	248 (370)	150 (670)	50 (200)	13.0 (330)	8.7 (220)	Reel
OFCR	L3096xP01	96	0.95 (24.2)	290 (432)	300 (1,340)	90 (400)	14.3 (363)	9.5 (242)	Reel
OFCR	L3144xP01	144	1.08 (27.4)	424 (632)	300 (1,340)	90 (400)	16.2 (411)	10.8 (274)	Reel
OFCP	L4024xPB1	24	0.77 (19.6)	195 (291)	150 (670)	50 (200)	11.6 (294)	7.7 (196)	Reel
OFCP	L4036xPB1	36	0.77 (19.6)	195 (291)	150 (670)	50 (200)	11.6 (294)	7.7 (196)	Reel
OFCP	L4048xP01	48	0.77 (19.6)	196 (293)	150 (670)	50 (200)	11.6 (294)	7.7 (196)	Reel
OFCP	L4072xP01	72	0.87 (22.0)	248 (370)	150 (670)	50 (200)	13.0 (330)	8.7 (220)	Reel
OFCP	L4096xP01	96	0.95 (24.2)	290 (432)	300 (1,340)	90 (400)	14.3 (363)	9.5 (242)	Reel
OFCP	L4144xP01	144	1.08 (27.4)	424 (632)	300 (1,340)	90 (400)	16.2 (411)	10.8 (274)	Reel

SINGLE MODE OPTICAL FIBE	R TYPES			MULTIMODE OPTICAL FIBER TYPES				
	TeraFlex [®] Bend Resistant				TeraFlex Bend F	Resistant Laser O	ptimized 50/125	
	G.657.A1	G.657.A2	G.657.B3		10G/150	10G/300	10G/550	
¹ Replace "x" with:	К	J	L	¹ Replace "x" with:	Μ	Ν	Р	
Standard Jacket Colors*		Yellow		Standard Jacket Colors*		Aqua		
	4							

*Other jacket colors available upon request. See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.



OFNR/OFNP

Flame Retardant, Chemical and

Sunlight Resistant Jacket

Optical Fiber

Rip Cord

Flame Retardant PVC Jacket

Water-Blocking Dielectric

Strength Members

SPECIFICATIONS

2 - 12 Fiber Single Unit Configuration	3 mm central tube containing 2 to 12, 250 μm fibers and water-blocking aramid yarns surrounded by a flame retardant PVC jacket; the central tube is surrounded by additional water-blocking glass yarns and an outer jacket
Subunit Strength Elements	Water-blocking aramid yarns
Subunit Jacket	Flame retardant (FR) PVC
Strength Elements	Water-blocking glass yarns
Outer Jacket	Riser: Black, FR, chemical and sunlight resistant PVC Plenum: Black, FR, chemical and sunlight resistant fluoropolymer
Performance Compliance	UL 1651 CSA C22.2 No. 232 UL 1666 NFPA 262 ANSI/ICEA S-83-596 ANSI/ICEA S-104-696 ANSI/TIA-568-C.3 RoHS-compliant
NRTL Programs	UL, c(UL) Listed OFNR/OFNP UL, c(UL) Listed Sunlight Resistant

ENVIRONMENTAL SPECIFICATIONS	;
Operation	-40°C to +75°C
Storage/Shipping	-40°C to +75°C
Installation	0°C to +65°C

PRODUCT DESCRIPTION

The Dry Block, Sunlight Resistant Indoor/Outdoor Loose Tube riser and plenum rated cable lines offer the system designer the smallest form factor in a premises indoor/outdoor optical fiber cable. The cables can be installed in open spaces, trays, conduits, inner-ducts, trenches, steam tunnels and building riser or plenum locations. The cables incorporate the latest in dry water-blocking technology which eliminates the need to clean off the traditional gel-based water-blocking compounds. In the single unit design, a 3 mm central tube contains 2 to 12, 250 µm fibers and water-blocking aramid yarns. The tube is surrounded by additional water-blocking glass strength elements and an outer jacket, comprised of a rugged UL Listed, sunlight resistant, black polymer that allows for the cable to be exposed to long-term direct sunlight without the concern of material degradation. All fiber types are available, including 50/125 µm, $62.5/125 \,\mu\text{m}$ and single mode.

APPLICATIONS

FEATURES

• Intra/inter-building backbones, such as conduit pathways or tunnels

BENEFITS

Conduit/duct/tray pathways .

• Tube color indicates fiber type

Dry or wet locations

LEXT ONCES	BEITEITIS
• Exceeds ANSI/TIA-568-C.3 optical performance	• Future-proof fiber performance for current and future multi- gigabit applications
 Dry-block design meets Telcordia ANSI/ICEA S-104-696 water-block requirements 	 Cable integrity maintained even if damage occurs to protective layers
• 3 mm subunit	 Attaches directly to MTP[®] or MPO mechanical connectors
UL/NEC Listed OFNR/OFNP	• Eliminates the need to purchase separate cables for OSP and indoor/riser or plenum applications
All dielectric	 No additional grounding materials need to be purchased
 Jacket rip cord 	Saves time in cable preparation
 Black, UL Listed sunlight resistant outer jacket 	 Long periods of direct sunlight exposure will not damage cable
BrakeBox [®] payout control system	 Adjustable tension control on reel prevents over spin and entangling of cable

. Quickly identifies the fiber type without searching for the jacket print





PART NU	MBER KEY														
F	3 or 4	6	0	-	_	_	_	U	х	х	-	Е	у	У	1
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Fiber cable	Listing	Cable	e type	-	Fiber count (002-012)		Fiber type			-	Jacket color	Pac	kage	Jacket print	

Contact Customer Service for availability of non-standard offerings.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

			Nominal		Maximum Te	nsile Loading	Minimum	Bend Radius	
Listing	Part Number ¹	Fiber Count	Diameter in (mm)	Nominal Weight Ibs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)	Package ¹
OFNR	F360-002Uxx-Eyy1	2	0.24 (6.1)	22 (32)	300 (1,340)	90 (400)	3.6 (88)	2.4 (60)	use key
OFNR	F360-004Uxx-Eyy1	4	0.24 (6.1)	23 (34)	300 (1,340)	90 (400)	3.6 (88)	2.4 (60)	use key
OFNR	F360-006Uxx-Eyy1	6	0.24 (6.1)	23 (34)	300 (1,340)	90 (400)	3.6 (88)	2.4 (60)	use key
OFNR	F360-008Uxx-Eyy1	8	0.24 (6.1)	23 (34)	300 (1,340)	90 (400)	3.6 (88)	2.4 (60)	use key
OFNR	F360-012Uxx-Eyy1	12	0.24 (6.1)	23 (34)	300 (1,340)	90 (400)	3.6 (88)	2.4 (60)	use key
OFNP	F460-002Uxx-Eyy1	2	0.23 (5.8)	27 (41)	300 (1,340)	90 (400)	3.5 (87)	2.3 (58)	use key
OFNP	F460-004Uxx-Eyy1	4	0.23 (5.8)	28 (42)	300 (1,340)	90 (400)	3.5 (87)	2.3 (58)	use key
OFNP	F460-006Uxx-Eyy1	6	0.23 (5.8)	28 (42)	300 (1,340)	90 (400)	3.5 (87)	2.3 (58)	use key
OFNP	F460-008Uxx-Eyy1	8	0.23 (5.8)	28 (42)	300 (1,340)	90 (400)	3.5 (87)	2.3 (58)	use key
OFNP	F460-012Uxx-Eyy1	12	0.23 (5.8)	28 (42)	300 (1,340)	90 (400)	3.5 (87)	2.3 (58)	use key

FIBER TYPES / JACKET COLOR:	SINGLE MO	DE			MULTIMODE				
	Reduced	Tera	Flex® Bend Resis	stant	TeraGain®	TeraFlex Bend Resistant Laser Optimized 50/125			
Water Pe		G.657.A1	G.657.A2	G.657.B3	62.5/125	10G/150	10G/300	10G/550	
¹ Replace "xx" with:	10	13	14	15	23	28	30	32	
Indoor/Outdoor Jacket Color	Black			Black					

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

PACKAGING:		
	Cut to Length Plywood Reel	1,000 ft BrakeBox
¹ Replace "yy" with:	99	A5

Rev 9/15 Ed 13.1



A-13

Breakout

Flame Retardant

PVC Outer Jacket

900 µm Tight Buffered Optical Fiber

2.0 mm Interconnect

Cable Subunit

Dielectric Aramid

Strength Members Rip Cord

Central Strength Member

OFNR

SPECIFICATIONS	
Configuration	2.0 mm subunits surrounding a central strength element with overall jacket
Subunit Configuration	2.0 mm simplex with 900 micron tight buffered fiber and aramid yarns
Subunit Marking	Unit 1, Unit 2, etc.
Strength Elements	Glass Reinforced Plastic (GRP) central strength element with PVC jacket
Jacket	Yellow, flame retardant (FR) PVC
Performance Compliance	UL 1651 CSA C22.2 No. 232 UL 1666 Telcordia® GR-409-CORE, Issue 2 ANSI/ICEA S-83-596 ANSI/TIA-568-C.3
NRTL Programs	UL, c(UL) Listed OFNR
Sustainability	UL Certified EPD HPD USGBC® Member RoHS-compliant/RoHS 2-compliant REACH-compliant

PRODUCT DESCRIPTION

FIRST MANUFACTURER IN THE INDUSTRY

The optical fiber Breakout Cable from Superior Essex is designed with Central Office (CO) connectivity in mind. The cable consists of 2 mm interconnect cable subunits surrounding a central strength element. The subunits are surrounded by aramid yarns and a flame retardant PVC riserrated jacket, and each is ideally suited to be attached to small form factor connectors. The cable is available in 6, 12 and 24-fiber count configurations.

APPLICATIONS

Central Office (CO)

FFATURES

FE	ATURES	BE	INEFITS
•	UL® Certified Environmental Product Declaration (EPD)	•	Contributes toward 1 LEED point under the Material and Resources credit (MRc)
•	Health Product Declaration™ (HPD™)	•	Contributes toward 1 LEED point under the MRc
•	2.0 mm simplex interconnect subunits	•	Connects directly to small form factor connectors, like the LC
•	Meets or exceeds ICEA S-83-596 and GR-409-CORE	•	Worry-free installation and performance

• Riser (OFNR) rated designs · Fire-listed cables allow placement in riser spaces

ENVIRONMENTAL SPECIFICATIONS

requirements for interconnect

subunits and cable

Operation	-20°C to +70°C
Storage/Shipping	-40°C to +75°C
Installation	10°C to +60°C

PART NUMBERS AND PHYSICAL CHARACTERISTICS Maximum Tensile Loading Minimum Bend Radius Nominal Nominal Weight Install Long Term Diameter Install Long Term Listing Part Number Fiber Count in (mm) lbs/kft (kg/km) lbs (N) lbs (N) in (mm) in (mm) Package OFNR T30063201 6 0.34 (8.8) 45 (66) 150 (660) 45 (200) 5.2 (132) 3.4 (88) Plywood reel OFNR T30123201 12 0.43 (11.0) 64 (95) 150 (660) 45 (200) 6.5 (165) 4.3 (110) Plywood reel OFNR T30243201 24 0.58 (14.8) 122 (181) 300 (1,320) 90 (400) 8.7 (222) 5.8 (148) Plywood reel





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www.nCompass-systems.com

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800.551.8948 SuperiorEssex.com



OFNR/OFNP

סוב בדידם אווסבובככ דברנו ואבר



SPECIFICATIONS	
6-12 Fiber Configuration	Flexible 900 μm tight buffered fibers, dielectric aramid yarns and overall jacket
18-24 Fiber Configuration	Band marked flexible 900 μm tight buffered fibers, dielectric aramid yarns, overall jacket and central strength element
Jacket	OFNR: Flame retardant (FR) PVC OFNP: FR, low smoke PVC
Performance Compliance	UL 1651 CSA C22.2 No. 232 UL 1666 NFPA 262 Telcordia® GR-409, Issue 1 Telcordia GR-409, Issue 2 ANSI/ICEA S-83-596 ANSI/TIA-568-C.3
NRTL Programs	UL, c(UL) Listed OFNR UL, c(UL) Listed OFNP
Sustainability	UL Certified EPD HPD USGBC® Member RoHS-compliant/RoHS 2-compliant REACH-compliant

ENVIRONMENTAL SPECIFICATIONS

	Riser	Plenum
Operation	-20°C to +75°C	0°C to +75°C
Storage/Shipping	-40°C to +75°C	-40°C to +75°C
Installation	-20°C to +65°C	0°C to +65°C

SUSTAINABILITY LEADERSHIP







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PRODUCT DESCRIPTION

FIRST MANUFACTURER IN THE INDUSTRY to offer products that contribute toward LEED!

These Superior Essex premises distribution optical fiber cables are constructed using a single unit, single jacket RoHS-compliant design with fiber counts from 6 through 24. The design consists of flexible 900 μ m tight buffered industry standard 250 μ m fibers (900/250/125 μ m) and is suitable for use with standard connectors, like the SC, ST, and FC, and small-form-factor connectors like the LC. Dielectric aramid yarns are applied for strength while maintaining flexibility. The 18 and 24-fiber cable designs have a flexible glass reinforced central strength element for added durability and performance. A durable, flame resistant outer jacket is applied over the cable core using appropriate OFNR or OFNP rated materials.

APPLICATIONS

- Intrabuilding backbones
- Conduit pathways
- Service entrance to communication closets
- "Behind-the-shelf" connections

FEATURES	BENEFITS
 UL[®] Certified Environmental Product Declaration (EPD) 	 Contributes toward 1 LEED point under the Material and Resources credit (MRc)
 Health Product Declaration[™] (HPD[™]) 	 Contributes toward 1 LEED point under the MRc
Marked in feet and meters	 Meets commercial, government and international requirements for length markings
 BrakeBox[®] payout control system 	 Adjustable tension control on reel prevents over spin and entangling of cable



				Nominal		Maximum Te	nsile Loading	Minimum I	Bend Radius	
Listing	Part Number ¹	Fiber Type	Fiber Count	Diameter in (mm)	Nominal Weight Ibs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)	Package
OFNR	43006x1zz	Single mode	6	0.20 (5.0)	17 (25)	150 (660)	45 (200)	3.0 (75)	2.0 (50)	use key
OFNR	43008x1zz	Single mode	8	0.24 (6.0)	20 (30)	150 (660)	45 (200)	3.5 (90)	2.4 (60)	use key
OFNR	43012x1zz	Single mode	12	0.26 (6.5)	25 (37)	150 (660)	45 (200)	3.8 (98)	2.6 (65)	use key
OFNR	43018xK01*	Single mode	18	0.30 (7.5)	35 (51)	300 (1,320)	90 (400)	4.4 (113)	3.0 (75)	Plywood
OFNR	43024xK01*	Single mode	24	0.33 (8.5)	44 (66)	300 (1,320)	90 (400)	5.0 (128)	3.3 (85)	Plywood
OFNP	44006x1zz	Single mode	6	0.20 (5.0)	17 (25)	100 (440)	30 (130)	3.0 (75)	2.0 (50)	use ke
OFNP	44008x1zz	Single mode	8	0.21 (5.4)	19 (28)	100 (440)	30 (130)	3.2 (81)	2.1 (54)	use ke
OFNP	44012x1zz	Single mode	12	0.24 (6.2)	24 (35)	100 (440)	30 (130)	3.7 (93)	2.4 (62)	use ke
OFNP	44018xK01*	Single mode	18	0.28 (7.0)	33 (49)	150 (660)	45 (200)	4.1 (105)	2.8 (70)	Plywood
OFNP	44024xK01	Single mode	24	0.31 (7.8)	42 (62)	150 (660)	45 (200)	4.6 (117)	3.1 (78)	Plywood
OFNR	43006yGzz	Multimode	6	0.20 (5.0)	17 (25)	150 (660)	45 (200)	3.0 (75)	2.0 (50)	use ke
OFNR	43008yGzz	Multimode	8	0.24 (6.0)	20 (30)	150 (660)	45 (200)	3.5 (90)	2.4 (60)	use ke
OFNR	43012yGzz	Multimode	12	0.26 (6.5)	25 (37)	150 (660)	45 (200)	3.8 (98)	2.6 (65)	use ke
OFNR	43018yK01	Multimode	18	0.30 (7.5)	35 (51)	300 (1,320)	90 (400)	4.4 (113)	3.0 (75)	Plywood
OFNR	43024yK01	Multimode	24	0.33 (8.5)	44 (66)	300 (1,320)	90 (400)	5.0 (128)	3.3 (85)	Plywood
OFNP	44006yGzz	Multimode	6	0.20 (5.0)	17 (25)	100 (440)	30 (130)	3.0 (75)	2.0 (50)	use ke
OFNP	44008yGzz	Multimode	8	0.21 (5.4)	19 (28)	100 (440)	30 (130)	3.2 (81)	2.1 (54)	use ke
OFNP	44012yGzz	Multimode	12	0.24 (6.2)	24 (35)	100 (440)	30 (130)	3.7 (93)	2.4 (62)	use ke
OFNP	44018yK01	Multimode	18	0.28 (7.0)	33 (49)	150 (660)	45 (200)	4.1 (105)	2.8 (70)	Plywood
OFNP	44024yK01	Multimode	24	0.31 (7.8)	42 (62)	150 (660)	45 (200)	4.6 (117)	3.1 (78)	Plywood

*Only available with TeraFlex® Bend Resistant single mode optical fiber types.

MULTIMODE OPTICAL FIBER TYPES

	Reduced	TeraFl	ex® Bend Re	sistant		TeraGain®	Laser	TeraGain Optimized			lex Bend Re Optimized	
	Water Peak	G.657.A1	G.657.A2	G.657.B3		62.5/125	10G/150	10G/300	10G/550	10G/150	10G/300	10G/550
¹ Replace "x" with:	3	К	J	L	¹ Replace "y" with:	6	А	В	F	Μ	Ν	Р
Standard Jacket Colors*		Yellow		Standard Jacket Colors*	Orange			Ac	qua			

*Other jacket colors available upon request. See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

PACKAGING				
	Cut to Length Plywood Reel	1,000 ft BrakeBox	1,500 ft BrakeBox	2,000 ft BrakeBox
¹ Replace "zz" with:	01	BB	BD	BC

PREMISES CABLE

800.551.8948 SuperiorEssex.com



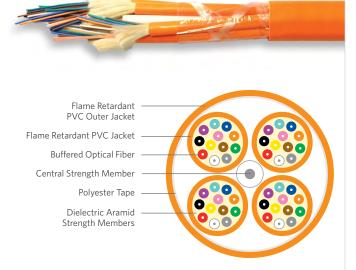
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Multi-Unit Distribution

OFNR/OFNP

PREMISES CABLE



SPECIFICATIONS							
18-36 Fiber Configuration	6-fiber subunits, reverse oscillating lay (ROL) stranded around flexible high- strength glass reinforced rod						
36-144 Fiber Configuration	12-fiber subunits, ROL stranded around flexible high-strength glass reinforced rod						
Subunit Jacket	OFNR: Flame retardant (FR) PVC OFNP: FR, low smoke (LS) PVC						
Outer Jacket	OFNR: FR PVC OFNP: FR PVDF or LS PVC						
Performance Compliance	UL 1651 CSA C22.2 No. 232 UL 1666 NFPA 262 Telcordia® GR-409-CORE, Issue 2 ANSI/ICEA S-83-596 ANSI/TIA-568-C.3						
NRTL Programs	UL, c(UL) Listed OFNR UL, c(UL) Listed OFNP						
Sustainability	UL Certified EPD HPD USGBC® Member RoHS-compliant/RoHS 2-compliant REACH-compliant						

ENVIRONMENTAL SPECIFICATIONS

	Riser	Plenum
Operation	-20°C to +75°C	0°C to +75°C
Storage/Shipping	-40°C to +75°C	-40°C to +75°C
Installation	0°C to +65°C	0°C to +65°C

SUSTAINABILITY LEADERSHIP



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PRODUCT DESCRIPTION

FIRST MANUFACTURER IN THE INDUSTRY to offer products that contribute toward LEED!

Premises Multi-unit Distribution Optical Fiber Cables are constructed using 6 or 12-fiber subunits stranded around a central strength member in a RoHS-compliant design for fiber counts from 18 through 144. Standard fibers for these cables include Reduced Water Peak (RWP) single mode, TeraGain® 220/600 62.5 μ m multimode and TeraFlex® 10G/150 – laser optimized 50 μ m multimode fiber. All fibers exceed industry requirements.

The design consists of flexible 900 μm tight buffered industry standard 250 μm fibers (900/250/125 μm) and is suitable for use with standard connectors, like the SC, ST, and FC, and small-form-factor connectors like the LC. Subunits are constructed using dielectric aramid yarns for strength while maintaining flexibility and are jacketed using the color appropriate to the type of fiber in the cable. The subunits are then stranded around a flexible high-strength glass reinforced rod which provides exceptional resistance to dimensional changes due to temperature. A durable, flame resistant outer jacket is applied over the cable core using appropriate OFNR or OFNP rated materials.

APPLICATIONS

- Intrabuilding backbones
- Conduit pathways
- Service entrance to communication closets
- "Behind-the-shelf" connections

FEATURES	BENEFITS
UL [®] Certified Environmental Product Declaration (EPD)	 Contributes toward 1 LEED point under the Material and Resources credit (MRc)
 Health Product Declaration[™] (HPD[™]) 	 Contributes toward 1 LEED point under the MRc
 Subunits are color coded according to fiber type 	Easily identify fiber type
Numbered subunits	 Easily identifies correct subunit on each end
 Marked in feet and meters 	Length marking for both

 Length marking for both commercial and military/ government

Rev 7/15

PERIOR



				Fibers	Nominal		Maximum Te	nsile Loading	Minimum E		
isting	Part Number ¹	Fiber Type	Fiber Count	Per Subunit	Diameter in (mm)	Nominal Weight Ibs/kft (kg/km)	Install Ibs (N)	0		Long Term in (mm)	Package
OFNR	43018x101	Single mode	18	6	0.55 (13.9)	96 (143)	600 (2,640)	180 (800)	8.1 (206)	5.4 (137)	Reel
OFNR	43024x101	Single mode	24	6	0.58 (14.8)	117 (174)	600 (2,640)	180 (800)	8.6 (218)	5.7 (146)	Reel
OFNR	43030x101	Single mode	30	6	0.63 (16.0)	140 (210)	600 (2,640)	180 (800)	9.3 (236)	6.2 (158)	Reel
OFNR	43036x101	Single mode	36	6	0.69 (17.5)	171 (255)	600 (2,640)	180 (800)	10.2 (260)	6.8 (174)	Reel
OFNR	43036xE01	Single mode	36	12	0.69 (17.5)	150 (224)	600 (2,640)	180 (800)	10.3 (262)	6.9 (175)	Reel
OFNR	43048x101	Single mode	48	12	0.69 (17.5)	150 (224)	600 (2,640)	180 (800)	10.3 (262)	6.9 (175)	Reel
OFNR	43060x101	Single mode	60	12	0.77 (19.5)	195 (291)	600 (2,640)	180 (800)	11.5 (292)	7.7 (195)	Reel
OFNR	43072x101	Single mode	72	12	0.82 (21.0)	233 (348)	600 (2,640)	180 (800)	12.4 (314)	8.2 (210)	Reel
OFNR	43084x101	Single mode	84	12	0.92 (23.3)	289 (431)	600 (2,640)	180 (800)	13.7 (349)	9.2 (233)	Reel
OFNR	43096x101	Single mode	96	12	0.97 (24.7)	337 (503)	600 (2,640)	180 (800)	14.6 (370)	9.7 (247)	Reel
OFNR	43144x101	Single mode	144	12	1.11 (28.3)	362 (540)	600 (2,640)	180 (800)	16.7 (425)	11.1 (283)	Reel
OFNP	44018x101	Single mode	18	6	0.55 (13.9)	117 (175)	600 (2,640)	180 (800)	8.1 (206)	5.4 (138)	Reel
OFNP	44024x101	Single mode	24	6	0.58 (14.8)	141 (211)	600 (2,640)	180 (800)	8.6 (219)	5.7 (146)	Reel
OFNP	44030x101	Single mode	30	6	0.63 (16.0)	176 (262)	600 (2,640)	180 (800)	9.3 (237)	6.2 (158)	Reel
OFNP	44036x101	Single mode	36	6	0.69 (17.5)	206 (307)	600 (2,640)	180 (800)	10.3 (261)	6.9 (174)	Reel
OFNP	44036×E01	Single mode	36	12	0.67 (17.1)	189 (282)	600 (2,640)	180 (800)	10.1 (257)	6.7 (171)	Reel
OFNP	44048x101	Single mode	48	12	0.67 (17.1)	189 (282)	600 (2,640)	180 (800)	10.1 (257)	6.7 (171)	Reel
OFNP	44060x101	Single mode	60	12	0.74 (18.9)	229 (341)	600 (2,640)	180 (800)	11.2 (284)	7.4 (189)	Reel
OFNP	44072x101	Single mode	72	12	0.81 (20.6)	276 (412)	600 (2,640)	180 (800)	12.2 (309)	8.1 (206)	Reel
OFNP	44096x101	Single mode	96	12	0.87 (22.0)	313 (467)	600 (2,640)	180 (800)	13.0 (330)	8.7 (220)	Reel
OFNP	44144x101	Single mode	144	12	0.92 (23.4)	318 (474)	600 (2,640)	180 (800)	13.8 (351)	9.2 (234)	Reel
OFNR	43018yG01	Multimode	18	6	0.55 (13.9)	96 (143)	600 (2,640)	180 (800)	8.1 (206)	5.4 (137)	Reel
OFNR	43024yG01	Multimode	24	6	0.58 (14.8)	117 (174)	600 (2,640)	180 (800)	8.6 (218)	5.7 (146)	Reel
OFNR	43030yG01	Multimode	30	6	0.63 (16.0)	140 (210)	600 (2,640)	180 (800)	9.3 (236)	6.2 (158)	Reel
OFNR	43036yG01	Multimode	36	6	0.69 (17.5)	171 (255)	600 (2,640)	180 (800)	10.2 (260)	6.8 (174)	Reel
OFNR	43036yE01	Multimode	36	12	0.69 (17.5)	155 (232)	600 (2,640)	180 (800)	10.3 (262)	6.9 (175)	Reel
OFNR	43048yG01	Multimode	48	12	0.69 (17.5)	155 (232)	600 (2,640)	180 (800)	10.3 (262)	6.9 (175)	Reel
OFNR	43060yG01	Multimode	60	12	0.77 (19.5)	195 (291)	600 (2,640)	180 (800)	11.5 (292)	7.7 (195)	Reel
OFNR	43072yG01	Multimode	72	12	0.82 (21.0)	233 (348)	600 (2,640)	180 (800)	12.4 (314)	8.2 (210)	Reel
OFNR	43084yG01	Multimode	84	12	0.92 (23.3)	289 (431)	600 (2,640)	180 (800)	13.7 (349)	9.2 (233)	Reel
OFNR	43096yG01	Multimode	96	12	0.97 (24.7)	337 (503)	600 (2,640)	180 (800)	14.6 (370)	9.7 (247)	Reel
OFNR	43144yG01	Multimode	144	12	1.11 (28.3)	362 (540)	600 (2,640)	180 (800)	16.7 (425)	11.1 (283)	Reel
OFNP	44018yG01	Multimode	18	6	0.55 (13.9)	117 (175)	600 (2,640)	180 (800)	8.1 (206)	5.4 (138)	Reel
OFNP	44024yG01	Multimode	24	6	0.58 (14.8)	141 (211)	600 (2,640)	180 (800)	8.6 (219)	5.7 (146)	Reel
OFNP	44030yG01	Multimode	30	6	0.63 (16.0)	176 (262)	600 (2,640)	180 (800)	9.3 (237)	6.2 (158)	Reel
OFNP	44036yG01	Multimode	36	6	0.69 (17.5)	206 (307)	600 (2,640)	180 (800)	10.3 (261)	6.9 (174)	Reel
OFNP	44036yE01	Multimode	36	12	0.67 (17.1)	189 (282)	600 (2,640)	180 (800)	10.1 (257)	6.7 (171)	Reel
OFNP	44048yG01	Multimode	48	12	0.67 (17.1)	189 (282)	600 (2,640)	180 (800)	10.1 (257)	6.7 (171)	Reel
OFNP	44060yG01	Multimode	60	12	0.74 (18.9)	229 (341)	600 (2,640)	180 (800)	11.2 (284)	7.4 (189)	Reel
OFNP	44072yG01	Multimode	72	12	0.81 (20.6)	276 (412)	600 (2,640)	180 (800)	12.2 (309)	8.1 (206)	Reel
OFNP	44096yG01	Multimode	96	12	0.87 (22.0)	313 (467)	600 (2,640)	180 (800)	13.0 (330)	8.7 (220)	Reel
OFNP	44144yG01	Multimode	144	12	0.92 (23.4)	318 (474)	600 (2,640)	180 (800)	13.8 (351)	9.2 (234)	Reel

SINGLE MODE OPTICAL FIBER TYPES

MULTIMODE OPTICAL FIBER TYPES

	Reduced	TeraFl	ex® Bend Re	sistant		TeraGain®	Laser	TeraGain Optimized	50/125		lex Bend Re Optimized	
	Water Peak	G.657.A1	G.657.A2	G.657.B3		62.5/125	10G/150	10G/300	10G/550	10G/150	10G/300	10G/550
¹ Replace "x" with:	3	K	J	L	¹ Replace "y" with:	6	А	В	F	Μ	Ν	Р
Standard Jacket Colors*		Yellow		Standard Jacket Colors*	Orange	Ad		qua				

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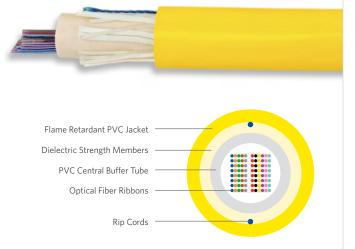
*Other jacket colors available upon request. See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

All information, content, data, specifications, packaging and part numbers detailed herein are subject to change. For the most up-to-date information, please visit SuperiorEssex.com. Purchase of this product is subject exclusively to the then current **SuperiorEssex.International LP Terms and Conditions of Sale for Communications and Energy Cable, Wire and Connectivity Products**, which can be found on our website, SuperiorEssex.com, or provided to you upon request.



INDEX

OFNR/OFNP



SPECIFICATIONS	
≤ 216-Fiber Configuration	Standards compliant 12-fiber ribbon subunits
> 216-Fiber Configuration	Two standards compliant 12-fiber ribbon subunits conjoined to form a 24-fiber ribbon subunit
Jacket	OFNR: Flame retardant (FR) PVC OFNP: FR, low smoke PVC
Performance Compliance	UL 1651 CSA C22.2 No. 232 UL 1666 Telcordia® GR-409, Issue 2 ANSI/ICEA S-83-596 ANSI/TIA-568-C.3 RoHS-compliant/RoHS 2-compliant
NRTL Programs	UL c(UL) Listed OFNR; FT4 UL c(UL) Listing OFNP

ENVIRONMENTAL SPECIFICATIONS

	Riser	Plenum
Operation	-20°C to +75°C	0°C to +75°C
Storage/Shipping	-40°C to +75°C	-40°C to +75°C
Installation	0°C to +75°C	+20°C to +75°C

PRODUCT DESCRIPTION

Superior Essex's Premises Ribbon Distribution cables contain 12 to 288 optical fibers. The fibers are grouped in the form of 12-fiber flat ribbons. For fiber counts greater than 216, two 12-fiber ribbons are conjoined to form a 24-fiber ribbon subunit that's easily separable into two 12-fiber ribbons. The optical fiber ribbons are stacked within a single, flame-retardant, PVC central buffer tube. Dual layers of stranded dielectric strength elements are wrapped around the central tube for tensile and compression strength. A riser or plenum rated PVC sheath covers the strength elements and the cables have highly visible ripcords underneath the jacket for rapid sheath entry.

The ribbon cables are available with an OFNR listing passing the UL® 1666 riser burn test or OFNP listing passing NFPA 262 plenum test. The cables are ideal for high density requirements where conduit space is limited. This cable also meets or exceeds the distribution cable requirements of ANSI/ICEA-596 and Telcordia® GR-409-CORE, Issue 2.

APPLICATIONS

- Intra-building backbones
- Conduit, duct or tray pathways
- Premises locations

FEATURES	

• Exceeds ANSI/TIA-568-C.3	 Future-proof fiber performance for current and future multi- gigabit applications
Small, compact design	 Ideal for high density installation like data centers
12-fiber ribbon subunits	 Easily mass fusion spliced or attached to MPT[®]/MPOs
• Two conjoined 12-fiber ribbons	 Keeps the form factor consistent for bigher fiber counts

BENEFITS

- for counts greater than 216 for
- OFNR and OFNP listings
- Jacket ripcords
- for higher fiber countsAllows installation in any premises space
- Save time in cable preparation



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PART NU	MBER KEY														
F	3 or 4	5	6	-	_	_	_	U	х	х	-	У	9	9	1
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Fiber cable	Listing	Cable	e type	-	Fiber count (012-288)		Fiber type			-	Jacket color	Pac	kage	Jacket print	

Contact Customer Service for availability of non-standard offerings.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

			Nominal		Maximum Te	nsile Loading	Minimum E	end Radius
Listing	Part Number ¹	Fiber Count	Diameter in (mm)	Nominal Weight Ibs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)
OFNR	F356-012Uxx-y991	12	0.56 (14.2)	126 (188)	300 (1,334)	100 (445)	10.4 (264)	5.2 (132)
OFNR	F356-024Uxx-y991	24	0.56 (14.2)	127 (189)	300 (1,334)	100 (445)	10.4 (264)	5.2 (132)
OFNR	F356-048Uxx-y991	48	0.56 (14.2)	128 (191)	300 (1,334)	100 (445)	10.4 (264)	5.2 (132)
OFNR	F356-060Uxx-y991	60	0.56 (14.2)	130 (193)	300 (1,334)	100 (445)	10.4 (264)	5.2 (132)
OFNR	F356-072Uxx-y991	72	0.56 (14.2)	130 (194)	300 (1,334)	100 (445)	10.4 (264)	5.2 (132)
OFNR	F356-084Uxx-y991	84	0.56 (14.2)	131 (195)	300 (1,334)	100 (445)	10.4 (264)	5.2 (132)
OFNR	F356-096Uxx-y991	96	0.56 (14.2)	132 (196)	300 (1,334)	100 (445)	10.4 (264)	5.2 (132)
OFNR	F356-144Uxx-y991	144	0.63 (16.0)	149 (221)	300 (1,334)	100 (445)	12.4 (314)	6.2 (157)
OFNR	F356-216Uxx-y991	216	0.63 (16.0)	155 (230)	300 (1,334)	100 (445)	12.4 (314)	6.2 (157)
OFNR	F356-288Uxx-y991	288	0.81 (20.5)	200 (298)	600 (2,670)	200 (890)	16.2 (410)	8.1 (205)
OFNP	F456-012Uxx-y991	12	0.55 (14.0)	124 (184)	300 (1,334)	100 (445)	11.0 (280)	5.5 (140)
OFNP	F456-024Uxx-y991	24	0.55 (14.0)	124 (185)	300 (1,334)	100 (445)	11.0 (280)	5.5 (140)
OFNP	F456-048Uxx-y991	48	0.55 (14.0)	126 (187)	300 (1,334)	100 (445)	11.0 (280)	5.5 (140)
OFNP	F456-060Uxx-y991	60	0.55 (14.0)	127 (189)	300 (1,334)	100 (445)	11.0 (280)	5.5 (140)
OFNP	F456-072Uxx-y991	72	0.55 (14.0)	128 (190)	300 (1,334)	100 (445)	11.0 (280)	5.5 (140)
OFNP	F456-084Uxx-y991	84	0.55 (14.0)	128 (191)	300 (1,334)	100 (445)	11.0 (280)	5.5 (140)
OFNP	F456-096Uxx-y991	96	0.55 (14.0)	129 (192)	300 (1,334)	100 (445)	11.0 (280)	5.5 (140)
OFNP	F456-144Uxx-y991	144	0.65 (16.6)	167 (249)	300 (1,334)	100 (445)	13.0 (332)	6.5 (166)
OFNP	F456-216Uxx-y991	216	0.65 (16.6)	173 (257)	300 (1,334)	100 (445)	13.0 (332)	6.5 (166)
OFNP	F456-288Uxx-y991	288	0.85 (21.6)	252 (376)	300 (1,334)	100 (445)	17.0 (432)	8.5 (216)

FIBER TYPES / STANDARD JACKET COLORS:*	SINGLE MODE			MULTIMODE				
	Reduced	educed TeraFlex® Bend Resistant		TeraGain®	TeraFlex Bend Resistant Laser Optimized 50/125			
	Water Peak	G.657.A1	G.657.A2	G.657.B3	62.5/125	10G/150	10G/300	10G/550
¹ Replace "xx" with:	10	13	14	15	23	28	30	32
¹ Replace "y" with:		Yellov	w = 6		Orange = D		Aqua = K	

*Other jacket colors available upon request. See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

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Flame Retardant PVC Jacket **Buffered Optical Fiber** Dielectric Aramid Strength Members

SPECIFICATIONS	
Configuration	Simplex 900 micron tight buffered fiber surrounded by aramid yarns and covered by a riser-rated flame retardant jacket
Strength Elements	Dielectric aramid yarns
Jacket	Yellow, flame retardant PVC (other jacket colors available upon request)
Performance Compliance	UL 1666 ANSI/ICEA S-83-596 ICEA S-115-730-2011 ANSI/TIA-568-C.3 REACH-compliant
NRTL Programs	UL, c(UL) Listed OFNR
Sustainability	UL Certified EPD HPD USGBC® Member RoHS-compliant/RoHS 2-compliant REACH-compliant

ENVIRONMENTAL SPECIFICATIONS -20°C to +70°C Operation Storage/Shipping -40°C to +70°C -10°C to +65°C Installation

PART NUMBERS AND PHYSICAL CHARACTERISTICS

			Nominal	_	Maximum Te	ensile Loading	Minimum	Bend Radius	
Listing	Part Number ¹	Fiber Count	Diameter No	Diameter	Nominal Weight lbs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)
OFNR	D3001L3yy	1	0.11 (2.9)	2.5 (4.0)	50 (220)	15 (66)	2.0 (50)	0.2 (5)	
OFNR	D3001L5yy	1	0.19 (4.8)	6.2 (9.3)	100 (450)	30 (132)	2.0 (50)	0.2 (5)	

Other jacket colors available upon request.

PACKAGING				
	Cut to Length Plywood Reel	1,000 ft BrakeBox	1,500 ft BrakeBox	2,000 ft BrakeBox
¹ Replace "yy" with:	01	BB	BD	BC





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ERIOR



PRODUCT DESCRIPTION

FIRST MANUFACTURER IN THE INDUSTRY

Both the Compact MDU 2.9 mm simplex cable and the Rugged Indoor MDU 4.8 mm simplex cable meet ICEA-730 Draft specification for MDU cables. The 2.9 mm is ideal for low-stress installations where space is a premium. The 4.8 mm is more robust and can handle installation tensions as high as 100 pounds. Both cables are available with G.657.B3 compliant bend resistant single mode fiber, preventing light loss even under tight bends.

APPLICATIONS

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- Multi-Dwelling Units (MDU)
- Horizontal (non-plenum) or riser spaces
- Optical entrance facility to end-user
- Passive optical networks

FEATURES

EATURES	BENEFITS
UL® Certified Environmental Product Declaration (EPD)	 Contributes toward 1 LEED point under the Material and Resources credit (MRc)
Health Product Declaration™ (HPD™)	 Contributes toward 1 LEED point under the MRc
ICEA S-115-730-2011 and ICEA-596 compliant	 Insures reliable installation and performance
Available with G.657.B3 single mode fiber	 Assures low attenuation loss even under installation stresses, such as tight bends and cable stapling
Riser rated	 Meets fire safety requirements for MDUs
Feet/meter length marking	No need for length unit conversion
BrakeBox [®] payout control system	 Adjustable tension control on reel prevents over spin and

entangling of cable



Rugged Indoor/Outdoor MDU

PRODUCT DESCRIPTION

FIRST MANUFACTURER IN THE INDUSTRY to offer products that contribute toward LEED!

The Rugged Indoor/Outdoor MDU is a 4.8 mm simplex cable that meets ICEA-730 specification for MDU cables. The cable is robust and can handle installation tensions as high as 100 pounds. The black jacket is UL® Listed Sunlight Resistant and the cable design employs dry block technology to prevent water penetration without the use of gels. This cable is available with G.657.B3 compliant bend resistant single mode fiber, preventing light loss even under tight bends.

APPLICATIONS

- Multi-Dwelling Units (MDU)
- Indoor or outdoor environments
- Horizontal (non-plenum) or riser spaces
- Optical entrance facility to end-user
- Passive optical networks

FEATURES BENEFITS . UL Certified Environmental Contributes toward 1 LEED Product Declaration (EPD) point under the Material and Resources credit (MRc) Health Product Declaration[™] Contributes toward 1 LEED (HPD™) point under the MRc ICEA S-115-730-2011 Insures reliable installation and ICEA-696 compliant and performance • Available with G.657.B3 single Assures low attenuation loss even mode fiber under installation stresses, such as tight bends and cable stapling Dry blocked core Prevents water ingress from OSP to ISP environments UL Sunlight Resistant Assures reliable performance even after long term sunlight exposure Riser rated Meets fire safety requirements for MDUs Feet/meter length marking No need for length unit conversion BrakeBox[®] payout Adjustable tension control on control system reel prevents over spin and

entangling of cable

Flame Retardant and Sunlight Resistant PVC Jacket Buffered Optical Fiber Water-Blocking Dielectric Aramid Strength Members

SPECIFICATIONS	
Configuration	Simplex 900 micron tight buffered fiber surrounded by water-blocking aramid yarns and covered by a riser- rated flame retardant and sunlight resistant jacket
Strength Elements	Dielectric aramid yarns
Water-Blocking	SAP Dry Block
Jacket	Black, flame retardant, sunlight resistant PVC
Performance Compliance	UL 1666 Telcordia® GR-409-CORE, Issue 2 ANSI/ICEA S-83-696 ICEA S-115-730-2011 ANSI/TIA-568-C.3 REACH-compliant
NRTL Programs	UL, c(UL) Listed OFNR UL, c(UL) Listed Sunlight Resistant
Sustainability	UL Certified EPD HPD USGBC® Member RoHS-compliant/RoHS 2-compliant REACH-compliant

ENVIRONMENTAL SPECIFICATIONS							
Operation	-40°C to +70°C						
Storage/Shipping	-40°C to +70°C						
Installation	-10°C to +65°C						
Installation	-10°C to +65°C						

PART NUMBERS AND PHYSICAL CHARACTERISTICS

	g Part Number ¹			Nominal	_	Maximum Te	ensile Loading	Minimum	Bend Radius
Listing		Fiber Count	Diameter in (mm)	Nominal Weight lbs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)	
OFNR	D5001L5yy	1	0.19 (4.8)	6.2 (9.3)	100 (450)	30 (132)	2.0 (50)	0.3 (7.5)	

PACKAGING								
	Cut to Length Plywood Reel	1,000 ft BrakeBox	1,500 ft BrakeBox	2,000 ft BrakeBox				
¹ Replace "yy" with:	01	BB	BD	BC				

SUSTAINABILITY LEADERSHIP





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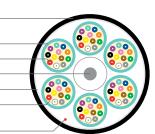
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Indoor/Outdoor Sunlight Resistant

OFNP

Flame Retardant, Chemical and Sunlight Resistant PVDF Jacket Flame Retardant PVDF Jacket Buffered Optical Fiber Central Strength Member Water-Blocking Tape Dielectric Aramid Strength Members Rip Cord



SPECIFICATIONS

18-36 Fiber Multi-Unit Configuration	6-fiber sub-units are grouped to form core; core consists of sub-units cabled with additional strength members
48-72 Fiber Multi-Unit Configuration	12-fiber sub-units are grouped to form core; core consists of sub-units cabled with additional strength members
Jacket	Flame retardant (FR), sunlight resistant black PVDF
Performance Compliance	UL 1651 CSA C22.2 No. 232 NFPA 262 Telcordia [®] GR-409-CORE, Issue 1 Telcordia GR-409-CORE, Issue 2 ANSI/ICEA S-83-596
NRTL Programs	UL, c(UL) Listed OFNP UL, c(UL) Listed Sunlight Resistant
Sustainability	UL Certified EPD HPD USGBC® Member RoHS-compliant/RoHS 2-compliant REACH-compliant

ENVIRONMENTAL SPECIFICATIONS						
Operation	-20°C to +75°C					
Storage/Shipping	-40°C to +75°C					
Installation	-20°C to +65°C					







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PRODUCT DESCRIPTION

FIRST MANUFACTURER IN THE INDUSTRY

Indoor/Outdoor Sunlight Resistant Tight Buffer Plenum optical fiber cables are ideally suited for installations that require partial or complete routing of pathways outside the building. These cables can be installed in inner ducts and steam tunnels, as well as within building riser and plenum locations. The tight buffer feature of these indoor/outdoor cables eliminates the need for breakout kits and/or other special termination equipment associated with loose tube cables. The outer jacket is comprised of a durable UL® Listed sunlight resistant flouropolymer that allows for the cable to be exposed to direct sunlight without the concern of material degradation. The cable is not designed for prolonged submersion in water, therefore it is not recommended for direct buried service nor within buried conduit which can flood. Please consult Technical Support to determine the best cable for your application.

APPLICATIONS

- Intrabuilding backbones
- Interbuilding backbones, such as conduit pathways or tunnels, that are not subject to flooding or constant water submersion
- Service entrance to communication closets

FEATURES

BENEFITS UL Certified Environmental Contributes toward 1 LEED Product Declaration (FPD) point under the Material and Resources credit (MRc) Health Product Declaration[™] Contributes toward 1 LEED (HPD[™]) point under the MRc Tested and qualified to Assurance that cable investment Telcordia® GR-409-CORE will last Exceeds ANSI/TIA-568-C.3 Future-proof fiber performance optical performance for current and future networking applications • 900 µm tight buffered fibers · Connect directly to mechanical connectors Black, UL Listed sunlight Long periods of direct sunlight resistant outer jacket exposure will not damage cable -20 °C Low Temperature Allows operation at low Performance temperatures OFNP weather resistant, Eliminates the need to purchase indoor/outdoor design separate cables for plenum indoor/outdoor applications

- All dielectric
- Jacket rip cord
- No additional grounding materials need to be purchased
- Saves time in cable preparation



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				Nominal		Maximum Te	nsile Loading	Minimum E	end Radius	
Listing	Part Number ¹	Fiber Type	Fiber Count	Diameter in (mm)	Nominal Weight lbs/kft (kg/km)	Install lbs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)	Package
OFNP	24018x101	Single mode	18	0.54 (13.8)	117 (175)	600 (2,700)	180 (800)	8.1 (206)	5.4 (138)	Plywood ree
OFNP	24024x101	Single mode	24	0.57 (14.6)	141 (211)	600 (2,700)	180 (800)	8.6 (219)	5.7 (146)	Plywood ree
OFNP	24030x101	Single mode	30	0.63 (16.0)	174 (259)	600 (2,700)	180 (800)	9.4 (240)	6.3 (160)	Plywood ree
OFNP	24036x101	Single mode	36	0.69 (17.4)	206 (307)	600 (2,700)	180 (800)	10.3 (261)	6.9 (174)	Plywood ree
OFNP	24048x101	Single mode	48	0.67 (17.1)	184 (275)	600 (2,700)	180 (800)	10.1 (257)	6.7 (171)	Plywood ree
OFNP	24060x101	Single mode	60	0.74 (18.9)	231 (344)	600 (2,700)	180 (800)	11.1 (283)	7.4 (189)	Plywood ree
OFNP	24072x101	Single mode	72	0.81 (20.6)	277 (413)	600 (2,700)	180 (800)	12.2 (309)	8.1 (206)	Plywood ree
OFNP	24018xG01	Multimode	18	0.54 (13.8)	117 (175)	600 (2,700)	180 (800)	8.1 (206)	5.4 (138)	Plywood ree
OFNP	24024xG01	Multimode	24	0.57 (14.6)	141 (211)	600 (2,700)	180 (800)	8.6 (219)	5.7 (146)	Plywood ree
OFNP	24030xG01	Multimode	30	0.63 (16.0)	174 (259)	600 (2,700)	180 (800)	9.4 (240)	6.3 (160)	Plywood ree
OFNP	24036xG01	Multimode	36	0.69 (17.4)	206 (307)	600 (2,700)	180 (800)	10.3 (261)	6.9 (174)	Plywood ree
OFNP	24048xG01	Multimode	48	0.67 (17.1)	184 (275)	600 (2,700)	180 (800)	10.1 (257)	6.7 (171)	Plywood ree
OFNP	24060xG01	Multimode	60	0.74 (18.9)	231 (344)	600 (2,700)	180 (800)	11.1 (283)	7.4 (189)	Plywood ree
OFNP	24072xG01	Multimode	72	0.81 (20.6)	277 (413)	600 (2,700)	180 (800)	12.2 (309)	8.1 (206)	Plywood ree

SINGLE MODE FI	BER TYPES			MULTIMODE OPTICAL FIBER TYPES						
	TeraFl	ex® Bend Re	sistant		TeraGain®	TeraFlex Bend Resistant Laser Optimized 50/125				
	G.657.A1	G.657.A2	G.657.B3		62.5/125	10G/150	10G/300	10G/550		
Replace "x" with:	K	J	L	¹ Replace "x" with:	6	М	Ν	Р		
I/O Jacket Color		Black		I/O Jacket Color		Bla	ck			

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

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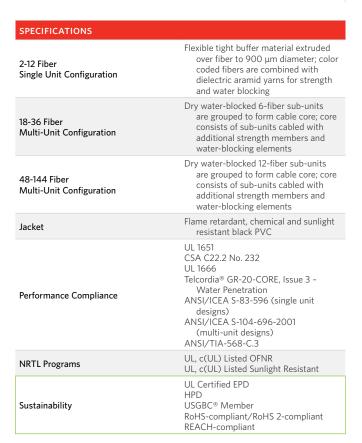


PREMISES CABLE OSP CABLE

Dry Block, Sunlight Resistant, Indoor/Outdoor, Tight Buffer



Buffered Optical Fiber -Central Strength Member -Water-Blocking Tape -Water-Blocking Dielectric -Aramid Strength Members Rip Cord -



ENVIRONMENTAL SPECIFICATIONS	
Operation	-40°C to +75°C
Storage/Shipping	-40°C to +75°C
Installation	-20°C to +65°C

SUSTAINABILITY LEADERSHIP





CIROHS REACH green**®**wizard

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PRODUCT DESCRIPTION

FIRST MANUFACTURER IN THE INDUSTRY to offer products that contribute toward LEED!

The Dry Block, Sunlight Resistant Indoor/Outdoor, Tight Buffer Riser-Rated Cable line offers the system designer the ultimate in premises optical fiber cable utility. These cables can be installed in open spaces, trays, conduits, inner-ducts, trenches, steam tunnels and building riser locations. These cables incorporate the latest in dry water-blocking technology. This system of water blocking eliminates the need to clean off the traditional gel-based water-blocking compounds found in loose tube cables. In addition, breakout kits and or other special termination equipment associated with loose tube Outside Plant (OSP) cables are not required. The outer jacket is comprised of a durable UL® Listed, sunlight resistant, black polymer that allows for the cable to be exposed to longterm direct sunlight without the concern of material degradation. All fiber types are available, including 50/125 μ m, 62.5/125 μ m and single mode.

RENEEITS

APPLICATIONS

- Intra/inter-building backbones
- Trench/conduit/duct/tray pathways
- Dry or wet locations

FEATURES

FE	ATURES	BE	ENEFITS
•	UL Certified Environmental Product Declaration (EPD)	•	Contributes toward 1 LEED point under the Material and Resources credit (MRc)
•	Health Product Declaration™ (HPD™)	•	Contributes toward 1 LEED point under the MRc
•	Exceeds ANSI/TIA-568-C.3 optical performance	•	Future-proof fiber performance for current and future multi- gigabit applications
•	Dry-block design meets Telcordia® GR-20-CORE water- block requirements	•	Cable integrity maintained even if damage occurs to protective layers
•	900 μm tight-buffered fibers	•	Attaches directly to mechanical connectors
•	UL/NEC Listed OFNR	•	Eliminates the need to purchase separate cables for OSP and indoor/riser applications
•	All dielectric	•	No additional grounding materials need to be purchased
•	Jacket rip cord	•	Saves time in cable preparation
•	Black, UL Listed sunlight resistant outer jacket	•	Long periods of direct sunlight exposure will not damage cable
•	BrakeBox® payout control system	•	Adjustable tension control on reel prevents over spin and entangling of cable

INDEX

			Maximum Tensile Loading		nsile Loading	Minimum E			
Listing	Part Number ¹	Fiber Count	Nominal Diameter in (mm)	Nominal Weight lbs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)	Package ¹
OFNR	W3002xxyy	2	0.20 (5.0)	14 (21)	150 (670)	45 (200)	3.0 (75)	2.0 (50)	use key
OFNR	W3004xxyy	4	0.20 (5.0)	15 (23)	150 (670)	45 (200)	3.0 (75)	2.0 (50)	use key
OFNR	W3006xxyy	6	0.20 (5.0)	16 (23)	150 (670)	45 (200)	3.0 (75)	2.0 (50)	use key
OFNR	W3008xxyy	8	0.24 (6.0)	21 (31)	150 (670)	45 (200)	3.5 (90)	2.4 (60)	use key
OFNR	W3012xxyy	12	0.26 (6.5)	25 (38)	150 (670)	45 (200)	3.8 (97)	2.6 (65)	use key
OFNR	W3018xx01	18	0.55 (14.1)	100 (149)	600 (2,700)	180 (800)	8.3 (211)	5.5 (141)	Plywood re
OFNR	W3024xx01	24	0.59 (14.9)	122 (182)	600 (2,700)	180 (800)	8.8 (224)	5.9 (149)	Plywood re
OFNR	W3030xx01	30	0.63 (16.1)	147 (220)	600 (2,700)	180 (800)	9.5 (242)	6.3 (161)	Plywood re
OFNR	W3036xx01	36	0.70 (17.7)	179 (267)	600 (2,700)	180 (800)	10.5 (266)	7.0 (177)	Plywood re
OFNR	W3048xx01	48	0.70 (17.8)	161 (241)	600 (2,700)	180 (800)	10.5 (267)	7.0 (178)	Plywood re
OFNR	W3060xx01	60	0.78 (19.8)	204 (304)	600 (2,700)	180 (800)	11.7 (297)	7.8 (198)	Plywood re
OFNR	W3072xx01	72	0.84 (21.3)	243 (362)	600 (2,700)	180 (800)	12.6 (320)	8.4 (213)	Plywood re
OFNR	W3084xx01	84	0.91 (23.2)	294 (439)	600 (2,700)	180 (800)	13.7 (347)	9.1 (232)	Plywood re
OFNR	W3096xx01	96	0.98 (25.0)	345 (515)	600 (2,700)	180 (800)	14.8 (375)	9.8 (250)	Plywood re
OFNR	W3144xx01	144	1.11 (28.3)	375 (559)	600 (2,700)	180 (800)	16.7 (425)	11.1 (283)	Plywood re

SINGLE MODE OPTICAL FIBER TYPES

Rev 7/15 Ed 13.1

MULTIMODE OPTICAL FIBER	TYPES
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	TeraFl	ex® Bend Re	sistant			TeraGain®	TeraFlex Bend Resistant Laser Optimized 50/125			
	G.657.A1	G.657.A2	G.657.B3			62.5/125	10G/150	10G/300	10G/550	
¹ Replace "xx" with:	K1	J1	L1		¹ Replace "xx" with:	6G	MG	NG	PG	
I/O Jacket Color		Black			I/O Jacket Color		Bla	ck		
See "Ontical Fiber Specifications" in the "Technical Information" costion for detailed fiber time aposition for										

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

PACKAGING				
	Cut to Length Plywood Reel	1,000 ft BrakeBox	1,500 ft BrakeBox	2,000 ft BrakeBox
¹ Replace "yy" with:	01	BB	BD	BC





PREMISES CABLE

Dry Block, Sunlight Resistant, Indoor/Outdoor OFNP

Oil, Abrasion, Chemical and Sunlight Resistant **PVDF** Jacket Central Strength Element **Buffered Optical Fiber** Dielectric Aramid

Strength Members

SPECIFICATIONS

Configuration	2 to 24 optical fibers surrounded by dielectric strength elements with an overall jacket	
Fiber Type	900 micron tight buffered 250 micron optical fiber	
Dielectric Strength Elements	Glass Reinforced Plastic (GRP) and aramid yarns	
Water-Blocking	SAP Dry Block	
Jacket	Oil, chemical, abrasion and UV resistant plenum grade black PVDF	
Maximum Attenuation dB/km	Single mode: @ 1300 nm: 0.7 @ 1380 nm: 0.7 @ 1550 nm: 0.7 Multimode: @ 850 nm: 3.5 @ 1300 nm: 1.5	
Performance Compliance	UL 1651 CSA C22.2 No. 232 NFPA 262 ANSI/ICEA S-104-696-2001 ANSI/ITIA-568-C.3	
NRTL Programs	UL, c(UL) Listed OFNP UL, c(UL) Listed Sunlight Resistant	
Sustainability	UL Certified EPD HPD USGBC® Member RoHS-compliant/RoHS 2-compliant REACH-compliant	

ENVIRONMENTAL SPECIFICATIONS

Operation	-40°C to +70°C
Storage/Shipping	-40°C to +70°C
Installation	0°C to +60°C



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PRODUCT DESCRIPTION

FIRST MANUFACTURER IN THE INDUSTRY

The Superior Essex Dry Block, Sunlight Resistant Indoor/Outdoor Plenum cable is designed to survive the toughest installation and environmental conditions. Not only does the cable exceed the rigorous Indoor/Outdoor plenum cable performance requirements of ICEA 696, but its proprietary thermoplastic jacket makes it resistant to mechanical abrasion, chemicals, oil and sunlight. The cable core consists of 2 through 24 fibers. GRP and aramid yarn dielectric strength elements give the cable both strength and flexibility and the core is fully water-blocking using dry SAP technology. The cable is available in TeraFlex® Bend Resistant optical fiber types, including both single mode and 50 micron multimode.

APPLICATIONS

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- Intra/inter-building backbones
- Conduit/duct/tray pathways
- Dry or wet locations

FEATURES BENEFITS UL® Certified Environmental Contributes toward 1 LEED Product Declaration (EPD) point under the Material and Resources credit (MRc) Health Product Declaration[™] . (HPD™) 900 micron tight buffered optical fibers

- Full water blocking with SAP Dry Block
- . Tough, thermoplastic jacket
- . Meets or exceeds ANSI/ICEA S-104-696-2001
- Plenum (OFNP) rated designs
- Available in both single mode and multimode TeraFlex Bend Resistant fiber types
- BrakeBox[®] payout . control system for 2 to 12 fiber counts
- Contributes toward 1 LEED point under the MRc Allows for either fusion or mechanical connectors Prevents water ingress from OSP splice enclosures . Abrasion, chemical, oil and sunlight resistant Worry-free installation . and performance
 - . Plenum listing allows for cable placement in both plenum and riser spaces
 - Choose the fiber needed for long distance, short-haul FTTx and data center applications
 - Adjustable tension control on reel prevents over spin and entangling of cable



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		Nominal			Maximum Te	nsile Loading	Minimum B		
Listing	Part Number ¹	Fiber Count	Diameter in (mm)	Nominal Weight lbs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)	Package ¹
OFNP	W4002xxyy	2	0.23 (5.9)	24 (36)	300 (1,340)	90 (400)	9.3 (236)	4.6 (118)	use key
OFNP	W4004xxyy	4	0.23 (5.9)	25 (37)	300 (1,340)	90 (400)	9.3 (236)	4.6 (118)	use key
OFNP	W4006xxyy	6	0.23 (5.9)	26 (39)	300 (1,340)	90 (400)	9.3 (236)	4.6 (118)	use key
OFNP	W4008xxyy	8	0.26 (6.7)	32 (47)	300 (1,340)	90 (400)	10.6 (268)	5.3 (134)	use key
OFNP	W4012xxyy	12	0.30 (7.5)	41 (62)	300 (1,340)	90 (400)	11.8 (300)	5.9 (150)	use key
OFNP	W4024xx01	24	0.32 (8.2)	51 (77)	300 (1,340)	90 (400)	12.9 (328)	6.5 (164)	Plywood ree

SINGLE MODE OPTICAL FIBER TYPES

MULTIMODE OPTICAL FIBER TYPES

	TeraFl	ex® Bend Re	sistant			TeraGain®	TeraFlex Bend Resistant Laser Optimized 50/125			
	G.657.A1	G.657.A2	G.657.B3			62.5/125	10G/150	10G/300	10G/550	
¹ Replace "xx" with:	K1	J1	L1	¹ Repla	ce "xx" with:	6G	MG	NG	PG	
I/O Jacket Color		Black		I/O J	acket Color		Bla	ck		
I/O Jacket Color			1511 6 11	/						

Other jacket colors available upon request. See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

PACKAGING				
	Cut to Length Plywood Reel	1,000 ft BrakeBox	1,500 ft BrakeBox	2,000 ft BrakeBox
¹ Replace "yy" with:	01	BB	BD	BC

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Hybrid Premises Fiber OFNR/OFNP

Flame Retardant PVC Jacket Buffered Optical Fiber Central Strength Member Dielectric Aramid Strength Members

SPECIFICATIONS						
Tight Buffer Configuration	Flexible tight buffer material extruded over the fiber to a diameter of 900 µm for use with standard connectors; dielectric aramid yarns are applied for additional strength and covered with a flame retardant PVC jacket					
Fiber Configuration	Single mode fibers are placed first in the color sequence, followed by multimode fibers					
Outer Jacket	Premises: Flame retardant (FR), chemical resistant PVC Indoor/Outdoor: Black, FR, chemical resistant and sunlight resistant PVC					
Performance Compliance	UL 1651 CSA C22.2 No. 232 UL 1666 NFPA 262 Telcordia® GR-409-CORE, Issue 1 Premises: Telcordia GR-409-CORE, Issue 2 and ANSI/ICEA S-83-596 Indoor/Outdoor: Telcordia GR-20-CORE, Issue 3 - Water Penetration and ANSI/ICEA S-104-696 ANSI/TIA-568-C.3					
NRTL Programs	UL, c(UL) Listed OFNR UL, c(UL) Listed OFNP					
Sustainability	UL Certified EPD HPD USGBC® Member RoHS-compliant/RoHS 2-compliant REACH-compliant					

ENVIRONMENTAL SPECIFICATIONS Operation -40°C to +75°C Storage/Shipping -40°C to +75°C Installation -20°C to +65°C

PRODUCT DESCRIPTION

FIRST MANUFACTURER IN THE INDUSTRY to offer products that contribute toward LEED!

Superior Essex offers a broad line of products including multimode and single mode fibers within the same optical fiber cable. The use of hybrid fiber designs have proven useful to network systems designers because they offer the flexibility to run diverse applications upgrades without the need to install new cables. Superior Essex hybrid optical fiber cables are available in stranded tight buffer premises distribution cables, as well as all other loose tube cable product designs. Hybrid cables are used for standard campus networking applications and can be manufactured with a wide variety of fiber type combinations. They will save the designer and the customer significant costs over the lifetime of the physical cable plant.

Single mode fibers are assigned first in the color and/or sub-unit scheme. Multimode fibers are assigned remaining colors and/or sub-units.

APPLICATIONS

- Intrabuilding backbones
- Interbuilding backbone (in conduit)
- Conduit pathways
- Service entrance to communication closets

FEATURES

- UL[®] Certified Environmental Product Declaration (EPD)
- Health Product Declaration[™] (HPD[™])
- Telcordia[®] GR-409-CORE and GR-20-CORE qualified designs
- TeraGain[®] multimode and single mode under one jacket
- Compliant with
 ANSI/TIA-568-C.3
- Design options include: interlock
 armored, indoor/outdoor, tight
 buffered riser and plenum
- Subunits are color coded according to fiber type

- BENEFITS
 Contributes toward 1 LEED point under the Material and Resources credit (MRc)
- Contributes toward 1 LEED point under the MRc
- Most cost-effective cables for the varied applications
- Eliminates the need for additional pathway space for different cable types
- Assures compliance for all current networking applications
- Cable designs available for every application
- Easily identify fiber type

SUSTAINABILITY LEADERSHIP





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SINGLE MODE	SINGLE MODE OPTICAL FIBER TYPES				MULTIMODE OPT	FICAL FIBER	TYPES					
	Reduced	TeraFl	ex® Bend Re	sistant		TeraGain®	Laser	TeraGain Optimized	50/125		ex Bend Re Optimized	
	Water Peak	G.657.A1	G.657.A2	G.657.B3		62.5/125	10G/150	10G/300	10G/550	10G/150	10G/300	10G/550
Premises Jacket Colors*		Yell	ow		Premises Jacket Colors*	Orange			Ad	qua		
I/O Jacket Color		Bla	ick		I/O Jacket Color				Black			

*Other jacket colors available upon request.

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.



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			Fiber	Type and Fil	per Count	Nominal		Maximum Ter	nsile Loading	Minimum E	end Radius	
1:	Deut Niumheu	Confirmention	RWP	TeraGain®	TeraGain	Diameter	Nominal Weight	Install	Long Term	Install	Long Term	Dealera
Listing	Part Number	Configuration	SMF	62.5/125	10G/300	in (mm) Premises Di	lbs/kft (kg/km)	lbs (N)	lbs (N)	in (mm)	in (mm)	Package
OFNR	43008HGA1	Single unit	4	-	4	0.24 (6.0)	20 (30)	150 (660)	45 (200)	3.5 (90)	2.4 (60)	Reel
OFNR	43012HGA1	Single unit	6	6	-	0.24 (0.0)	25 (37)	150 (660)	45 (200)	3.8 (98)	2.6 (65)	Reel
OFNR	43012HGC1	Single unit	6	-	6	0.26 (6.5)	25 (37)	150 (660)	45 (200)	3.8 (98)	2.6 (65)	Reel
OFNR	43024HK1Q	Single unit	12	12	-	0.33 (8.5)	44 (66)	300 (1,320)	90 (400)	5.0 (128)	3.3 (85)	Reel
OFNR	43024HKB1	Single unit	12	-	12	0.33 (8.5)	44 (66)	300 (1,320)	90 (400)	5.0 (128)	3.3 (85)	Reel
OFNP	44008HGA1	Single unit	2	6	-	0.21 (5.4)	19 (28)	100 (440)	30 (130)	3.2 (81)	2.1 (54)	Reel
OFNP	44008HGB1	Single unit	4	-	4	0.21 (5.4)	19 (28)	100 (440)	30 (130)	3.2 (81)	2.1 (54)	Reel
OFNP	44012HGA1	Single unit	6	6	-	0.24 (6.2)	24 (35)	100 (440)	30 (130)	3.7 (93)	2.4 (62)	Reel
OFNP	44012HGC1	Single unit	6	-	6	0.24 (6.2)	24 (35)	100 (440)	30 (130)	3.7 (93)	2.4 (62)	Reel
OFNP	44012HKA1	Single unit	6	_	6	0.24 (6.2)	24 (35)	100 (440)	30 (130)	3.7 (93)	2.4 (62)	Reel
OFNP	44024HKA1	Single unit	12	12	-	0.31 (7.8)	42 (62)	300 (1,320)	90 (400)	4.6 (117)	3.1 (78)	Reel
OFNR	43018HGA1	Multi-unit	6	12	-	0.54 (13.7)	96 (143)	300 (1,320)	90 (400)	8.1 (206)	5.4 (137)	Reel
OFNR	43024HGA1	Multi-unit	12	12	-	0.57 (14.6)	117 (174)	300 (1,320)	90 (400)	8.6 (218)	5.7 (146)	Reel
OFNR	43024HGB1	Multi-unit	6	18	-	0.57 (14.6)	117 (174)	300 (1,320)	90 (400)	8.6 (218)	5.7 (146)	Reel
OFNR	43036HG01	Multi-unit	12	24	-	0.68 (17.4)	171 (255)	300 (1,320)	90 (400)	10.2 (260)	6.8 (174)	Reel
OFNR	43036HGB1	Multi-unit	24	12	_	0.68 (17.4)	171 (255)	300 (1,320)	90 (400)	10.2 (260)	6.8 (174)	Reel
OFNR	43036HGC1	Multi-unit	18	18	_	0.68 (17.4)	171 (255)	300 (1,320)	90 (400)	10.2 (260)	6.8 (174)	Reel
OFNR	43048HGB1	Multi-unit	24	24	-	0.69 (17.5)	155 (232)	300 (1,320)	90 (400)	10.3 (262)	6.9 (175)	Reel
OFNR	43048HGD1	Multi-unit	12	36	-	0.69 (17.5)	155 (232)	300 (1,320)	90 (400)	10.3 (262)	6.9 (175)	Reel
OFNR	43048HGC1	Multi-unit	24	-	24	0.69 (17.5)	155 (232)	300 (1,320)	90 (400)	10.3 (262)	6.9 (175)	Reel
OFNR	43060HGA1	Multi-unit	12	48		0.77 (19.5)	195 (291)	300 (1,320)	90 (400)	11.5 (292)	7.7 (195)	Reel
OFNR	43060HGC1	Multi-unit	24	36	-	0.77 (19.5)	195 (291)	300 (1,320)	90 (400)	11.5 (292)	7.7 (195)	Reel
OFNR	43072HGA1	Multi-unit	24	48	_	0.82 (21.0)	233 (348)	300 (1,320)	90 (400)	12.4 (314)	8.2 (210)	Reel
OFNR	43072HGC1	Multi-unit	36	36	-	0.82 (21.0)	233 (348)	300 (1,320)	90 (400)	12.4 (314)	8.2 (210)	Reel
OFNR	43096HGA1	Multi-unit	48	-	48	0.97 (24.7)	337 (503)	300 (1,320)	90 (400)	14.6 (370)	9.7 (247)	Reel
OFNP	44018HGA1	Multi-unit	6	12	-	0.54 (13.8)	117 (175)	150 (660)	45 (200)	8.1 (206)	5.4 (138)	Reel
OFNP	44024HGC1	Multi-unit	12	12	-	0.57 (14.6)	141 (211)	150 (660)	45 (200)	8.6 (219)	5.7 (146)	Reel
OFNP	44024HGD1	Multi-unit	6	18	-	0.57 (14.6)	141 (211)	150 (660)	45 (200)	8.6 (219)	5.7 (146)	Reel
OFNP	44024HGG1	Multi-unit	12	-	12	0.57 (14.6)	141 (211)	150 (660)	45 (200)	8.6 (219)	5.7 (146)	Reel
OFNP	44036HGA1	Multi-unit	12	24	-	0.69 (17.4)	206 (307)	150 (660)	45 (200)	10.3 (261)	6.9 (174)	Reel
OFNP	44036HGC1	Multi-unit	18	18	-	0.69 (17.4)	206 (307)	150 (660)	45 (200)	10.3 (261)	6.9 (174)	Reel
OFNP	44048HGA1	Multi-unit	12	36	-	0.67 (17.1)	184 (275)	150 (660)	45 (200)	10.1 (257)	6.7 (171)	Reel
OFNP	44048HGC1	Multi-unit	24	24	-	0.67 (17.1)	184 (275)	150 (660)	45 (200)	10.1 (257)	6.7 (171)	Reel
OFNP	44060HGA1	Multi-unit	12	48	-	0.74 (18.9)	229 (341)	150 (660)	45 (200)	11.2 (284)	7.4 (189)	Reel
OFNP	44060HGC1	Multi-unit	24	36	-	0.74 (18.9)	229 (341)	150 (660)	45 (200)	11.2 (284)	7.4 (189)	Reel
OFNP	44072HGA1	Multi-unit	24	48	-	0.81 (20.6)	276 (412)	150 (660)	45 (200)	12.2 (309)	8.1 (206)	Reel
OFNP	44072HGC1	Multi-unit	36	36	-	0.81 (20.6)	276 (412)	150 (660)	45 (200)	12.2 (309)	8.1 (206)	Reel
					In	door/Outdoo						
OFNR	W3012HGB1	Single unit	6	6	-	0.26 (6.5)	25 (38)	300 (1,335)	90 (400)	3.8 (97)	2.6 (65)	Reel
OFNR	W3012HGD1	Single unit	6	-	6	0.26 (6.5)	25 (38)	300 (1,335)	90 (400)	3.8 (97)	2.6 (65)	Reel
OFNR	W3018HGA1	Multi-unit	6	12	-	0.55 (14.1)	102 (152)	600 (2,640)	180 (800)	8.3 (211)	5.5 (141)	Reel
OFNR	W3024HGA1	Multi-unit	6	18	-	0.59 (14.9)	123 (184)	600 (2,640)	180 (800)	8.8 (224)	5.9 (149)	Reel
OFNR	W3024HGC1	Multi-unit	12	12	-	0.59 (14.9)	123 (184)	600 (2,640)	180 (800)	8.8 (224)	5.9 (149)	Reel
OFNR	W3024HGE1	Multi-unit	12	-	12	0.59 (14.9)	123 (184)	600 (2,640)	180 (800)	8.8 (224)	5.9 (149)	Reel
OFNR	W3036HGA1	Multi-unit	12	24	-	0.70 (17.7)	179 (267)	600 (2,640)	180 (800)	10.5 (266)	7.0 (177)	Reel
OFNR	W3036HGC1	Multi-unit	18	18	-	0.70 (17.7)	179 (267)	600 (2,640)	180 (800)	10.5 (266)	7.0 (177)	Reel
OFNR	W3036HGE1	Multi-unit	24	12	-	0.70 (17.7)	179 (267)	600 (2,640)	180 (800)	10.5 (266)	7.0 (177)	Reel
OFNR	W3048HGE1	Multi-unit	12	36	-	0.70 (17.8)	162 (242)	600 (2,640)	180 (800)	10.5 (267)	7.0 (178)	Reel
OFNR	W3048HGC1	Multi-unit	24	24	-	0.70 (17.8)	162 (242)	600 (2,640)	180 (800)	10.5 (267)	7.0 (178)	Reel
OFNR	W3048HGB1	Multi-unit	24	-	24	0.70 (17.8)	162 (242)	600 (2,640)	180 (800)	10.5 (267)	7.0 (178)	Reel
OFNR	W3060HGA1	Multi-unit	12	48	-	0.78 (19.8)	204 (304)	600 (2,640)	180 (800)	11.7 (297)	7.8 (198)	Reel
OFNR	W3072HGA1	Multi-unit	24	48	-	0.84 (21.3)	243 (362)	600 (2,640)	180 (800)	12.6 (320)	8.4 (213)	Reel
OFNR	W3072HGC1	Multi-unit	36	36	-	0.84 (21.3)	243 (362)	600 (2,640)	180 (800)	12.6 (320)	8.4 (213)	Reel
OFNR	W3096HGA1	Multi-unit	48	48	-	0.98 (25.0)	345 (515)	600 (2,640)	180 (800)	14.8 (375)	9.8 (250)	Reel
OFNR	W3096HGB1	Multi-unit	48	-	48	0.98 (25.0)	345 (515)	600 (2,640)	180 (800)	14.8 (375)	9.8 (250)	Reel
OFNR	W3144HGC1	Multi-unit	72	72	-	1.11 (28.3)	375 (559)	600 (2,640)	180 (800)	16.7 (425)	11.1 (283)	Reel

Other configurations available upon request. See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

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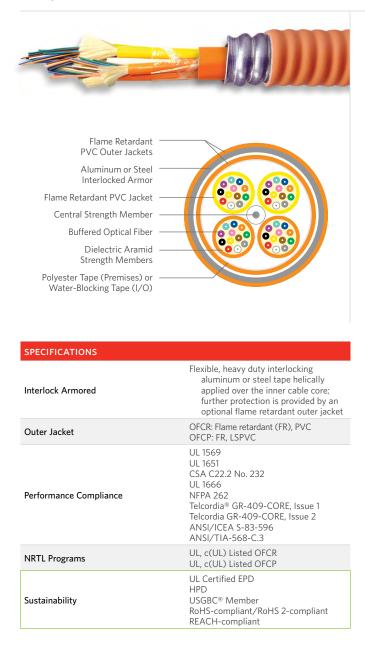
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Rev 7/15 Ed 13.1

Interlock Armored, Tight Buffer

OFCR/OFCP



PRODUCT DESCRIPTION

FIRST MANUFACTURER IN THE INDUSTRY to offer products that contribute toward LEED!

Interlock Armored Optical Fiber Cables provide an extremely well protected cable package ideally suited for mechanically challenging environments. The armor is available in aluminum or steel and comes with either an OFCR (riser) or OFCP (plenum) rating. This design offers the system designer a product that can be installed in areas where added mechanical protection and security are required. The flexible interlock armored cable design is also popular for retrofit applications and eliminates the need to install rigid conduit while still meeting building code guidelines.

APPLICATIONS

- Intrabuilding backbones
- Conduit pathways
- · Service entrance to communication closets

FE	ATURES	в	ENEFITS
•	UL® Certified Environmental Product Declaration (EPD)	•	Contributes toward 1 LEED point under the Material and Resources credit (MRc)
•	Health Product Declaration™ (HPD™)	•	Contributes toward 1 LEED point under the MRc
•	Thick, flexible metallic armor	•	Reduce incidences of circuit disruption due to rodents or mechanically abusive applications
•	Flame retardant, UL Listed designs	•	Eliminates the need for multiple cables for installation

ENVIRONMENTAL SPECIFICATIONS

	Riser	Plenum
Operation	-20°C to +75°C	0°C to +75°C
Storage/Shipping	-40°C to +75°C	-40°C to +75°C
Installation	-20°C to +65°C	0°C to +65°C

SUSTAINABILITY LEADERSHIP





CIROHS REACH green**@**wizard

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A-32 **SUPERIOR**

				Nominal		Maximum	Maximum Te	nsile Loading	Minimum E	end Radius
isting.	Part Number ¹	Configuration	Fiber Count	Diameter in (mm)	Nominal Weight lbs/kft (kg/km)	Compression lbf/in (N/cm)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)
OFCR	L3002x301	Single unit	2	0.54 (13.8)	90 (134)	286 (500)	150 (670)	45 (200)	8.2 (207)	5.4 (138)
OFCR	L3004x301	Single unit	4	0.54 (13.8)	93 (139)	286 (500)	150 (670)	45 (200)	8.2 (207)	5.4 (138)
OFCR	L3006x401	Single unit	6	0.54 (13.8)	96 (144)	286 (500)	150 (670)	45 (200)	8.2 (207)	5.4 (138)
OFCR	L3008x401	Single unit	8	0.54 (13.8)	101 (150)	287 (500)	150 (670)	45 (200)	8.2 (207)	5.4 (138)
OFCR	L3012x401	Single unit	12	0.61 (15.6)	116 (173)	286 (500)	150 (670)	45 (200)	9.2 (234)	6.1 (156)
OFCR	L3018xK1Q	Single unit	18	0.67 (17.1)	145 (216)	228 (400)	300 (1,340)	90 (400)	10.1 (256)	6.7 (171)
OFCR	L3024xK1Q	Single unit	24	0.73 (18.5)	174 (260)	228 (400)	300 (1,340)	90 (400)	11.0 (278)	7.3 (185)
OFCP	L4002x301	Single unit	2	0.50 (12.7)	78 (116)	286 (500)	150 (670)	45 (200)	7.5 (191)	5.0 (127)
OFCP	L4004x301	Single unit	4	0.50 (12.7)	79 (118)	286 (500)	150 (670)	45 (200)	7.5 (191)	5.0 (127)
OFCP	L4006x401	Single unit	6	0.50 (12.7)	88 (131)	286 (500)	150 (670)	45 (200)	7.5 (191)	5.0 (127)
OFCP	L4008x401	Single unit	8	0.50 (12.7)	90 (134)	286 (500)	150 (670)	45 (200)	7.5 (191)	5.0 (127)
OFCP	L4012x401	Single unit	12	0.55 (13.9)	104 (155)	286 (500)	150 (670)	45 (200)	8.2 (209)	5.5 (139)
OFCP	L4018xK1Q	Single unit	18	0.60 (15.2)	129 (192)	228 (400)	150 (670)	45 (200)	9.0 (229)	6.0 (152)
OFCP	L4024xK1Q	Single unit	24	0.62 (15.6)	139 (207)	228 (400)	150 (670)	45 (200)	9.2 (235)	6.2 (156)
OFCR	L3018x401	Multi-unit	18	0.95 (24.1)	240 (358)	228 (400)	300 (1,340)	90 (400)	14.2 (362)	9.5 (241)
OFCR	L3024x401	Multi-unit	24	0.93 (23.6)	265 (396)	228 (400)	300 (1,340)	90 (400)	14.0 (354)	9.3 (236)
OFCR	L3036x401	Multi-unit	36	1.05 (26.7)	351 (523)	171 (300)	300 (1,340)	90 (400)	15.7 (400)	10.5 (267)
OFCR	L3048x401	Multi-unit	48	1.02 (26.0)	321 (479)	171 (300)	300 (1,340)	90 (400)	15.4 (390)	10.2 (260)
OFCR	L3072x401	Multi-unit	72	1.14 (28.9)	409 (610)	171 (300)	600 (2,700)	180 (800)	17.1 (434)	11.4 (289)
OFCR	L3096x401	Multi-unit	96	1.17 (29.7)	443 (660)	171 (300)	600 (2,700)	180 (800)	17.5 (445)	11.7 (297)
OFCR	L3144x401	Multi-unit	144	1.35 (34.2)	573 (854)	171 (300)	600 (2,700)	180 (800)	20.2 (513)	13.5 (342)
OFCP	L4018x401	Multi-unit	18	0.85 (21.7)	257 (383)	228 (400)	300 (1,340)	90 (400)	12.8 (326)	8.5 (217)
OFCP	L4024x401	Multi-unit	24	0.88 (22.4)	276 (412)	228 (400)	300 (1,340)	90 (400)	13.2 (335)	8.8 (224)
OFCP	L4036x401	Multi-unit	36	1.02 (25.8)	375 (559)	171 (300)	300 (1,340)	90 (400)	15.2 (387)	10.2 (258)
OFCP	L4048x401	Multi-unit	48	0.91 (23.1)	339 (505)	171 (300)	300 (1,340)	90 (400)	13.6 (347)	9.1 (231)
OFCP	L4072x401	Multi-unit	72	1.10 (27.9)	442 (659)	171 (300)	600 (2,700)	180 (800)	16.5 (418)	11.0 (279)

¹Part numbers listed above include aluminum interlock armored. Steel interlock armored available upon request.

SINGLE MODE O	SINGLE MODE OPTICAL FIBER TYPES						MULTIMODE OPTICAL FIBER TYPES				
	Reduced TeraFlex [®] Bend Resistant				TeraGain®		Flex Bend Res r Optimized 5				
	Water Peak	G.657.A1	G.657.A2	G.657.B3			62.5/125	10G/150	10G/300	10G/550	
¹ Replace "x" with	: 3	К	J	L	¹ Re	eplace "x" with:	6	Μ	Ν	Р	
Jacket Colors*		Yell	ow		J	acket Colors*	Orange				

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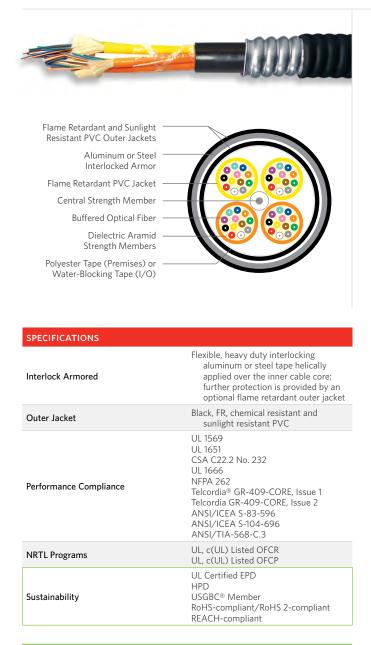
*Other jacket colors available upon request. See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.



INDEX

Indoor/Outdoor, Interlock Armored, Tight Buffer

OFCR/OFCP



PRODUCT DESCRIPTION

FIRST MANUFACTURER IN THE INDUSTRY to offer products that contribute toward LEED!

Interlock Armored Optical Fiber Cables provide an extremely well protected cable package ideally suited for harsh environments. The armor is available in aluminum or steel and comes with either an OFCR (riser) or OFCP (plenum) rating. This design offers the system designer a product that can be installed in areas where added mechanical protection and security are required. The flexible interlock armored cable design is also popular for retrofit applications and eliminates the need to install rigid conduit while still meeting building code guidelines.

APPLICATIONS

- Intrabuilding backbones
- Conduit pathways
- Service entrance to communication closets

 UL® Certified Environmental Product Declaration (EPD) Health Product Declaration™ (HPD™) Contributes toward 1 LEED point under the Material and Resources credit (MRc) Contributes toward 1 LEED point under the MRc Reduce incidences of circuit disruption due to rodents or 	FEATURES	BENEFITS
(HPD™) point under the MRc • Thick, flexible metallic armor • Reduce incidences of circuit		point under the Material and
	Thick, flexible metallic armor	 Reduce incidences of circuit disruption due to rodents or mechanically abusive applications
 Flame retardant, UL Listed designs Eliminates the need for multiple cables for installation 	,	Eliminates the need for multiple cables for installation
 Full line of Superior Essex cables available Customized designs reduces cable inventory requirements 		8

ENVIRONMENTAL SPECIFICATIONS

	Riser	Plenum
Operation	-40°C to +75°C	-40°C to +70°C
Storage/Shipping	-40°C to +75°C	-40°C to +70°C
Installation	-20°C to +65°C	0°C to +60°C

SUSTAINABILITY LEADERSHIP





CIROHS REACH

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INDEX

				Nominal		Maximum	Maximum Te	nsile Loading	Minimum E	Bend Radius
Listing	Part Number ¹	Configuration	Fiber Count	Diameter in (mm)	Nominal Weight lbs/kft (kg/km)	Compression lbf/in (N/cm)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)
OFCR	L3002xW01	Single unit	2	0.54 (13.8)	90 (134)	286 (500)	150 (670)	45 (200)	8.2 (207)	5.4 (138)
OFCR	L3004xW01	Single unit	4	0.54 (13.8)	93 (139)	286 (500)	150 (670)	45 (200)	8.2 (207)	5.4 (138)
OFCR	L3006xW01	Single unit	6	0.54 (13.8)	96 (144)	286 (500)	150 (670)	45 (200)	8.2 (207)	5.4 (138)
OFCR	L3008xW01	Single unit	8	0.54 (13.8)	101 (150)	286 (500)	150 (670)	45 (200)	8.2 (207)	5.4 (138)
OFCR	L3012xW01	Single unit	12	0.61 (15.6)	116 (173)	286 (500)	150 (670)	45 (200)	9.2 (234)	6.1 (156)
OFCP	L4002xW01	Single unit	2	0.50 (12.7)	78 (116)	286 (500)	150 (670)	45 (200)	7.5 (191)	5.0 (127)
OFCP	L4004xW01	Single unit	4	0.50 (12.7)	79 (118)	286 (500)	150 (670)	45 (200)	7.5 (191)	5.0 (127
OFCP	L4006xW01	Single unit	6	0.50 (12.7)	88 (131)	286 (500)	150 (670)	45 (200)	7.5 (191)	5.0 (127
OFCP	L4008xW01	Single unit	8	0.50 (12.7)	90 (134)	286 (500)	150 (670)	45 (200)	7.5 (191)	5.0 (127
OFCP	L4012xW01	Single unit	12	0.55 (13.9)	104 (155)	286 (500)	150 (670)	45 (200)	8.2 (209)	5.5 (139
OFCR	L3018xW01	Multi-unit	18	0.95 (24.1)	248 (370)	228 (400)	300 (1,340)	90 (400)	14.2 (362)	9.5 (241
OFCR	L3024xW01	Multi-unit	24	0.93 (23.6)	265 (396)	228 (400)	300 (1,340)	90 (400)	14.0 (354)	9.3 (236
OFCR	L3036xW01	Multi-unit	36	1.05 (26.7)	351 (523)	171 (300)	300 (1,340)	90 (400)	15.7 (400)	10.5 (267
OFCR	L3048xW01	Multi-unit	48	1.02 (26.0)	321 (479)	171 (300)	300 (1,340)	90 (400)	15.4 (390)	10.2 (260
OFCR	L3072xW01	Multi-unit	72	1.14 (28.9)	409 (610)	171 (300)	600 (2,700)	180 (800)	17.1 (434)	11.4 (289
OFCR	L3096xW01	Multi-unit	96	1.17 (29.7)	443 (660)	171 (300)	600 (2,700)	180 (800)	17.5 (445)	11.7 (297
OFCR	L3144xW01	Multi-unit	144	1.35 (34.2)	573 (854)	171 (300)	600 (2,700)	180 (800)	20.2 (513)	13.5 (342
OFCP	L4018x201	Multi-unit	18	0.85 (21.7)	257 (383)	228 (400)	300 (1,340)	90 (400)	12.8 (326)	8.5 (217
OFCP	L4024x201	Multi-unit	24	0.88 (22.4)	276 (412)	228 (400)	300 (1,340)	90 (400)	13.2 (335)	8.8 (224
OFCP	L4036x201	Multi-unit	36	1.02 (25.8)	375 (559)	171 (300)	300 (1,340)	90 (400)	15.2 (387)	10.2 (258
OFCP	L4048x201	Multi-unit	48	0.91 (23.1)	339 (505)	171 (300)	300 (1,340)	90 (400)	13.6 (347)	9.1 (231
OFCP	L4072x201	Multi-unit	72	1.10 (27.9)	442 (659)	171 (300)	300 (1,340)	90 (400)	16.5 (418)	11.0 (27

¹Part numbers listed above include aluminum interlock armored. Steel interlock armored available upon request.

SINGLE MODE OPTICAL	INGLE MODE OPTICAL FIBER TYPES				TICAL FIBER TYPE	ES		
	TeraFlex [®] Bend Resistant				TeraGain®	TeraFlex Bend Resistant Laser Optimized 50/125		
	G.657.A1	G.657.A2	G.657.B3		62.5/125	10G/150	10G/300	10G/550
¹ Replace "x" with:	К	J	L	¹ Replace "x" wit	h: 6	М	Ν	Р
Jacket Color Black		Jacket Color		Bla	ack			
*Other jacket colors available upo	n reauest.							

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

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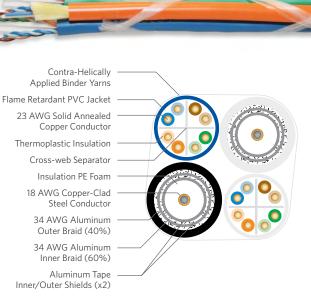
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Bundled Composite Category 6

CMR



SPECIFICATIONS Pair Count: 4 Conductor: Solid annealed copper AWG (mm): 23 (0.57) CAT 6 UTP Component Insulation: Thermoplastic Separator: Cross-web Jacket: Flame retardant PVC Characteristic Impedance (Ohms) 100 ± 15 Nominal Velocity of Propagation (%) 70 62.5/125 μm duplex, 5 mm round, Fiber Component* 900 µm tight buffered Conductor: Copper clad steel AWG (mm): 18 (1.02) Insulation: Polyethylene Inner Shield: 2.8 mil aluminum foil Inner Braid: 34 AWG aluminum (60%) Outer Shield: 1.8 mil aluminum foil Coax RG-6 Quad Shield Component Outer Braid: 34 AWG aluminum (40%) Jacket: PVC Electrical: See "Coax RG-6, Quad Shield CM/CATV, CMR/CATVR, CMP/ CL2P, Interlock Armored CMR" on page A-104 Flexible, dual binder yarns, contra-Binder Yarn

helically applied

PRODUCT DESCRIPTION

Superior Essex offers multiple configurations of skip-wrapped or bundled riser-rated (CMR) composite cables to support common drop configurations used in residential structured wiring installations. These composite cables improve installation time and reduce the chance of violating minimum bend radius of the cable. The individual components support many technologies, including extended bandwidth satellite service, 1000BASE-T and 100BASE-TX Ethernet and high-definition TV signals. This product is also available with an optical fiber cable.

APPLICATIONS

- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2
- ATM and token ring
- HDTV, CATV, CCTV and DBS

FEATURES

- · All-in-one cable design
- RG-6 Quad Shield coaxial cable . with typical bandwidth that exceeds 3 GHz
- Multiple constructions available
- Optional optical fiber premises cable
- Flexible, dual binder yarns, contra-helically applied

- Reduces installation time, provides additional protection to the individual cables
- "Future-Proofing" the installation. Supports extended bandwidth satellite service and high-definition TV signals
- Customized flexibility for the application

BENEFITS

- Integrated fiber reduces the need to install separate cables for home interior optical networks
- Maintains maximum flexibility and allows for easy breakout

SPECIFICATIONS (CONTINUED)

Component Performance Compliance	UL® 444 CSA C22.2 No. 214-08 UL 1666 ANSI/TIA-568-C.2 ANSI/ICEA S-83-596-2001 Article 800, NEC (NFPA 70) RoHS-compliant/RoHS 2-compliant
Component NRTL Programs	UL, c(UL) Listed CMR

PART NUMBERS AND PHYSICAL CHARACTERISTICS

		Type and Number of Cable Components			Nominal Diameter	Nominal Weight		
Listing	Part Number	CAT 6	RG-6 Quad	62.5 2-fiber*	in (mm)	lbs/kft (kg/km)	Package	
CMR	D3-2009SA	1	1	-	0.53 (14)	56 (124)	Cut to length on plywood ree	
CMR	D3-5009SA	1	2	-	0.56 (14)	88 (195)	Cut to length on plywood ree	
CMR	D3-A009SA	2	1	-	0.51 (13)	81 (178)	Cut to length on plywood ree	
CMR	D3-D009SA	2	2	-	0.67 (17)	113 (248)	Cut to length on plywood ree	
CMR	D3-J009SA	3	1	-	0.67 (17)	105 (232)	Cut to length on plywood ree	
CMR	D3-M009SA	3	2	-	0.81 (21)	137 (302)	Cut to length on plywood ree	
CMR	D3-S009SA	4	1	-	0.82 (21)	130 (286)	Cut to length on plywood ree	
CMR	D3-V009SA	4	2	-	0.85 (22)	162 (356)	Cut to length on plywood ree	
CMR	D3-B169SA	2	1	1	0.56 (14)	95 (210)	Cut to length on plywood ree	
CMR	D3-E169SA	2	2	1	0.51 (13)	127 (280)	Cut to length on plywood ree	
CMR	D3-K169SA	3	1	1	0.67 (17)	120 (263)	Cut to length on plywood ree	
CMR	D3-N169SA	3	2	1	0.67 (17)	152 (334)	Cut to length on plywood ree	
CMR	D3-T169SA	4	1	1	0.81 (21)	144 (317)	Cut to length on plywood ree	

*Other fiber types and fiber counts available upon request. UL is a registered trademark of UL LLC.



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Bundled Composite Category 5e

PRODUCT DESCRIPTION

Superior Essex offers multiple configurations of skip-wrapped or bundled riser-rated (CMR) composite cables to support common drop configurations used in residential structured wiring installations. These composite cables improve installation time and reduce the chance of violating minimum bend radius of the cable. The individual components support many technologies, including extended bandwidth satellite service, 1000BASE-T and 100BASE-TX Ethernet and high definition TV signals. This product is also available with an optical fiber cable.

APPLICATIONS

- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2
- ATM and token ring
- HDTV, CATV, CCTV and DBS

FEATURES

.

•	All-in-one cable design	•	Reduces installation time, provides additional protection to the individual cables
•	RG-6 Quad Shield coaxial cable with typical bandwidth that exceeds 3 GHz	•	"Future-Proofing" the installation. Supports extended bandwidth satellite service and high-definition TV signals
•	Multiple constructions available	•	Customized flexibility for the application
•	Optional optical fiber premises cable	•	Integrated fiber reduces the need to install separate cables for home interior optical networks
•	Flexible, dual binder yarns, contra-helically applied	•	Maintains maximum flexibility and allows for easy breakout
51	PECIFICATIONS (CONTINUED)		
		U	_® 444

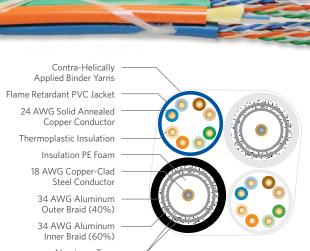
BENEFITS

CSA C22.2 No. 214-08

UL, c(UL) Listed CMR

ANSI/ICEA S-83-596-2001 Article 800, NEC (NFPA 70) RoHS-compliant/RoHS 2-compliant

UL 1666 ANSI/TIA-568-C.2



Aluminum Tape Inner/Outer Shields (x2)

SPECIFICATIONS	
CAT 5e UTP Component	Pair Count: 4 Conductor: Solid annealed copper AWG (mm): 24 (0.51) Insulation: Thermoplastic Jacket: Flame retardant PVC
Characteristic Impedance (Ohms)	100 ± 15
Nominal Velocity of Propagation (%)	70
Fiber Component*	62.5/125 μm duplex, 5 mm round, 900 μm tight buffered
Coax RG-6 Quad Shield Component	Conductor: Copper clad steel AWG (mm): 18 (1.02) Insulation: Polyethylene Inner Shield: 2.8 mil aluminum foil Inner Braid: 34 AWG aluminum (60%) Outer Shield: 1.8 mil aluminum foil Outer Braid: 34 AWG aluminum (40%) Jacket: PVC Electrical: See "Coax RG-6, Quad Shield CM/CATV, CMR/CATVR, CMP/ CL2P, Interlock Armored CMR" on page A-104
Binder Yarn	Flexible, dual binder yarns, contra- helically applied

PART NUMBERS AND PHYSICAL CHARACTERISTIC

Component Performance Compliance

Component NRTL Programs

NONDER	S AND PHISICAL CH	RIGHTERISTIC					
			Number of Cable	•	Nominal Diameter	Nominal Weight	
Listing	Part Number	CAT 5e	RG-6 Quad	62.5 2-fiber*	in (mm)	lbs/kft (kg/km)	Package
CMR	D1-2009S5	1	1	-	0.49 (12)	51 (113)	Cut to length on plywood reel
CMR	D1-5009S5	1	2	-	0.53 (13)	83 (183)	Cut to length on plywood reel
CMR	D1-A009S5	2	1	-	0.45 (12)	71 (156)	Cut to length on plywood reel
CMR	D1-D009S5	2	2	-	0.61 (16)	103 (226)	Cut to length on plywood reel
CMR	D1-J009S5	3	1	-	0.58 (15)	90 (198)	Cut to length on plywood reel
CMR	D1-M009S5	3	2	-	0.73 (19)	122 (269)	Cut to length on plywood reel
CMR	D1-S009S5	4	1	-	0.71 (18)	110 (241)	Cut to length on plywood reel
CMR	D1-V009S5	4	2	-	0.85 (22)	142 (311)	Cut to length on plywood reel
CMR	D1-3169S5	1	1	1	0.53 (13)	66 (145)	Cut to length on plywood reel
CMR	D1-6169S5	1	2	1	0.45 (12)	98 (215)	Cut to length on plywood reel
CMR	D1-B169S5	2	1	1	0.61 (16)	85 (187)	Cut to length on plywood reel
CMR	D1-E169S5	2	2	1	0.58 (15)	117 (258)	Cut to length on plywood reel
CMR	D1-K169S5	3	1	1	0.73 (19)	105 (230)	Cut to length on plywood reel
CMR	D1-N169S5	3	2	1	0.71 (18)	137 (300)	Cut to length on plywood reel
CMR	D1-T169S5	4	1	1	0.85 (22)	124 (273)	Cut to length on plywood reel
CMR	D1-W169S5	4	2	1	0.85 (22)	156 (343)	Cut to length on plywood reel

*Other fiber types and fiber counts available upon request. UL is a registered trademark of UL LLC.

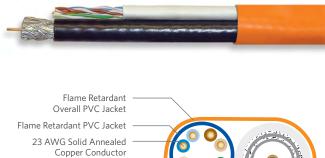
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Residential Broadband Riser

Coax RG-6 Quad Shield, Category 6 and Optical Fiber



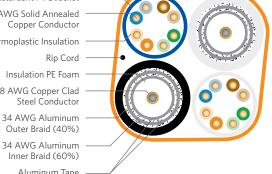
Thermoplastic Insulation

Insulation PE Foam

18 AWG Copper Clad Steel Conductor

34 AWG Aluminum Outer Braid (40%)

Inner Braid (60%) Aluminum Tape Inner/Outer Shields (x2)



PRODUCT DESCRIPTION

Superior Essex offers multiple configurations of Residential Broadband riser-rated (CMR) composite cables to support the three common drop configurations used in residential structured wiring installations. These composite cables improve installation time and reduce the chance of violating minimum bend radius of the cable. The individual components support many technologies, including extended bandwidth satellite service, 1000BASE-T and 100BASE-TX Ethernet and high-definition TV signals. This product is also available with a $62.5 \,\mu m$ duplex multimode fiber.

APPLICATIONS

- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2
- ATM and token ring
- HDTV, CATV, CCTV and DBS

FEATURES

- All-in-one cable design
- RG-6 Quad Shield coaxial cable . with typical bandwidth that exceeds 3 GHz
- Multiple constructions available
- TeraGain[®] multimode optical fiber (optional)
- Reduces installation time, provides additional protection to the individual cables
- "Future-Proofing" the . installation. Supports extended bandwidth satellite service and high-definition TV signals
- Customized flexibility for the application

BENEFITS

Integrated fiber reduces the need to install separate cables for home interior optical networks

SPECIFICATIONS	
CAT 6 UTP Component	Pair Count: 4 Conductor: Solid annealed copper AWG (mm): 23 (0.57) Insulation: Thermoplastic Jacket: Flame retardant PVC
Characteristic Impedance Ohms	100 ± 15
Nominal Velocity of Propagation %	70
Fiber Component	62.5/125 μm duplex, 5 mm round, 900 μm tight buffered
Coax RG-6 Quad Shield Component	Conductor: Copper clad steel AWG (mm): 18 (1.02) Insulation: Polyethylene Inner Shield: 2.8 mil aluminum foil Inner Braid: 34 AWG aluminum (60%) Outer Braid: 34 AWG aluminum (40%) Jacket: PVC Electrical: See "Coax RG-6, Quad Shield CM/CATV, CMR/CATVR, CMP/ CL2P, Interlock Armored CMR" on page A-104
Overall Jacket	Orange, flame retardant PVC
Performance Compliance	UL® 444 CSA C22.2 No. 214-08 UL 1666 ANSI/TIA-568-C.2 ANSI/ICEA S-83-596-2001 Article 800, NEC (NFPA 70) RoHS-compliant/RoHS 2-compliant
NRTL Programs	UL, c(UL) Listed CMR

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Description	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Package	Packages per Pallet
72-512-01	1 RG-6 Quad x 1 CAT 6	0.37 x 0.54 (9.27 x 13.59)	70 (104)	1,000 (305)	Plywood reel	4
72-621-03	2 RG-6 Quad x 2 CAT 6	0.62 x 0.54 (15.7 x 13.5)	130 (193)	500 (152)	Plywood reel	4
7A-621-03	2 RG-6 Quad x 2 CAT 6 x 1 Duplex 62.5/125 MMF	0.62 x 0.54 (15.7 x 13.6)	144 (214)	500 (152)	Plywood reel	4

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PREMISES CABLE

Residential Broadband Riser

Coax RG-6 Quad Shield, Category 5e and Optical Fiber

PRODUCT DESCRIPTION

Superior Essex offers multiple configurations of Residential Broadband riser-rated (CMR) composite cables to support the three common drop configurations used in residential structured wiring installations. These composite cables improve installation time and reduce the chance of violating minimum bend radius of the cable. The individual components support many technologies, including extended bandwidth satellite service, 1000BASE-T and 100BASE-TX Ethernet and high definition TV signals. This product is also available with a 62.5 µm duplex multimode fiber.

APPLICATIONS

- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2
- ATM and token ring

exceeds 3 GHz

fiber (optional)

• CAT 5e, 4-pair

HDTV, CATV, CCTV and DBS

with typical bandwidth that

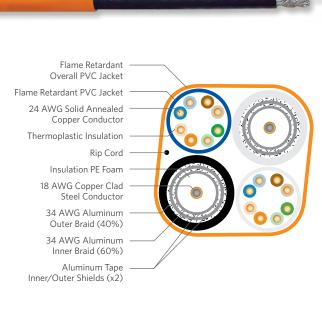
• TeraGain[®] multimode optical

FEATURES

 All-in-one cable design
 Reduces installation time, provides additional protection to the individual cables
 RG-6 Quad Shield coaxial cable
 "Future-Proofing" the

BENEFITS

- "Future-Proofing" the installation. Supports extended bandwidth satellite service and high-definition TV signals
- Multiple constructions available
 Customized flexibility
 for the application
 - Integrated fiber reduces the need to install separate cables for home interior optical networks
 - For high bandwidth applications



SPECIFICATIONS

CAT 5e UTP Component	Pair Count: 4 Conductor: Solid annealed copper AWG (mm): 24 (0.51) Insulation: Thermoplastic Jacket: Flame retardant PVC
Characteristic Impedance Ohms	100 ± 15
Nominal Velocity of Propagation %	70
Fiber Component	62.5/125 μm duplex, 5 mm round, 900 μm tight buffered
Coax RG-6 Quad Shield Component	Conductor: Copper clad steel AWG (mm): 18 (1.02) Insulation: Polyethylene Inner Shield: 2.8 mil aluminum foil Inner Braid: 34 AWG aluminum (60%) Outer Shield: 1.8 mil aluminum foil Outer Braid: 34 AWG aluminum (40%) Jacket: PVC Electrical: See "Coax RG-6, Quad Shield CM/CATV, CMR/CATVR, CMP/ CL2P, Interlock Armored CMR" on page A-104
Overall Jacket	Orange, flame retardant PVC
Performance Compliance	UL® 444 CSA C22.2 No. 214-08 UL 1666 ANSI/TIA-568-C.2 ANSI/ICEA S-83-596-2001 Article 800, NEC (NFPA 70) RoHS-compliant/RoHS 2-compliant
NRTL Programs	UL, c(UL) Listed CMR

PART NUMBERS AND PHYSICAL CHARACTERISTICS									
Part Number	Description	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Package	Packages per Pallet			
72-312-01	1 RG-6 Quad x 1 CAT 5e	0.365 x 0.535 (9.27 x 13.59)	73 (109)	1,000 (305)	Plywood reel	4			
72-421-03	2 RG-6 Quad x 2 CAT 5e	0.640 x 0.535 (16.00 x 13.59)	135 (201)	500 (152)	Plywood reel	4			
7A-421-03	2 RG-6 Quad x 2 CAT 5e x 1 Duplex 62.5/125 MMF	0.660 x 0.537 (16.80 x 13.64)	149 (222)	500 (152)	Plywood reel	4			

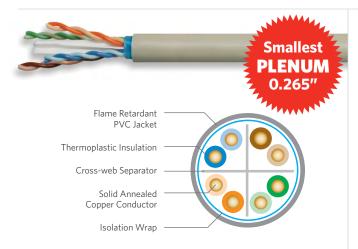
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CMR/CMP



SPECIFICATIONS	
Pair Count	4
Conductor	Solid annealed copper
AWG (mm)	23 (0.57)
Insulation	CMR: Thermoplastic CMP: FEP
Insulation Colors	Pair 1: ColorTip Light Blue, Blue Pair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, Brown
Separator	Cross-web
Isolation Wrap	Proprietary construction
Jacket	CMR: Flame retardant (FR) PVC CMP: FR, low smoke PVC
Characteristic Impedance Ohms	100 ± 15
Velocity of Propagation %	CMR: 66 CMP: 71
Performance Compliance	UL 444 CSA C22.2 No. 214-08 UL 1666 NFPA 262 ANSI/TIA-568-C.2 Article 800, NEC (NFPA 70)
NRTL Programs	UL Verified CAT 6A UL, c(UL) Listed CMR UL, c(UL) Listed CMP
Sustainability	UL Certified EPD HPD Multi-Attribute Certification USGBC® Member RoHS-compliant/RoHS 2-compliant REACH-compliant

PRODUCT DESCRIPTION

FIRST MANUFACTURER IN THE INDUSTRY to offer products that contribute toward LEED!

10Gain[®] **XP**, with its non-conductive Isolation Wrap, is the first Category 6A cable without a continuous shield to offer 7 dB margin over Alien Crosstalk (AXT) performance requirements in ANSI/TIA-568-C.2. The uniquely designed Isolation Wrap contains discontinuous sections of metallized material, held in place by a polymeric layer. **10G**ain **XP** has a nominal 0.265 (CMP) or 0.275 (CMR) inch diameter which allows for higher cable density than other CAT 6A cable products. **10G**ain **XP** fully complies with UL[®] 444 requirements for an unshielded twisted pair product. 10Gain XP is ideal for applications requiring higher levels of current and simultaneously up to 10 Gigabit Ethernet.

APPLICATIONS

- 10BASE-T through 10GBASE-T Ethernet
- Power over Ethernet (PoE) IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2
- 4PPoE+ IEEE 802.3bt Type 3 and 4 draft D1.2
- ATM and token ring
- · Backward compatible to legacy protocols and applications

FEATURES	BENEFITS
UL Certified Environmental Product Declaration (EPD)	 Contributes toward 1 LEED point under the Material and Resources credit (MRc)
 Health Product Declaration[™] (HPD[™]) 	 Contributes toward 1 LEED point under the MRc
 Multi-Attribute Certification by GreenCircle Certified, LLC 	 Offers an overview of the sustainability of a product, its packaging and manufacturing
Non-conductive Isolation Wrap	 Guaranteed 7 dB AXT performance in virtually any installation environment without grounding or bonding
Tested to 650 MHz	 Assures ample bandwidth headroom
Nominal 0.265 (CMP) or 0.275 (CMR) inch diameter	 Allows higher cable density, smaller bend radius and lowers installation costs
 CableID[®] alpha numeric code printed every 2 feet 	 Allows both ends of a cable run to be easily identifiable without the need to separately label or tone the cable
 ColorTip[®] circuit identification system 	 Easily identifiable conductor mates even in low-light environments
Tested up to 100 W in most	Offers 82% power efficiency

PART NUMPERS AND REVSICAL CHARACTERISTICS

TART NOMBERS AND IT	ITSICAL CHARACTERISTIC				
Listing	Part Number ¹	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet
CMR	6H-246-xA	0.275 (6.99)	29 (43)	1,000' BrakeBox	12
CMR	6H-272-xA	0.275 (6.99)	29 (43)	1,000' Plywood reel	12
CMP	6H-246-xB	0.265 (6.73)	35 (52)	1,000' BrakeBox	12
CMP	6H-272-xB	0.265 (6.73)	35 (52)	1,000' Plywood reel	12

JACKET COLORS									
¹ Replace "x" with:	Blue = 2	Gray = 3	White = 4	Green = 5	Yellow = 6	Purple = 7	Red = 9	Orange = D	Black = E

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severe temperature conditions in a bundle of 100 cables

and lowest temperature increase

inside a bundle

	Insertion Los	ss @ 20°C									
		Maximum NEXT Minimum dB/100 m dB/100 m			ACR Mi		PSNEXT N		PSACR Minimum		
Frequency		dB/100 m			dB/10		dB/10		dB/100 m		
MHz	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	
1	2.1	2.0	74.3	78.3	72.2	77.3	72.3	77.3	70.2	76.3	
4	3.8	3.7	65.3	69.3	61.5	66.6	63.3	68.3	59.5	65.6	
8	5.3	5.1	60.8	64.8	55.4	60.6	58.8	63.8	53.4	59.6	
10	5.9	5.7	59.3	63.3	53.4	58.6	57.3	62.3	51.4	57.6	
16	7.5	7.3	56.2	60.2	48.8	54.0	54.2	59.2	46.8	53.0	
20	8.4	8.1	54.8	58.8	46.4	51.7	52.8	57.8	44.4	51.2	
25	9.4	9.1	53.3	57.3	44.0	49.7	51.3	56.3	42.0	49.0	
31.25	10.5	10.2	51.9	55.9	41.4	47.2	49.9	54.9	39.4	46.7	
62.5	15.0	14.4	47.4	51.4	32.4	39.0	45.4	50.4	30.4	38.4	
100	19.1	18.4	44.3	48.3	25.2	32.4	42.3	47.3	23.2	31.7	
200	27.6	26.5	39.8	43.8	12.2	20.1	37.8	42.8	10.2	19.5	
250	31.1	29.8	38.3	42.3	7.3	15.5	36.3	41.3	5.3	15.1	
300	34.3	32.9	37.1	41.1	2.9	11.4	35.1	40.1	0.9	10.8	
400	40.1	38.3	35.3	39.3		4.6	33.3	38.3		3.6	
500	45.3	43.0	33.8	37.8			31.8	36.8			
600		47.5		36.4				35.6			
650		49.7		35.9				35.1			

Return Loss Minimun Frequency dB/100 m			ACRF Mi dB/10		PSACRF N dB/10		PSANEXT / dB/10		PSAACRF Minimum dB/100 m		
MHz	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	Guaranteed	Typical	
1	20.0	22.0	67.8	73.8	64.8	70.8	74.0	96.5	74.0	80.0	
4	23.0	25.0	55.8	61.8	52.8	58.8	74.0	87.5	73.2	79.2	
8	24.5	26.5	49.7	55.7	46.7	52.7	74.0	83.0	67.1	73.1	
10	25.0	27.0	47.8	53.8	44.8	50.8	74.0	81.5	65.2	71.2	
16	25.0	27.0	43.7	49.7	40.7	46.7	74.0	80.0	61.1	67.1	
20	25.0	27.0	41.8	47.8	38.8	44.8	74.0	80.0	59.2	65.2	
25	24.3	26.3	39.8	45.8	36.8	42.8	74.0	80.0	57.2	63.2	
31.25	23.6	25.6	37.9	43.9	34.9	40.9	74.0	80.0	55.3	61.3	
62.5	21.5	23.5	31.9	37.9	28.9	34.9	72.6	78.6	49.3	55.3	
100	20.1	22.1	27.8	33.8	24.8	30.8	69.5	75.5	45.2	51.2	
200	18.0	20.0	21.8	27.8	18.8	24.8	65.0	71.0	39.2	45.2	
250	17.3	19.3	19.8	25.8	16.8	22.8	63.5	69.5	37.2	43.2	
300	16.8	18.8	18.3	24.3	15.3	21.3	62.3	68.3	35.7	41.7	
400	15.9	17.9	15.8	21.8	12.8	18.8	60.5	66.5	34.2	39.2	
500	15.2	17.2	13.8	19.8	10.8	16.8	59.0	65.0	31.2	37.2	
600		16.7		18.2		15.2		63.8		35.6	
650		16.4		17.5		14.5		63.3		34.9	

SUSTAINABILITY LEADERSHIP

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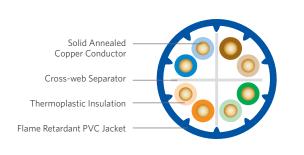


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INDEX



SPECIFICATIONS	
Pair Count	4
Conductor	Solid annealed copper
AWG (mm)	23 (0.57)
Insulation	CMR: Polyolefin CMP: FEP
Insulation Colors	Pair 1: ColorTip Light Blue, Blue Pair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, Brown
Separator	Cross-web
Jacket	CMR: Flame retardant (FR) PVC CMP: FR, low smoke PVC
Characteristic Impedance Ohms	100 ± 15
Velocity of Propagation %	CMR: 65 CMP: 68
Performance Compliance	UL 444 CSA C22.2 No. 214-08 UL 1666 NFPA 262 ANSI/TIA-568-C.2 Article 800, NEC (NFPA 70)
NRTL Programs	UL Verified CAT 6A UL, c(UL) Listed CMR UL, c(UL) Listed CMP
Sustainability	UL Certified EPD HPD Multi-Attribute Certification USGBC® Member ROHS-compliant/RoHS 2-compliant REACH-compliant

PRODUCT DESCRIPTION

FIRST MANUFACTURER IN THE INDUSTRY

10Gain® cable brings Category 6A UTP performance to a new level. This cable meets the internal and alien cross-talk performance requirements of ANSI/TIA-568-C.2 as tested in a 6 around 1 configuration. With guaranteed performance out to 500 MHz and independently verified and monitored by UL, **10G**ain CAT 6A cable demonstrates superior capability for 10 Gigabit Ethernet (10 GbE) and all other bandwidth intensive and legacy applications.

APPLICATIONS

- 10BASE-T through 10GBASE-T Ethernet
- Power over Ethernet (PoE) IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2
- ATM and token ring
- Backward compatible to legacy protocols and applications

FEATURES

identification system

FEATURES	BENEFITS
UL Certified Environmental Product Declaration (EPD)	 Contributes toward 1 LEED point under the Material and Resources credit (MRc)
 Health Product Declaration[™] (HPD[™]) 	 Contributes toward 1 LEED point under the MRc
 Multi-Attribute Certification by GreenCircle Certified, LLC 	 Offers an overview of the sustainability of a product, its packaging and manufacturing
UL Verified CAT 6A	 Assures consistent, worry-free performance
Tested to 650 MHz	 Assures ample bandwidth headroom
 Exceptional PSACR and PSAACRF (PSAELFEXT) performance 	 Performance assurance for 10 GbE and multiple high- bandwidth applications
 CableID[®] alpha numeric code printed every 2 feet 	 Allows both ends of a cable run to be easily identifiable without the need to separately label or tone the cable
 QuickCount[®] marking system in feet and meters 	 Provides remaining length of cable on reel
 ColorTip[®] circuit 	 Easily identifiable conductor

mates even in low-light environments

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Listing	Part Number ¹	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet
CMR	6A-272-xA	0.350 (8.9)	51 (76)	1,000' Plywood reel	12
CMP	6A-246-xB	0.295 (7.5)	43 (64)	1,000' BrakeBox	12
CMP	6A-272-xB	0.295 (7.5)	43 (64)	1,000' Plywood reel	12

JACKET COLORS								
¹ Replace "x" with:	Blue = 2	Gray = 3	White = 4	Green = 5	Yellow = 6	Purple = 7	Red = 9	Orange = D



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ELECTRICAL	SPECIFICAT	IONS													
	Insertion Loss @ 20°C Maximum dB/100 m				NEXT Minimum dB/100 m			ACR Minimum dB/100 m			(T Minim 3/100 m	ium	PSACR Minimum dB/100 m		
Frequency	TIA-568-C.2	568-C.2 Superior Essex		TIA-568-C.2	Superi	or Essex	TIA-568-C.2	Superi	or Essex	TIA-568-C.2	Superio	or Essex	TIA-568-C.2	Superi	or Essex
MHz	Specified	Guar.	Typical	Specified	Guar.	Typical	Calculated	Guar.	Typical	Specified	Guar.	Typical	Calculated	Guar.	Typical
1	2.7	2.0	1.7	74.3	75.3	92.4	72.2	74.3	90.7	72.3	74.3	90.3	70.2	72.3	88.7
4	3.8	3.6	3.4	65.3	66.3	82.2	61.5	63.5	78.9	63.3	65.3	80.5	59.5	61.5	77.2
8	5.3	5.1	4.7	60.8	61.8	78.0	55.5	57.5	73.3	58.8	60.8	76.4	53.5	55.5	71.7
10	5.9	5.7	5.3	59.3	60.3	76.5	53.4	55.4	71.2	57.3	59.3	74.8	51.4	53.4	69.6
16	7.5	7.2	6.7	56.2	57.2	73.8	48.8	50.8	67.2	54.2	56.2	72.0	46.7	48.8	65.4
20	8.4	8.1	7.6	54.8	55.8	71.1	46.4	48.5	63.6	52.8	54.8	69.7	44.4	46.5	62.2
25	9.4	9.1	8.5	53.3	54.3	68.9	43.9	46.0	60.5	51.3	53.3	67.4	41.9	44.0	59.1
31.25	10.5	10.2	9.5	51.9	52.9	68.3	41.4	43.5	58.9	49.9	51.9	67.0	39.4	41.5	57.6
62.5	15.0	14.5	13.6	47.4	48.4	64.3	32.4	34.5	50.8	45.4	47.4	62.3	30.4	32.5	49.0
100	19.1	18.5	17.4	44.3	45.3	61.2	25.2	27.3	44.0	42.3	44.3	59.2	23.2	25.3	42.2
200	27.6	26.8	25.1	39.8	40.8	57.1	12.2	14.3	32.4	37.8	39.8	54.9	10.2	12.3	30.3
250	31.1	30.2	28.2	38.3	39.3	55.9	7.2	9.4	27.6	36.3	38.3	53.3	5.2	7.4	25.4
300	34.3	33.3	31.1	37.1	38.1	53.7	2.8	5.0	22.8	35.1	37.1	51.5	0.8	3.0	20.9
350	37.2	36.3	33.8	36.1	37.1	52.7		1.0	19.1	34.1	36.1	50.1			16.9
400	40.1	39.0	36.3	35.3	37.3	52.4			15.3	33.3	36.3	49.3			13.5
500	45.3	44.1	41.0	33.8	35.8	48.7			7.7	31.8	34.8	46.2			5.8
550			43.2			45.6			2.3			43.7			1.0
600			45.3			44.0						42.2			
650			47.5			42.0						40.2			

		.oss Mini 8/100 m	mum		F Minimu 3/100 m	m	PSACRF Minimum dB/100 m			PSANEXT Minimum dB/100 m			PSAACRF Minimum dB/100 m		
Frequency	TIA-568-C.2	.2 Superior Essex		TIA-568-C.2	Superi	or Essex	TIA-568-C.2 Superior Essex		TIA-568-C.2 Superi		ior Essex TIA-568-C.2		Superior Essex		
MHz	Specified	Guar.	Typical	Specified	Guar.	Typical	Specified	Guar.	Typical	Specified	Guar.	Typical	Specified	Guar.	Typical
1	20.0	20.0	27.3	67.8	72.8	83.6	64.8	69.8	81.2	67.0	67.0	94.8	67.0	67.0	71.2
4	23.0	23.0	33.1	55.8	60.8	72.0	52.8	57.8	69.6	67.0	67.0	85.7	66.2	66.2	70.3
8	24.5	24.5	35.3	49.7	54.7	66.2	46.7	51.7	63.7	67.0	67.0	81.2	60.1	60.1	64.3
10	25.0	25.0	36.0	47.8	52.8	64.4	44.8	49.8	61.8	67.0	67.0	79.8	58.2	58.2	62.4
16	25.0	25.0	36.5	43.7	48.7	60.3	40.7	45.7	57.8	67.0	67.0	76.7	54.1	54.1	58.3
20	25.0	25.0	38.4	41.8	46.8	58.4	38.8	43.8	56.0	67.0	67.0	75.3	52.2	52.2	56.4
25	24.3	24.3	37.6	39.8	44.8	56.3	36.8	41.8	54.1	67.0	67.0	73.8	50.2	50.2	54.4
31.25	23.6	23.6	37.8	37.9	42.9	54.3	34.9	39.9	52.1	67.0	67.0	72.4	48.3	48.3	52.5
62.5	21.5	21.5	36.6	31.9	36.9	48.3	28.9	33.9	46.1	65.6	65.6	67.8	42.3	42.3	46.5
100	20.1	20.1	33.5	27.8	32.8	44.5	24.8	29.8	42.3	62.5	62.5	64.8	38.2	38.2	42.4
200	18.0	18.0	30.7	21.8	26.8	38.4	18.8	23.8	36.2	58.0	58.0	60.3	32.2	32.2	36.4
250	17.3	17.3	30.3	19.8	24.8	35.0	16.8	21.8	33.4	56.5	56.5	58.8	30.2	30.2	34.4
300	16.8	16.8	26.9	18.3	23.3	33.8	15.3	20.3	31.6	55.3	55.3	57.6	28.7	28.7	32.8
350	16.3	16.3	27.0	16.9	21.9	32.5	13.9	18.9	30.4	54.3	54.3	56.6	27.3	27.3	31.5
400	15.9	15.9	26.9	15.8	19.8	31.8	12.8	17.8	29.8	53.5	53.5	55.7	26.2	26.2	30.3
500	15.2	15.2	24.8	13.8	17.8	29.8	10.8	15.8	28.1	52.0	52.0	54.3	24.2	24.2	28.4
550			24.2			28.8			26.9			53.7			27.6
600			22.7			28.6			26.4			53.1			26.8
650			19.6			27.2			25.3			52.6			26.1

SUSTAINABILITY LEADERSHIP

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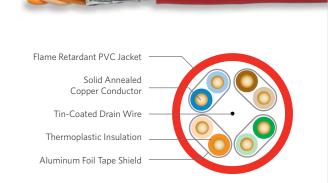
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Category 6A U/FTP (STP)

CMR/CMP



SPECIFICATIONS	
Configuration	Copper pairs each surrounded by aluminum/Mylar foil with center drain wire and jacket
Pair Count	4
Conductor	Solid annealed copper
AWG (mm)	23 (0.57)
Insulation	CMR: Polyolefin CMP: FEP
Insulation Colors	Pair 1: ColorTip Light Blue, Blue Pair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, Brown
Drain Wire	Tinned copper
Jacket	CMR: Flame retardant (FR) PVC CMP: FR, low smoke PVC
Characteristic Impedance Ohms	100 ± 15
Nominal Velocity of Propagation %	CMR: 73 CMP: 77
Performance Compliance	UL 444 CSA C22.2 No. 214-08 UL 1666 NFPA 262 ANSI/TIA-568-C.2 Article 800, NEC (NFPA 70)
NRTL Programs	UL, c(UL) or ETL, c(ETL) Listed CMR UL, c(UL) or ETL, c(ETL) Listed CMP
Sustainability	UL Certified EPD HPD Multi-Attribute Certification USGBC® Member RoHS-compliant/RoHS 2-compliant REACH-compliant

PRODUCT DESCRIPTION

FIRST MANUFACTURER IN THE INDUSTRY

Superior Essex offers Shielded Twisted Pair Category 6A cables in both plenum and riser versions. The cable has guaranteed performance to 600 MHz and meets or exceeds ANSI/TIA-568-C.2 for CAT 6A cables required for 10GBASE-T applications. The cable consists of four (4) balanced 23 AWG copper pairs. Each pair is wrapped with a Mylar® backed aluminum foil with the drain wire in the center of all 4 copper pairs. The wrapped pairs are then jacketed with an appropriate flexible PVC jacket for either plenum or riser applications.

APPLICATIONS

- 10BASE-T through 10GBASE-T Ethernet
- Power over Ethernet (PoE) IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2 .
- ATM and token ring .
- Backward compatible to legacy protocols and applications

FEATURES BENEFITS UL Certified Environmental Contributes toward 1 LEED Product Declaration (EPD) point under the Material and Resources credit (MRc) Health Product Declaration[™] Contributes toward 1 LEED (HPD™) point under the MRc Multi-Attribute Certification Offers an overview of the . by GreenCircle Certified, LLC sustainability of a product, its packaging and manufacturing Individually foil shielded pairs Protects against EMI/RFI and provides exceptional NEXT, PSNEXT, ELFEXT, and electrical performance Exceeds specification Meets 10GBASE-T application ANSI/TIA-568-C.2 for CAT 6A requirements for both Insertion cable performance Loss and Return Loss and exceeds requirements for alien and internal crosstalk performance . UL 1666 and NFPA 262 fire rating • Riser and plenum rated designs options help to reduce additional expensive materials required to meet building safety codes QuickCount[®] marking system Provides remaining length in feet and meters of cable on reel ColorTip® circuit Easily identifiable conductor identification system mates even in low-light

environments

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Listing	Part Number ¹	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet
CMR	6S-220-xA	0.32 (8.1)	44 (66)	1,000' Plywood reel	12
CMP	6S-220-xB	0.32 (8.1)	51 (76)	1,000' Plywood reel	12

JACKET COLORS								
¹ Replace "x" with:	Blue = 2	Gray = 3	White = 4	Green = 5	Yellow = 6	Red = 9	Orange = D	Black = E



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	Insertion Loss @ 20°C Maximum dB/100 m		Maximum NEXT Minimum			ım	ACR Minimum dB/100 m				(T Minim 3/100 m	ium	PSACR Minimum dB/100 m		
Frequency	TIA-568-C.2	Superio	or Essex	TIA-568-C.2	Superi	or Essex	TIA-568-C.2	Superi	or Essex	TIA-568-C.2	Superi	or Essex	TIA-568-C.2	Superi	or Essex
MHz	Specified	Guar.	Typical	Specified	Guar.	Typical	Calculated	Guar.	Typical	Specified	Guar.	Typical	Calculated	Guar.	Typical
1	2.1	2.1	2.0	74.3	82.3	84.8	72.2	80.2	82.8	72.3	80.3	82.8	70.2	78.2	80.8
4	3.8	3.8	3.7	65.3	73.3	75.8	61.5	69.5	72.1	63.3	71.3	73.8	59.5	67.5	70.1
8	5.3	5.3	5.2	60.8	68.8	71.3	55.5	63.5	66.1	58.8	66.8	69.3	53.5	61.5	64.1
10	5.9	5.9	5.8	59.3	67.3	69.8	53.4	61.4	64.0	57.3	65.3	67.8	51.4	59.4	62.0
16	7.5	7.5	7.3	56.2	64.2	66.7	48.7	56.7	59.4	54.2	62.2	64.7	46.7	54.7	57.4
20	8.4	8.4	8.2	54.8	62.8	65.3	46.4	54.4	57.1	52.8	60.8	63.3	44.4	52.4	55.1
25	9.4	9.4	9.2	53.3	61.3	63.8	43.9	51.9	54.6	51.3	59.3	61.8	41.9	49.9	52.6
31.25	10.5	10.5	10.3	51.9	59.9	62.4	41.4	49.4	52.1	49.9	57.9	60.4	39.4	47.4	50.1
62.5	15.0	15.0	14.7	47.4	55.4	57.9	32.4	40.4	43.2	45.4	53.4	55.9	30.4	38.4	41.2
100	19.1	19.1	18.8	44.3	52.3	54.8	25.2	33.2	36.0	42.3	50.3	52.8	23.2	31.2	34
200	27.6	27.6	27.0	39.8	47.8	50.3	12.2	20.2	23.3	37.8	45.8	48.3	10.2	18.2	21.3
250	31.1	31.1	30.4	38.3	46.3	48.8	7.2	15.2	18.4	36.3	44.3	46.8	5.2	13.2	16.4
300	34.3	34.3	33.6	37.1	45.1	47.6	2.8	10.8	14.0	35.1	43.1	45.6	0.8	8.8	12.0
350	37.2	37.2	36.5	36.1	44.1	46.6		6.9	10.1	34.1	42.1	44.6		4.9	8.1
400	40.1	40.1	39.3	35.3	43.3	45.8		3.2	6.5	33.3	41.3	43.8		1.2	4.5
500	45.3	45.3	44.4	33.8	41.8	44.3				31.8	39.8	42.3			
600		50.1	49.5		40.6	43.1					38.6	41.1			

		.oss Mini 3/100 m	mum		F Minimu 3/100 m	m		RF Minim 3/100 m	um		XT Minir 3/100 m	num		CRF Minir 3/100 m	
Frequency	TIA-568-C.2	Superio	or Essex	TIA-568-C.2	Superio	or Essex	TIA-568-C.2	Superi	or Essex	TIA-568-C.2	Superi	or Essex	TIA-568-C.2	Superi	or Essex
MHz	Specified	Guar.	Typical	Specified	Guar.	Typical	Specified	Guar.	Typical	Specified	Guar.	Typical	Specified	Guar.	Typical
1	20.0	20.0	20.6	67.8	69.8	73.8	64.8	66.8	70.8	67.0	70.0	72.0	67.0	70.0	72.0
4	23.0	23.0	23.7	55.8	57.8	61.8	52.8	54.8	58.8	67.0	70.0	72.0	66.2	69.2	71.2
8	24.5	24.5	25.3	49.7	51.7	55.7	46.7	48.7	52.7	67.0	70.0	72.0	60.1	63.1	65.1
10	25.0	25.0	25.8	47.8	49.8	53.8	44.8	46.8	50.8	67.0	70.0	72.0	58.2	61.2	63.2
16	25.0	25.0	25.8	43.7	45.7	49.7	40.7	42.7	46.7	67.0	70.0	72.0	54.1	57.1	59.1
20	25.0	25.0	25.8	41.8	43.8	47.8	38.8	40.8	44.8	67.0	70.0	72.0	52.2	55.2	57.2
25	24.3	24.3	25.1	39.8	41.8	45.8	36.8	38.8	42.8	67.0	70.0	72.0	50.2	53.2	55.2
31.25	23.6	23.6	24.3	37.9	39.9	43.9	34.9	36.9	40.9	67.0	70.0	72.0	48.3	51.3	53.3
62.5	21.5	21.5	22.2	31.9	33.9	37.9	28.9	30.9	34.9	65.6	68.6	70.6	42.3	45.3	47.3
100	20.1	20.1	20.7	27.8	29.8	33.8	24.8	26.8	30.8	62.5	65.5	67.5	38.2	41.2	43.2
200	18.0	18.0	18.5	21.8	23.8	27.8	18.8	20.8	24.8	58.0	61.0	63.0	32.2	35.2	37.2
250	17.3	17.3	17.8	19.8	21.8	25.8	16.8	18.8	22.8	56.5	59.5	61.5	30.2	33.2	35.2
300	16.8	16.8	17.3	18.3	20.3	24.3	15.3	17.3	21.3	55.3	58.3	60.3	28.7	31.7	33.7
350	16.3	16.3	16.8	16.9	18.9	22.9	13.9	15.9	19.9	54.3	57.3	59.3	27.3	30.3	32.3
400	15.9	15.9	16.4	15.8	17.8	21.8	12.8	14.8	18.8	53.5	56.5	58.5	26.2	29.2	31.2
500	15.2	15.2	15.7	13.8	15.8	19.8	10.8	12.8	16.8	52.0	55.0	57.0	24.2	27.2	29.2
600			15.1		14.2	18.2		11.2	15.2			55.1			28.6





1





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A-45

Category 6A U/FTP (STP) with FEP Jacket

SPECIFICATIONS

Configuration

Pair Count

Conductor

AWG (mm)

Insulation

Drain Wire

Jacket

Ohms

%

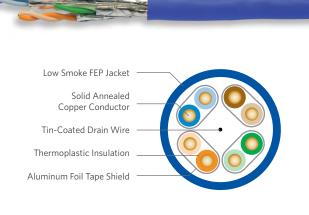
Insulation Colors

Characteristic Impedance

Performance Compliance

NRTL Programs

Nominal Velocity of Propagation



UL, c(UL) or ETL, c(ETL) Listed CMP

PRODUCT DESCRIPTION

Superior Essex offers Shielded Twisted Pair Category 6A cables with a plenum FEP jacket. The cable has guaranteed performance to 600 MHz and meets or exceeds ANSI/TIA-568-C.2 for CAT 6A cables required for 10GBASE-T applications. The cable consists of four (4) balanced 23 AWG copper pairs. Each pair is wrapped with a Mylar® backed aluminum foil with the drain wire in the center of all 4 copper pairs. The wrapped pairs are then jacketed with a flexible FEP jacket for plenum applications.

APPLICATIONS

- 10BASE-T through 10GBASE-T Ethernet
- Power over Ethernet (PoE) IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2
- . ATM and token ring

Color-coded box labels

Backward compatible to legacy protocols and applications

	FEATURES	BENEFITS
Copper pairs each surrounded by	Individually foil shielded pairs	 Protects against EMI/RFI and provides exceptional NEXT, PSNEXT, ELFEXT, and electrical performance
aluminum/Mylar® foil with center drain wire and jacket	 Exceeds specification ANSI/TIA-568-C.2 for CAT 6A 	 Meets 10GBASE-T application requirements for both Insertion
4	cable performance	Loss and Return Loss and
Solid annealed copper		exceeds requirements for alien and internal crosstalk
23 (0.57)		performance
FEP	 Plenum rated design 	 NFPA 262 fire rating options
Pair 1: ColorTip Light Blue, Blue Pair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, Brown		help to reduce additional expensive materials required to meet building safety codes
Tinned copper	FEP Jacket	Lower smoke emission
Low smoke FEP		in plenum test than PVC
100 ± 15	All fluoropolymer construction	 Resistant to chemical, moisture, thermal exposure
77	RoHS-compliant	 No heavy metals; no toxic components
UL 444 NFPA 262	 QuickCount[®] marking system in feet and meters 	 Provides remaining length of cable on reel
ANSI/TIA-568-C.2 Article 800, NEC (NFPA 70) RoHS-compliant	ColorTip [®] circuit identification system	 Easily identifiable conductor mates even in low-light environments
UL Verified 6A		

• Easily identifiable jacket colors

NUMBERS AND PHYSIC	CAL CHARACTERISTICS			
Part Number ¹	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet
6S-220-xP	0.27 (6.9)	55 (82)	1,000' Plywood reel	12





	Insertion Loss @ 20°C Maximum dB/100 m		20°C		Г Minimu 3/100 m	ım		Minimu 3/100 m	m		(T Minim 3/100 m	ium		R Minim 8/100 m	um
Frequency	TIA-568-C.2	Superio	or Essex	TIA-568-C.2	Superi	or Essex	TIA-568-C.2	Superi	or Essex	TIA-568-C.2	Superi	or Essex	TIA-568-C.2	Superi	or Essex
MHz	Specified	Guar.	Typical	Specified	Guar.	Typical	Calculated	Guar.	Typical	Specified	Guar.	Typical	Calculated	Guar.	Typical
1	2.1	2.1	2.0	74.3	82.3	84.8	72.2	80.2	82.8	72.3	80.3	82.8	70.2	78.2	80.8
4	3.8	3.8	3.7	65.3	73.3	75.8	61.5	69.5	72.1	63.3	71.3	73.8	59.5	67.5	70.1
8	5.3	5.3	5.2	60.8	68.8	71.3	55.5	63.5	66.1	58.8	66.8	69.3	53.5	61.5	64.1
10	5.9	5.9	5.8	59.3	67.3	69.8	53.4	61.4	64.0	57.3	65.3	67.8	51.4	59.4	62.0
16	7.5	7.5	7.3	56.2	64.2	66.7	48.7	56.7	59.4	54.2	62.2	64.7	46.7	54.7	57.4
20	8.4	8.4	8.2	54.8	62.8	65.3	46.4	54.4	57.1	52.8	60.8	63.3	44.4	52.4	55.1
25	9.4	9.4	9.2	53.3	61.3	63.8	43.9	51.9	54.6	51.3	59.3	61.8	41.9	49.9	52.6
31.25	10.5	10.5	10.3	51.9	59.9	62.4	41.4	49.4	52.1	49.9	57.9	60.4	39.4	47.4	50.1
62.5	15.0	15.0	14.7	47.4	55.4	57.9	32.4	40.4	43.2	45.4	53.4	55.9	30.4	38.4	41.2
100	19.1	19.1	18.8	44.3	52.3	54.8	25.2	33.2	36.0	42.3	50.3	52.8	23.2	31.2	34
200	27.6	27.6	27.0	39.8	47.8	50.3	12.2	20.2	23.3	37.8	45.8	48.3	10.2	18.2	21.3
250	31.1	31.1	30.4	38.3	46.3	48.8	7.2	15.2	18.4	36.3	44.3	46.8	5.2	13.2	16.4
300	34.3	34.3	33.6	37.1	45.1	47.6	2.8	10.8	14.0	35.1	43.1	45.6	0.8	8.8	12.0
350	37.2	37.2	36.5	36.1	44.1	46.6		6.9	10.1	34.1	42.1	44.6		4.9	8.1
400	40.1	40.1	39.3	35.3	43.3	45.8		3.2	6.5	33.3	41.3	43.8		1.2	4.5
500	45.3	45.3	44.4	33.8	41.8	44.3				31.8	39.8	42.3			
600		50.1	49.5		40.6	43.1					38.6	41.1			

		.oss Mini 3/100 m	mum		F Minimu 3/100 m	m		RF Minim 3/100 m	um		XT Minir 3/100 m	num		CRF Minir 3/100 m	
Frequency	TIA-568-C.2	Superio	or Essex	TIA-568-C.2	Superio	or Essex	TIA-568-C.2	Superi	or Essex	TIA-568-C.2	Superi	or Essex	TIA-568-C.2	Superi	or Essex
MHz	Specified	Guar.	Typical	Specified	Guar.	Typical	Specified	Guar.	Typical	Specified	Guar.	Typical	Specified	Guar.	Typical
1	20.0	20.0	20.6	67.8	69.8	73.8	64.8	66.8	70.8	67.0	70.0	72.0	67.0	70.0	72.0
4	23.0	23.0	23.7	55.8	57.8	61.8	52.8	54.8	58.8	67.0	70.0	72.0	66.2	69.2	71.2
8	24.5	24.5	25.3	49.7	51.7	55.7	46.7	48.7	52.7	67.0	70.0	72.0	60.1	63.1	65.1
10	25.0	25.0	25.8	47.8	49.8	53.8	44.8	46.8	50.8	67.0	70.0	72.0	58.2	61.2	63.2
16	25.0	25.0	25.8	43.7	45.7	49.7	40.7	42.7	46.7	67.0	70.0	72.0	54.1	57.1	59.1
20	25.0	25.0	25.8	41.8	43.8	47.8	38.8	40.8	44.8	67.0	70.0	72.0	52.2	55.2	57.2
25	24.3	24.3	25.1	39.8	41.8	45.8	36.8	38.8	42.8	67.0	70.0	72.0	50.2	53.2	55.2
31.25	23.6	23.6	24.3	37.9	39.9	43.9	34.9	36.9	40.9	67.0	70.0	72.0	48.3	51.3	53.3
62.5	21.5	21.5	22.2	31.9	33.9	37.9	28.9	30.9	34.9	65.6	68.6	70.6	42.3	45.3	47.3
100	20.1	20.1	20.7	27.8	29.8	33.8	24.8	26.8	30.8	62.5	65.5	67.5	38.2	41.2	43.2
200	18.0	18.0	18.5	21.8	23.8	27.8	18.8	20.8	24.8	58.0	61.0	63.0	32.2	35.2	37.2
250	17.3	17.3	17.8	19.8	21.8	25.8	16.8	18.8	22.8	56.5	59.5	61.5	30.2	33.2	35.2
300	16.8	16.8	17.3	18.3	20.3	24.3	15.3	17.3	21.3	55.3	58.3	60.3	28.7	31.7	33.7
350	16.3	16.3	16.8	16.9	18.9	22.9	13.9	15.9	19.9	54.3	57.3	59.3	27.3	30.3	32.3
400	15.9	15.9	16.4	15.8	17.8	21.8	12.8	14.8	18.8	53.5	56.5	58.5	26.2	29.2	31.2
500	15.2	15.2	15.7	13.8	15.8	19.8	10.8	12.8	16.8	52.0	55.0	57.0	24.2	27.2	29.2
600			15.1		14.2	18.2		11.2	15.2			55.1			28.6

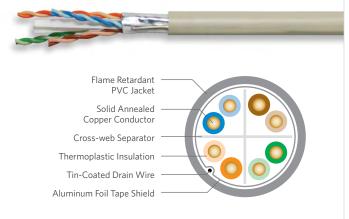
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Rev 7/15 Ed 13.0



Category 6A F/UTP (ScTP)

CMR/CMP



SPECIFICATIONS	
Configuration	Copper pairs surrounded by aluminum PET foil with an outer drain wire and jacket
Pair Count	4
Conductor	Solid annealed copper
AWG (mm)	23 (0.57)
Insulation	CMR: Thermoplastic CMP: FEP
Insulation Colors	Pair 1: ColorTip Light Blue, Blue Pair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, Brown
Separator	Cross-web
Shield	Aluminum/PET
Drain Wire	Tinned copper
Jacket	CMR: Flame retardant (FR) PVC CMP: FR, low smoke PVC
Characteristic Impedance Ohms	100 ± 15
Nominal Velocity of Propagation %	CMR: 66 CMP: 71
Performance Compliance	UL 444 CSA C22.2 No. 214-08 UL 1666 NFPA 262 ANSI/TIA-568-C.2 Article 800, NEC (NFPA 70)
NRTL Programs	UL Verified CAT 6A UL, c(UL) Listed CMR UL, c(UL) Listed CMP
Sustainability	UL Certified EPD HPD Multi-Attribute Certification USGBC® Member RoHS-compliant/RoHS 2-compliant REACH-compliant

PART NUMBERS AND P	HYSICAL CHARACTERISTIC	.5			
Listing	Part Number ¹	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet
CMR	6F-246-xA	0.29 (7.3)	32 (48)	1,000' BrakeBox®	12
CMR	6F-272-xA	0.29 (7.3)	32 (48)	1,000' Plywood reel	12
CMR	6F-273-xA	0.29 (7.3)	32 (48)	2,500' Plywood reel	8
CMP	6F-246-xB	0.28 (7.1)	37 (55)	1,000' BrakeBox	12
CMP	6F-272-xB	0.28 (7.1)	37 (55)	1,000' Plywood reel	12
CMP	6F-273-xB	0.28 (7.1)	37 (55)	2,500' Plywood reel	8

White = 4

PRODUCT DESCRIPTION

FIRST MANUFACTURER IN THE INDUSTRY

Category 6A F/UTP (ScTP) cable, swept out to 650 MHz, meets or exceeds ANSI/TIA-568-C.2 for CAT 6A cables, a requirement for 10GBASE-T applications. The cable is UL® Verified CAT 6A and has a typical Alien Crosstalk margin of 18 dB.

The cable consists of four (4) balanced 23 AWG copper pairs around a flame retardant cross-web. The core is wrapped with a Mylar® backed aluminum foil. A drain wire is applied longitudinally against the tape. The cable is then protected with a flexible riser or plenum rated PVC jacket.

APPLICATIONS

- 10BASE-T through 10GBASE-T Ethernet
- Power over Ethernet (PoE) IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2
- . ATM and token ring
- . Backward compatible to legacy protocols and applications

Fi	EATURES	BENEFITS
•	UL Certified Environmental Product Declaration (EPD)	 Contributes toward 1 LEED point under the Material and Resources credit (MRc)
•	Health Product Declaration™ (HPD™)	 Contributes toward 1 LEED point under the MRc
•	Multi-Attribute Certification by GreenCircle Certified, LLC	 Offers an overview of the sustainability of a product, its packaging and manufacturing
•	Overall shielded core	 Protects against EMI/RFI 18 dB typical margin Alien Crosstalk performance
•	Exceeds ANSI/TIA-568-C.2 specification for CAT 6A cable performance	 Meets all 10GBASE-T application requirements Exceeds requirements for Alien Crosstalk performance
•	UL Verified CAT 6A	 Assures CAT 6A performance by a nationally recognized test lab
	Riser and plenum rated designs	 Meets all fire safety requirements for either backbone or horizontal applications
•	CableID [®] alpha numeric code printed every 2 feet	 Allows both ends of a cable run to be easily identifiable without the need to separately label or tone the cable
	QuickCount [®] marking system in feet and meters	 Provides remaining length of cable on reel
	ColorTip [®] circuit identification system	Easily identifiable conductor mates even in low-light

environments

6

Δ-18

JACKET COLORS

¹Replace "x" with:

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Yellow = 6



ESSEX

800.551.8948

Blue = 2 Gray = 3

	Insertion Loss @ 20°C Maximum dB/100 m			NEXT Minimum dB/100 m			ACR Minimum dB/100 m				(T Minim 3/100 m	ium	PSACR Minimum dB/100 m		
Frequency	TIA-568-C.2	568-C.2 Superior Essex		TIA-568-C.2 Superior Essex		TIA-568-C.2	TIA-568-C.2 Superior Essex		TIA-568-C.2 Superior Essex		or Essex	TIA-568-C.2 Superior Ess		or Essex	
MHz	Specified	Guar.	Typical	Specified	Guar.	Typical	Calculated	Guar.	Typical	Specified	Guar.	Typical	Calculated	Guar.	Typical
1	2.1	2.1	2.0	74.3	74.3	76.8	72.2	72.2	74.8	72.3	72.3	74.8	70.2	70.2	72.8
4	3.8	3.8	3.7	65.3	65.3	67.8	61.5	61.5	64.1	63.3	63.3	65.8	59.5	59.5	62.1
8	5.3	5.3	5.2	60.8	60.8	63.3	55.5	55.5	58.1	58.8	58.8	61.3	53.5	53.5	56.1
10	5.9	5.9	5.8	59.3	59.3	61.8	53.4	53.4	56.0	57.3	57.3	59.8	51.4	51.4	54.0
16	7.5	7.5	7.3	56.2	56.2	58.7	48.7	48.7	51.4	54.2	54.2	56.7	46.7	46.7	49.4
20	8.4	8.4	8.2	54.8	54.8	57.3	46.4	46.4	49.1	52.8	52.8	55.3	44.4	44.4	47.1
25	9.4	9.4	9.2	53.3	53.3	55.8	43.9	43.9	46.6	51.3	51.3	53.8	41.9	41.9	44.6
31.25	10.5	10.5	10.3	51.9	51.9	54.4	41.4	41.4	44.1	49.9	49.9	52.4	39.4	39.4	42.1
62.5	15.0	15.0	14.7	47.4	47.4	49.9	32.4	32.4	35.2	45.4	45.4	47.9	30.4	30.4	33.2
100	19.1	19.1	18.8	44.3	44.3	46.8	25.2	25.2	28.0	42.3	42.3	44.8	23.2	23.2	26.0
200	27.6	27.6	27.0	39.8	39.8	42.3	12.2	12.2	15.3	37.8	37.8	40.3	10.2	10.2	13.3
250	31.1	31.1	30.4	38.3	38.3	40.8	7.2	7.2	10.4	36.3	36.3	38.8	5.2	5.2	8.4
300	34.3	34.3	33.6	37.1	37.1	39.6	2.8	2.8	6.0	35.1	35.1	37.6	0.8	0.8	4.0
350	37.2	37.2	36.5	36.1	36.1	38.6			2.1	34.1	34.1	36.6			0.1
400	40.1	40.1	39.3	35.3	35.3	37.8				33.3	33.3	35.8			
500	45.3	45.3	44.4	33.8	33.8	36.3				31.8	31.8	34.3			
600		50.1	49.5		32.6	35.1					30.6	33.1			

	Return Loss Minimum dB/100 m			ACRF Minimum dB/100 m			PSACRF Minimum dB/100 m			PSANEXT Minimum dB/100 m			PSAACRF Minimum dB/100 m		
Frequency	TIA-568-C.2	Superio	or Essex	TIA-568-C.2	Superi	or Essex	TIA-568-C.2	Superi	or Essex	TIA-568-C.2	Superi	or Essex	TIA-568-C.2	Superi	or Essex
MHz	Specified	Guar.	Typical	Specified	Guar.	Typical	Specified	Guar.	Typical	Specified	Guar.	Typical	Specified	Guar.	Typical
1	20.0	20.0	20.6	67.8	67.8	71.8	64.8	64.8	68.8	67.0	70.0	72.0	67.0	70.0	72.0
4	23.0	23.0	23.7	55.8	55.8	59.8	52.8	52.8	56.8	67.0	70.0	72.0	66.2	69.2	71.2
8	24.5	24.5	25.3	49.7	49.7	53.7	46.7	46.7	50.7	67.0	70.0	72.0	60.1	63.1	65.1
10	25.0	25.0	25.8	47.8	47.8	51.8	44.8	44.8	48.8	67.0	70.0	72.0	58.2	61.2	63.2
16	25.0	25.0	25.8	43.7	43.7	47.7	40.7	40.7	44.7	67.0	70.0	72.0	54.1	57.1	59.1
20	25.0	25.0	25.8	41.8	41.8	45.8	38.8	38.8	42.8	67.0	70.0	72.0	52.2	55.2	57.2
25	24.3	24.3	25.1	39.8	39.8	43.8	36.8	36.8	40.8	67.0	70.0	72.0	50.2	53.2	55.2
31.25	23.6	23.6	24.3	37.9	37.9	41.9	34.9	34.9	38.9	67.0	70.0	72.0	48.3	51.3	53.3
62.5	21.5	21.5	22.2	31.9	31.9	35.9	28.9	28.9	32.9	65.6	68.6	70.6	42.3	45.3	47.3
100	20.1	20.1	20.7	27.8	27.8	31.8	24.8	24.8	28.8	62.5	65.5	67.5	38.2	41.2	43.2
200	18.0	18.0	18.5	21.8	21.8	25.8	18.8	18.8	22.8	58.0	61.0	63.0	32.2	35.2	37.2
250	17.3	17.3	17.8	19.8	19.8	23.8	16.8	16.8	20.8	56.5	59.5	61.5	30.2	33.2	35.2
300	16.8	16.8	17.3	18.3	18.3	22.3	15.3	15.3	19.3	55.3	58.3	60.3	28.7	31.7	33.7
350	16.3	16.3	16.8	16.9	16.9	20.9	13.9	13.9	17.9	54.3	57.3	59.3	27.3	30.3	32.3
400	15.9	15.9	16.4	15.8	15.8	19.8	12.8	12.8	16.8	53.5	56.5	58.5	26.2	29.2	31.2
500	15.2	15.2	15.7	13.8	13.8	17.8	10.8	10.8	14.8	52.0	55.0	57.0	24.2	27.2	29.2
600			15.1		12.2	16.2		9.8	13.8			55.1			28.6

SUSTAINABILITY LEADERSHIP









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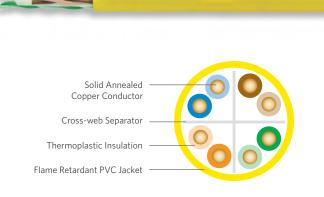
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A-49

CMR/CMP



SPECIFICATIONS	
Pair Count	4
Conductor	Solid annealed copper
AWG (mm)	23 (0.57)
Insulation	CMR: Polyolefin CMP: FEP
Insulation Colors	Pair 1: ColorTip Light Blue, Blue Pair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, Brown
Separator	Cross-web
Jacket	CMR: Flame retardant (FR) PVC CMP: FR, low smoke PVC
Characteristic Impedance Ohms	100 ± 15
Nominal Velocity of Propagation %	CMR: 70 CMP: 74
Performance Compliance	UL 444 CSA C22.2 No. 214-08 UL 1666 NFPA 262 ANSI/TIA-568-C.2 Article 800, NEC (NFPA 70)
NRTL Programs	UL Verified CAT 6 UL, c(UL) Listed CMR UL, c(UL) Listed CMP
Sustainability	UL Certified EPD HPD Multi-Attribute Certification USGBC® Member RoHS-compliant/RoHS 2-compliant REACH-compliant

PRODUCT DESCRIPTION

FIRST MANUFACTURER IN THE INDUSTRY

NextGain® Category 6eX cable brings UTP performance to a new level. Guaranteed for 7 dB of margin (headroom) over base requirements of CAT 6 NEXT standards, this cable maximizes bandwidth for today's leading edge applications and those of the future. With positive ACR verified beyond 300 MHz, NextGain CAT 6eX cable demonstrates superior capability for ATM, Gigabit Ethernet and other bandwidth intensive applications.

APPLICATIONS

- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2
- ATM and token ring
- Supports legacy protocols and applications

FEATURES

	FEATURES	BENEFITS
	UL Certified Environmental Product Declaration (EPD)	 Contributes toward 1 LEED point under the Material and Resources credit (MRc)
	 Health Product Declaration[™] (HPD[™]) 	 Contributes toward 1 LEED point under the MRc
	 Multi-Attribute Certification by GreenCircle Certified, LLC 	 Offers an overview of the sustainability of a product, its packaging and manufacturing
ie Orange Green	Guaranteed NEXT of 7 dB greater than CAT 6 requirements	 "Future-proofing" the cable installation
Brown VC	Guaranteed ACR of 30 dB at 100 MHz and 11.7 dB at 250 MHz	 Performance assurance for multiple high-bandwidth applications (e.g., fast Ethernet, ATM, Gigabit Ethernet)
	 Exceptional performance over CAT 6 requirements 	 Reduces BER, improving network efficiency
	 BrakeBox[®] payout control system 	 Adjustable tension control on reel prevents over spin and entangling of cable
	 Warrantied with numerous connectivity manufacturers 	 Offers flexibility in selection of connectivity solutions
	 CableID[®] alpha numeric code printed every 2 feet 	• Allows both ends of a cable run to be easily identifiable without the need to separately label or tone the cable
	 QuickCount[®] marking system in feet and meters 	 Provides remaining length of cable on reel
npliant	ColorTip [®] circuit identification system	 Easily identifiable conductor mates even in low-light environments

• Easily identifies jacket colors

PART NUMBERS AND PHYSICAL CHARACTERISTICS

TART NONDERS AND T					
Listing	Part Number ¹	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet
CMR	54-246-xA	0.23 (5.8)	24 (36)	1,000' BrakeBox	12
CMR	54-272-xA	0.23 (5.8)	24 (36)	1,000' Plywood reel	16
СМР	54-246-xB	0.23 (5.7)	28 (42)	1,000' BrakeBox	12
CMP	54-272-xB	0.23 (5.7)	28 (42)	1,000' Plywood reel	16

JACKET COLORS							
¹ Replace "x" with:	Blue = 2	Gray = 3	White = 4	Green = 5	Yellow = 6	Purple = 7	Red = 9



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Color coded box labels

		s @ 20°C Max	imum		T Minimum			R Minimum			XT Minimum	
		B/100 m			B/100 m			B/100 m			B/100 m	
Frequency	TIA-568-C.2	3-C.2 Superior Essex		TIA-568-C.2	Superior I	Essex	TIA-568-C.2	Superior I	ssex	TIA-568-C.2	Superior I	Essex
MHz	Specified	Guaranteed	Typical	Specified	Guaranteed	Typical	Calculated	Guaranteed	Typical	Specified	Guaranteed	Typical
1	2.0	2.0	1.7	74.3	81.3	94.7	72.3	79.3	92.9	72.3	79.3	92.4
4	3.8	3.8	3.4	65.3	72.3	85.5	61.5	68.5	82.1	63.3	70.3	83.4
10	6.0	5.9	5.4	59.3	66.3	78.9	53.3	60.4	73.6	57.3	64.3	76.9
16	7.6	7.5	6.9	56.2	63.2	76.2	48.6	55.7	69.3	54.2	61.2	74.0
20	8.5	8.4	7.7	54.8	61.8	74.7	46.3	53.4	66.9	52.8	59.8	72.6
25	9.5	9.4	8.7	53.3	60.3	73.2	43.8	50.9	64.5	51.3	58.3	71.1
31.25	10.7	10.6	9.8	51.9	58.9	71.1	41.2	48.3	61.3	49.9	56.9	69.2
62.5	15.4	15.3	14.1	47.4	54.4	66.6	32.0	39.1	52.6	45.4	52.4	64.6
100	19.8	19.7	18.1	44.3	51.3	64.4	24.5	31.6	46.3	42.3	49.3	62.3
200	29.0	28.8	26.3	39.8	46.8	59.0	10.8	18.0	32.9	37.8	44.8	57.0
250	32.8	32.6	29.8	38.3	45.3	58.0	5.5	12.7	28.0	36.3	43.3	55.8
300		36.2	33.0		41.2	56.5		4.7	23.5		39.2	54.3
350		39.5	35.9		40.2	55.1		0.4	19.1		38.2	52.8
400		43.0	38.5		39.3	52.9			14.2		37.3	50.6
450		46.0	41.3		38.5	50.3			9.0		36.5	49.3
500		48.9	44.0		37.8	49.8			6.9		35.8	48.8
550		51.8	46.6		37.2	49.1			3.6		35.2	48.0
650			51.1			47.0						45.1

		CR Minimum B/100 m			Loss Minimum B/100 m	I	•	ACRF) Minimu B/100 m	ım	PSELFEXT (PSACRF) Minimum dB/100 m			
Frequency	TIA-568-C.2	Superior	Essex	TIA-568-C.2	Superior I	Essex	TIA-568-C.2	Superior	Essex	TIA-568-C.2	Superior I	Essex	
MHz	Calculated	Guaranteed	Typical	Specified	Guaranteed	Typical	Specified	Guaranteed	Typical	Specified	Guaranteed	Typical	
1	70.3	77.3	90.7	20.0	20.0	28.8	67.8	73.8	86.7	64.8	70.8	84.8	
4	59.5	66.5	80.1	23.0	23.0	33.2	55.7	61.7	74.8	52.7	58.7	73.0	
10	51.3	58.4	71.6	25.0	25.0	35.2	47.8	53.8	67.1	44.8	50.8	65.1	
16	46.6	53.7	67.2	25.0	25.0	34.8	43.7	49.7	63.2	40.7	46.7	61.2	
20	44.3	51.4	65.0	25.0	25.0	35.0	41.7	47.7	61.3	38.7	44.7	59.3	
25	41.8	48.9	62.5	24.3	24.3	36.6	39.8	45.8	59.4	36.8	42.8	57.4	
31.25	39.2	46.3	59.6	23.6	23.6	36.6	37.9	43.9	57.6	34.9	40.9	55.5	
62.5	30.0	37.1	50.7	21.5	21.5	36.0	31.8	37.8	51.8	28.8	34.8	49.7	
100	22.5	29.6	44.4	20.1	20.1	35.0	27.8	33.8	48.0	24.8	30.8	45.7	
200	8.8	16.0	31.0	18.0	18.0	32.6	21.7	27.7	42.1	18.7	24.7	39.8	
250	3.5	10.7	26.3	17.3	17.3	31.8	19.8	25.8	40.1	16.8	22.8	37.8	
300		2.7	21.8		16.8	30.7		24.2	38.3		21.2	36.0	
350			17.3		16.3	29.3		22.9	37.0		19.9	34.7	
400			12.6		15.9	28.7		21.7	35.6		18.7	33.1	
450			7.5		15.5	27.8			34.4			32.1	
500			5.3		15.2	26.7			32.9			30.6	
550			2.0		14.9	25.1			31.5			29.2	
650						20.4			28.2			26.0	

SUSTAINABILITY LEADERSHIP

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Solid Annealed — Copper Conductor Tape Separator — Thermoplastic Insulation — Flame Retardant PVC Jacket —	
SPECIFICATIONS	
Pair Count	4
Conductor	Solid annealed copper
AWG (mm)	23 (0.57)
Insulation	CMR: Polyolefin CMP: FEP
Insulation Colors	Pair 1: ColorTip Light Blue, Blue Pair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, Brown
Separator	Таре
Jacket	CMR: Flame retardant (FR) PVC CMP: FR, low smoke PVC
Characteristic Impedance Ohms	100 ± 15
Nominal Velocity of Propagation %	CMR: 70 CMP: 72
Performance Compliance	UL 444 CSA C22.2 No. 214-08 UL 1666 NFPA 262 ANSI/TIA-568-C.2 ANSI/ICEA S-90-661-2012 Article 800, NEC (NFPA 70)
NRTL Programs	UL Verified CAT 6 UL, c(UL) Listed CMR UL, c(UL) Listed CMP
Sustainability	UL Certified EPD HPD Multi-Attribute Certification USGBC® Member RoHS-compliant/RoHS 2-compliant REACH-compliant

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Nominal Diameter Approx. Weight Part Number¹ Listing lbs/kft (kg/km) Package Packages per Pallet in (mm) CMR 66-246-xA 0.22 (5.5) 24 (36) 1,000' BrakeBox 27 CMR 66-272-xA 0.22 (5.5) 24 (36) 1,000' Plywood reel 16 CMR 66-240-xA 0.22 (5.5) 24 (36) 1,000' POP™ box 36 27 CMP 66-246-xB 0.22 (5.5) 26 (39) 1,000' BrakeBox CMP 66-272-xB 0.22 (5.5) 26 (39) 1,000' Plywood reel 16

0.22 (5.5)

JACKET COLORS										
¹ Replace "x" with:	Blue = 2	Gray = 3	White = 4	Green = 5	Yellow = 6	Purple = 7	Red = 9	Pink = C	Orange = D	Black = E



Δ-52

CMP

66-240-xB

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PRODUCT DESCRIPTION

FIRST MANUFACTURER IN THE INDUSTRY

DataGain® cable provides the best value in Category 6+ cables on the market today. The innovative design, which utilizes a tape separator, yields exceptional performance that exceeds TIA/EIA CAT 6 specifications. DataGain easily surpasses the performance of other costcompetitive CAT 6 cables.

BENEFITS

APPLICATIONS

- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2
- ATM and token ring

FEATURES

- UL Certified Environmental Contributes toward 1 LEED point under the Material and Product Declaration (EPD) Resources credit (MRc) Health Product Declaration[™] Contributes toward 1 LEED . (HPD™) point under the MRc Multi-Attribute Certification Offers an overview of the . by GreenCircle Certified, LLC sustainability of a product, its packaging and manufacturing Guaranteed electrical Greater assurance of exceptional performance to 400 MHz overall channel performance at a great value • Guaranteed 5 dB margin "Future-proofs" in NEXT, PSNEXT, ELFEXT, the cable installation PSELFEXT, ACR and PSACR Tested to 550 MHz Assures ample bandwidth headroom Reduces installation time Round design with tape separator Warranted with numerous Offers flexibility in selection connectivity manufacturers of connectivity solutions BrakeBox[®] payout · Adjustable tension control control system on reel prevents over spin and entangling of cable CableID[®] alpha numeric code Allows both ends of a cable run . printed every 2 feet to be easily identifiable without the need to separately label or tone the cable Provides remaining length QuickCount[®] marking system . in feet and meters of cable on reel ColorTip® circuit Easily identifiable conductor identification system mates even in low-light
- environments Color coded box labels

1,000' POP box

Easily identifies jacket colors

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ELECTRICAL	SPECIFICATION	٩S											
		s @ 20°C Max B/100 m	imum		NEXT Minimum dB/100 m			R Minimum B/100 m		PSNEXT Minimum dB/100 m			
Frequency	TIA-568-C.2	Superior I	Essex	TIA-568-C.2	Superior Essex		TIA-568-C.2	C.2 Superior Ess		TIA-568-C.2	Superior Essex		
MHz	Specified	Guaranteed	Typical	Specified	Guaranteed	Typical	Calculated	Guaranteed	Typical	Specified	Guaranteed	Typical	
1	2.0	2.0	1.7	74.3	79.3	90.6	72.3	77.3	88.9	72.3	77.3	88.2	
4	3.8	3.8	3.4	65.3	70.3	80.9	61.5	66.5	77.5	63.3	68.3	78.6	
10	6.0	5.9	5.4	59.3	64.3	74.4	53.3	58.4	69.0	57.3	62.3	72.1	
16	7.6	7.5	6.9	56.2	61.2	71.4	48.6	53.7	64.5	54.2	59.2	69.1	
20	8.5	8.4	7.8	54.8	59.8	70.1	46.3	51.4	62.4	52.8	57.8	67.8	
25	9.5	9.4	8.7	53.3	58.3	68.4	43.8	48.9	59.7	51.3	56.3	66.1	
31.25	10.7	10.6	9.8	51.9	56.9	67.2	41.2	46.3	57.3	49.9	54.9	64.8	
62.5	15.4	15.3	14.1	47.4	52.4	62.5	32.0	37.1	48.4	45.4	50.4	60.3	
100	19.8	19.7	18.1	44.3	49.3	59.7	24.5	29.6	41.5	42.3	47.3	57.3	
200	29.0	28.8	26.4	39.8	44.8	54.5	10.8	16.0	28.3	37.8	42.8	52.3	
250	32.8	32.6	29.8	38.3	43.3	53.5	5.5	10.7	23.5	36.3	41.3	50.8	
400		42.7	38.9		36.3	48.2			9.2		34.3	45.6	
500			44.2			45.4						43.0	
550			47.2			44.0						42.1	

	PSACR Minimum dB/100 m				Return Loss Minimum dB/100 m			ACRF) Minimu B/100 m	ım	PSELFEXT (PSACRF) Minimum dB/100 m			
Frequency	TIA-568-C.2	Superior Essex		TIA-568-C.2	Superior I	Essex	TIA-568-C.2	Superior I	Essex	TIA-568-C.2	Superior I	Essex	
MHz	Calculated	Guaranteed	Typical	Specified	Guaranteed	Typical	Specified	Guaranteed	Typical	Specified	Guaranteed	Typical	
1	70.3	75.3	85.6	20.0	20.0	28.5	67.8	72.7	82.6	64.8	69.8	80.6	
4	59.5	64.5	74.3	23.0	23.0	33.8	55.8	60.7	70.7	52.8	57.8	68.8	
10	51.3	56.5	65.7	25.0	25.0	36.1	47.8	52.7	62.9	44.8	49.8	60.9	
16	46.6	51.7	61.3	25.0	25.0	36.2	43.7	48.6	58.9	40.7	45.7	56.9	
20	44.3	49.4	59.2	25.0	25.0	35.9	41.8	46.7	57.0	38.8	43.8	54.9	
25	41.8	46.9	56.5	24.3	24.3	36.0	39.8	44.7	55.2	36.8	41.8	53.0	
31.25	39.2	44.3	54.2	23.6	23.6	35.7	37.9	42.8	53.3	34.9	39.9	51.1	
62.5	30.0	35.1	45.3	21.5	21.5	33.2	31.9	36.8	47.5	28.9	33.9	45.2	
100	22.5	27.6	38.5	20.1	20.1	32.2	27.8	32.7	43.6	24.8	29.8	41.3	
200	8.8	14.0	25.2	18.0	18.0	30.2	21.8	26.7	37.7	18.8	23.8	35.4	
250	3.5	8.7	20.4	17.3	17.3	30.1	19.8	24.7	35.7	16.8	21.8	33.4	
400			6.2		15.9	27.0		17.8	30.2		12.8	28.8	
500						25.5			28.2			25.9	
550						24.6			26.6			24.5	

SUSTAINABILITY LEADERSHIP









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SPECIFICATIONS	
Pair Count	4
Conductor	Solid annealed copper
AWG (mm)	23 (0.57)
Insulation	Solid HPDE
Insulation Colors	Pair 1: ColorTip Light Blue, Blue Pair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, Brown
Jacket	Flame retardant LSHF
Characteristic Impedance Ohms	100 ± 15
Nominal Velocity of Propagation %	67
Performance Compliance	UL® 444 CSA C22.2 No. 214-08 UL 1666 IEC 60134 IEC 60332-1 IEC 60754 IEC 62821-1 IEC 62821-2 IEC 62821-3 ANSI/T1A-568-C.2 Article 800, NEC (NFPA 70)
NRTL Programs	UL Verified CAT 6 UL, c(UL) Listed CMR-LSHF
Sustainability	HPD USGBC® Member RoHS-compliant/RoHS 2-compliant REACH-compliant

PRODUCT DESCRIPTION

FIRST MANUFACTURER IN THE INDUSTRY

Superior Essex Category 6+ LSHF CMR cable is designed for applications requiring a Low Smoke Halogen-free (LSHF) construction. This cable does not contain any red list materials in its composition. CAT 6 compliance ensures this cable will support 1000BASE-T Gigabit Ethernet. This cable easily surpasses the Grade 2 requirements specified in the ANSI/TIA/EIA-570-B Residential Telecommunications standard.

APPLICATIONS

- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) IEEE 802.3af .
- PoE+ IEEE 802.3at Type 1 and 2
- ATM and token ring

· Color coded box labels

FEATURES	BENEFITS
 Health Product Declaration[™] (HPD[™]) 	 Contributes toward 1 LEED point under the MRc
Low Smoke Halogen-free	 Meets IEC 62821 requirements for toxicity, acidity and smoke
• Guaranteed 2 dB margin in NEXT, PSNEXT, RL, ACR and PSACR	 "Future-proofs" the cable installation
UL Listed CMR-LSHF	 UL listing allows for CMR specific installations
Meets and exceeds ANSI/TIA-568-C.2 specification	CAT 6+ compliance
 Round design without separator 	 Reduces installation time
 BrakeBox[®] payout control system 	 Adjustable tension control on reel prevents over spin and entangling of cable
 CableID[®] alpha numeric code printed every 2 feet 	• Allows both ends of a cable run to be easily identifiable without the need to separately label or tone the cable
 QuickCount[®] marking system in feet and meters 	 Provides remaining length of cable on reel
 ColorTip[®] Circuit Identification System 	 Easily identifiable conductor mates even in low light environments

• Easily identifies jacket colors

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Listing	Part Number ¹	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet
CMR-LSHF	66-246-xM	0.25 (6.3)	28 (42)	1,000' BrakeBox	12

¹Replace "x" with: Blue = 2White = 4





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What is a Multi-Attribute Certification?

Certified Environmental Fa	acts™
Company: Superior Essex [®]	
Products: Cobra CAT 5e+ and Marathon LAN [®] CAT 5e	
Packaging: Reel-in-a-Box	
Plant Location: Hoisington, KS	
Product Specific:	
Recyclable Material ¹	50%
Completed LCA/EPD Yes — Publis	shed EPD
Completed HPD Yes — Publis	hed HPD
Packaging Specific:	
Pre-Consumer Recycled Content	41%
Post-Consumer Recycled Content	47%
Recyclable Material ²	100%
Manufacturing Specific:	
Carbon Footprint Reduction — Facility ³	92%
Reduced Energy Usage	4%
Reduced Water Usage	23%
Reduced Waste⁴	0.4%
Zero Waste to Landfill Facility ⁵	Yes
ISO 9001:2008 Registered/TL 9000 Registered	Yes
Evaluation Period: 2011 - 2014	ION
Certification Number: 14-0280	
Certification Period: 11/1/2014 - 10/31/2015	Circle
For more information on the	
Certified Environmental Facts of this product,	
please contact: info@GreenCircleCertified.com	UCD ENVIRON
www.GreenCircleCertified.com 1. Pertains to copper wire only. Wire must be stripped to be recycled.	The
2. 100% recyclable in areas with #5 plastic recycling capabilities.	
 Pertains to Scope 1 emissions only. Pertains to non-hazardous waste only. 	
5. Details on GreenCircle certificate # 15-0238	
© Copyright 2014 by GreenCircle Certified, LLC	

A Multi-Attribute Certification provides a complete overview of the sustainability of a product, its packaging and manufacturing operations. Superior Essex Multi-Attribute Certifications are published through GreenCircle Certified, LLC in accordance with internationally recognized standards and the Federal Trade Commission's Green Guides.

Superior Essex provides CAT 5e - CAT 6 premises copper cabling products with Multi-Attribute Labels. Visit ce.SuperiorEssex.com/Enviro for more information.

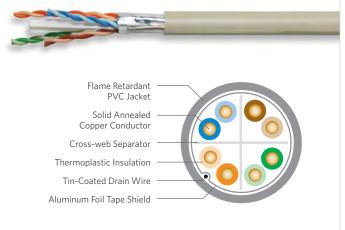
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CMR/CMP



SPECIFICATIONS	
Configuration	Copper pairs surrounded by aluminum PET foil with an outer drain wire and jacket
Pair Count	4
Conductor	Solid annealed copper
AWG (mm)	23 (0.57)
Insulation	CMR: Thermoplastic CMP: FEP
Insulation Colors	Pair 1: ColorTip Light Blue, Blue Pair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, Brown
Separator	Cross-web
Shield	Aluminum/PET with 10% overlap
Drain Wire	Tinned copper
Jacket	CMR: Flame retardant (FR) PVC CMP: FR, low smoke PVC
Characteristic Impedance Ohms	100 ± 15
Nominal Velocity of Propagation %	CMR: 66 CMP: 71
Performance Compliance	UL 444 CSA C22.2 No. 214-08 UL 1666 NFPA 262 ANSI/TIA-568-C.2 ANSI/TIA/EIA-TSB-155 Article 800, NEC (NFPA 70)
NRTL Programs	UL Verified CAT 6 UL, c(UL) Listed CMR UL, c(UL) Listed CMP
Sustainability	UL Certified EPD HPD Multi-Attribute Certification USGBC® Member RoHS-compliant/RoHS 2-compliant REACH-compliant

PRODUCT DESCRIPTION

FIRST MANUFACTURER IN THE INDUSTRY

Category 6+ F/UTP (ScTP) cable, with guaranteed performance out to 500 MHz, exceeds ANSI/TIA-568-C.2 for CAT 6 cables. The cable is UL Verified CAT 6 and has a typical Alien Crosstalk margin of 18 dB. The cable can be used for 10GBASE-T applications for up to 55 meters per ANSI/TIA/EIA-TSB-155.

The cable consists of four (4) balanced 23 AWG copper pairs around a flame retardant cross-web. The core is wrapped with a Mylar® backed aluminum foil. A drain wire is applied longitudinally against the tape. The cable is then protected with a flexible riser or plenum rated PVC jacket.

APPLICATIONS

FEATURES

- 10GBASE-T (up to 55 meters), 1000BASE-T, 100BASE-T and legacy . Ethernet applications
- Power over Ethernet (PoE) IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2
- ATM and token ring

BENEFITS

	 UL Certified Environmental Product Declaration (EPD) Contributes toward 1 LEED point under the Material and Resources credit (MRc)
	Health Product Declaration [™] Contributes toward 1 LEED point under the MRc
Blue, Blue Drange, Orange Green, Green	 Multi-Attribute Certification by GreenCircle Certified, LLC Offers an overview of the sustainability of a product, its packaging and manufacturing
Brown, Brown 0% overlap	 Overall shielded core Protects against EMI/RFI 18 dB typical margin Alien Crosstalk performance
(FR) PVC VC	 Guaranteed performance to 500 MHz Assures ample headroom for existing and future high bandwidth applications
	 Exceeds ANSI/TIA-568-C.2 specification for CAT 6 cable performance Allows for 10GBASE-T applications up to 55 meters
2	UL Verified CAT 6 Assures CAT 6 performance by a nationally recognized test lab
55	 Riser and plenum rated designs Meets all fire safety requirements for either backbone or horizontal applications
PA 70)	 CableID[®] alpha numeric code printed every 2 feet Allows both ends of a cable run to be easily identifiable without the need to separately label or tone the cable
cation	 QuickCount[®] marking system in feet and meters Provides remaining length of cable on reel
S 2-compliant	 ColorTip[®] circuit identification system Easily identifiable conductor mates even in low-light environments

PART NUMBERS AND PHYSICAL CHARACTERISTICS

TART NONDERS AND T					
Listing	Part Number ¹	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet
CMR	6T-246-xA	0.29 (7.3)	32 (48)	1,000' BrakeBox®	12
CMR	6T-272-xA	0.29 (7.3)	32 (48)	1,000' Plywood reel	12
CMP	6T-246-xB	0.28 (7.1)	37 (55)	1,000' BrakeBox	12
CMP	6T-272-xB	0.28 (7.1)	37 (55)	1,000' Plywood reel	12

JACKET COLORS								
¹ Replace "x" with:	Blue = 2	Gray = 3	White = 4	Green = 5	Yellow = 6	Purple = 7	Red = 9	Orange = D

A-56

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ELECTRICAL SPECIFICATIONS												
		s @ 20°C Max B/100 m	imum		T Minimum B/100 m		ACR Minimum dB/100 m			PSNEXT Minimum dB/100 m		
Frequency	TIA-568-C.2	Superior I	Essex	TIA-568-C.2	Superior I	ssex	TIA-568-C.2	Superior	Essex	TIA-568-C.2	Superior I	Essex
MHz	Specified	Guaranteed	Typical	Specified	Guaranteed	Typical	Calculated	Guaranteed	Typical	Specified	Guaranteed	Typical
1	2.0	2.0	1.7	74.3	74.3	82.9	72.3	72.3	82.2	72.3	72.3	81.9
4	3.8	3.8	3.4	65.3	65.3	77.6	61.5	61.5	74.2	63.3	63.3	75.0
10	6.0	6.0	5.4	59.3	59.3	70.1	53.3	53.3	64.7	57.3	57.3	68.3
16	7.6	7.6	6.9	56.2	56.2	69.6	48.6	48.6	62.5	54.2	54.2	67.1
20	8.5	8.5	7.8	54.8	54.8	68.7	46.3	46.3	60.7	52.8	52.8	65.7
25	9.5	9.5	8.8	53.3	53.3	66.1	43.8	43.8	58.7	51.3	51.3	64.7
31.25	10.7	10.7	9.8	51.9	51.9	67.8	41.2	41.2	56.2	49.9	49.9	63.4
62.5	15.4	15.4	14.2	47.4	47.4	64.0	32.0	32.0	47.8	45.4	45.4	59.1
100	19.8	19.8	18.2	44.3	44.3	58.0	24.5	24.5	38.7	42.3	42.3	55.0
200	29.0	29.0	26.6	39.8	39.8	53.8	10.8	10.8	26.5	37.8	37.8	50.6
250	32.8	32.8	30.1	38.3	38.3	51.0	5.5	5.5	21.1	36.3	36.3	48.7
300		35.5	33.4		36.2	53.8		0.6	19.4		34.8	49.1
400		42.1	39.5		34.4	49.1			8.0		32.5	44.5
500		48.0	45.1		32.9	42.9					31.0	41.7

		CR Minimum B/100 m			Loss Minimurr B/100 m	I		ACRF) Minimu B/100 m	ım		PSACRF) Mini B/100 m	mum
Frequency	TIA-568-C.2	Superior	Essex	TIA-568-C.2	Superior	Essex	TIA-568-C.2	Superior	Essex	TIA-568-C.2	Superior	Essex
MHz	Calculated	Guaranteed	Typical	Specified	Guaranteed	Typical	Specified	Guaranteed	Typical	Specified	Guaranteed	Typical
1	70.3	70.3	80.2	20.0	20.0	26.0	67.8	67.8	78.7	64.8	64.8	76.6
4	59.5	59.5	71.6	23.0	23.0	31.1	55.8	55.8	65.9	52.8	52.8	64.2
10	51.3	51.3	62.9	25.0	25.0	36.3	47.8	47.8	58.1	44.8	44.8	56.4
16	46.6	46.6	60.2	25.0	25.0	37.7	43.7	43.7	54.0	40.7	40.7	52.2
20	44.3	44.3	58.1	25.0	25.0	36.0	41.8	41.8	52.1	38.8	38.8	50.3
25	41.8	41.8	56.1	24.3	24.3	38.6	39.8	39.8	50.2	36.8	36.8	48.4
31.25	39.2	39.2	53.6	23.6	23.6	38.3	37.9	37.9	48.1	34.9	34.9	46.4
62.5	30.0	30.0	45.0	21.5	21.5	32.8	31.9	31.9	41.4	28.9	28.9	40.3
100	22.5	22.5	37.0	20.1	20.1	30.7	27.8	27.8	36.8	24.8	24.8	35.2
200	8.8	8.8	24.0	18.0	18.0	27.6	21.8	21.8	32.6	18.8	18.8	31.8
250	3.5	3.5	18.8	17.3	17.3	28.5	19.8	19.8	32.5	16.8	16.8	31.3
300			15.8		15.9	28.6		17.5	30.8		14.5	28.9
400			5.0		14.9	24.9		14.9	24.7		11.9	23.5
500					13.7	25.0		12.5	22.5		9.5	21.5









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Solid Annealed Copper Conductor Flame Retardant PVC Jacket Thermoplastic Insulation	

SPECIFICATIONS	
Pair Count	4
Conductor	Solid annealed copper
AWG (mm)	23 (0.57)
Insulation	CMR: Polyolefin CMP: FEP
Insulation Colors	Pair 1: ColorTip Light Blue, Blue Pair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, Brown
Jacket	CMR: Flame retardant (FR) PVC CMP: FR, low smoke PVC
Characteristic Impedance Ohms	100 ± 15
Nominal Velocity of Propagation %	CMR: 70 CMP: 73
Performance Compliance	UL 444 CSA C22.2 No. 214-08 UL 1666 NFPA 262 ANSI/TIA-568-C.2 Article 800, NEC (NFPA 70)
NRTL Programs	UL Verified CAT 6 UL, c(UL) Listed CMR UL, c(UL) Listed CMP
Sustainability	UL Certified EPD HPD Multi-Attribute Certification USGBC® Member RoHS-compliant/RoHS 2-compliant REACH-compliant

PRODUCT DESCRIPTION

FIRST MANUFACTURER IN THE INDUSTRY

Superior Essex Series 77 product line provides exceptional value for jobs that require standards compliant Category 6 cable at a cost-effective price.

APPLICATIONS

- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2
- ATM and token ring

FEATURES	BENEFITS
UL Certified Environmental Product Declaration (EPD)	 Contributes toward 1 LEED point under the Material and Resources credit (MRc)
 Health Product Declaration[™] (HPD[™]) 	 Contributes toward 1 LEED point under the MRc
Multi-Attribute Certification by GreenCircle Certified, LLC	 Offers an overview of the sustainability of a product, its packaging and manufacturing
 Meets ANSI/TIA-568-C.2 specification 	Provides cost effective solution
 BrakeBox[®] payout control system 	 Adjustable tension control on reel prevents over spin and entangling of cable
 CablelD[®] alpha numeric code printed every 2 feet 	• Allows both ends of a cable run to be easily identifiable without the need to separately label or tone the cable
 QuickCount[®] marking system in feet and meters 	 Provides remaining length of cable on reel
 ColorTip[®] circuit identification system 	 Easily identifiable conductor mates even in low-light

- Color coded box labels
- environments • Easily identifies jacket colors

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Listing	Part Number ¹	Nominal Diameter in (mm)	Approx. Weight Ibs/kft (kg/km)	Package
CMR	77-ххх-уА	0.21 (5.3)	22 (33)	use key
CMP	77-xxx-yB	0.20 (5.1)	23 (34)	use key

PACKAGING								
	150 ft Coil	200 ft Coil	250 ft Coil	300 ft Coil	1,000 ft POP Box	1,000 ft BrakeBox	1,000 ft Plywood Reel	2,500 ft Plywood Reel
¹ Replace "xxx" with:	225	229	230	231	240	246	272	273
Packages per Pallet	120	120	144	120	36	27	16	12

JACKET COLORS										
¹ Replace "y" with:	Blue = 2	Gray = 3	White = 4	Green = 5	Yellow = 6	Purple = 7	Red = 9	Pink = C	Orange = D	Black = E



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	Insertion Loss @ 20°C Maximum dB/100 m					linimum 00 m	PSNEXT Minimum dB/100 m	
Frequency	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex
MHz	Specified	Typical	Specified	Typical	Calculated	Typical	Specified	Typical
1	2.0	1.7	74.3	82.9	72.3	82.2	72.3	81.9
4	3.8	3.4	65.3	77.6	61.5	74.2	63.3	75.0
8	5.3	4.8	60.8	74.4	55.4	68.9	58.8	71.9
10	6.0	5.4	59.3	70.1	53.3	64.7	57.3	68.3
16	7.6	6.9	56.2	69.6	48.6	62.5	54.2	67.1
20	8.5	7.8	54.8	68.7	46.3	60.7	52.8	65.7
25	9.5	8.8	53.3	66.1	43.8	58.7	51.3	64.7
31.25	10.7	9.8	51.9	67.8	41.2	56.2	49.9	63.4
62.5	15.4	14.2	47.4	64.0	32.0	47.8	45.4	59.1
100	19.8	18.2	44.3	58.0	24.5	38.7	42.3	55.0
155	25.2	23.0	41.4	54.5	16.3	31.6	39.4	52.1
200	29.0	26.6	39.8	53.8	10.8	26.5	37.8	50.6
250	32.8	30.1	38.3	51.0	5.5	21.1	36.3	48.7
300		33.4		53.8		19.4		49.1
350		36.5		50.1		14.3		47.5
400		39.5		49.1		8.0		44.5
450		42.3		44.6		3.3		43.4
500		45.1		42.9				41.7
550		47.7		41.6				39.1

		Vinimum 00 m		s Minimum 00 m		Minimum 00 m		Г Minimum 100 m
Frequency	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex
MHz	Calculated	Typical	Specified	Typical	Specified	Typical	Specified	Typical
1	70.3	80.2	20.0	26.0	67.8	78.7	64.8	76.6
4	59.5	71.6	23.0	31.1	55.8	65.9	52.8	64.2
8	53.4	67.1	24.5	34.5	49.7	60.1	46.7	58.4
10	51.3	62.9	25.0	36.3	47.8	58.1	44.8	56.4
16	46.6	60.2	25.0	37.7	43.7	54.0	40.7	52.2
20	44.3	58.1	25.0	36.0	41.8	52.1	38.8	50.3
25	41.8	56.1	24.3	38.6	39.8	50.2	36.8	48.4
31.25	39.2	53.6	23.6	38.3	37.9	48.1	34.9	46.4
62.5	30.0	45.0	21.5	32.8	31.9	41.4	28.9	40.3
100	22.5	37.0	20.1	30.7	27.8	36.8	24.8	35.2
155	14.3	29.1	18.8	28.8	24.0	33.3	21.0	31.9
200	8.8	24.0	18.0	27.6	21.8	32.6	18.8	31.8
250	3.5	18.8	17.3	28.5	19.8	32.5	16.8	31.3
300		15.8		28.6		30.8		28.9
350		11.6		29.0		26.8		25.4
400		5.0		24.9		24.7		23.5
450		1.2		23.9		23.2		21.9
500				25.0		22.5		21.5
550				24.2		22.4		22.0

Rev 7/15 Ed 13.0







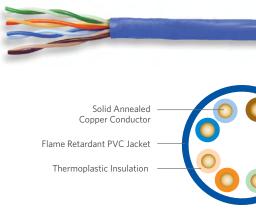
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EMB

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SPECIFICATIONS	
Pair Count	4
Conductor	Solid annealed copper
AWG (mm)	23 (0.57)
Insulation	Polyolefin
Insulation Colors	Pair 1: ColorTip Light Blue, Blue Pair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, Brown
Jacket	Flame retardant (FR) PVC
Characteristic Impedance Ohms	100 ± 15
Nominal Velocity of Propagation %	70
Performance Compliance	UL® 444 CSA C22.2 No. 214-08 UL 1685 ANSI/TIA-568-C.2 ANSI/TIA/EIA-570-B Article 800, NEC (NFPA 70) RoHS-compliant/RoHS 2-compliant
NRTL Programs	UL Verified CAT 6 UL, c(UL) Listed CM

PRODUCT DESCRIPTION

Superior Essex Category 6 CM cable is designed for residential LAN applications. CAT 6 compliance ensures this cable will support 1000BASE-T Gigabit Ethernet. This cable easily surpasses the Grade 2 requirements specified in the ANSI/TIA/EIA-570-B Residential Telecommunications standard.

APPLICATIONS

- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2
- ATM and token ring

FEATURES

BENEFITS

tone the cable Provides remaining length

of cable on reel

• Easily identifiable conductor

• Easily identifies jacket colors

mates even in low-light environments

to be easily identifiable without the need to separately label or

 Meets ANSI/TIA-568-C.2 Provides cost effective solution specification CableID[®] alpha numeric code • Allows both ends of a cable run .

- printed every 2 feet
- QuickCount[®] marking system in feet and meters
- ColorTip[®] circuit . identification system
- Color coded box labels

PREMISES CABLE

I takin n	David Niverala au	Nominal Diameter	Approx. Weight	Dealesse	De alva era era er Dallat
Listing	Part Number ¹	in (mm)	lbs/kft (kg/km)	Package	Packages per Pallet
СМ	77-272-xG	0.20 (5.1)	20 (30)	1,000' Plywood reel	16
CKET COLORS					

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OSP CABLE PREMISES CABLE

FTTP

WIRELESS

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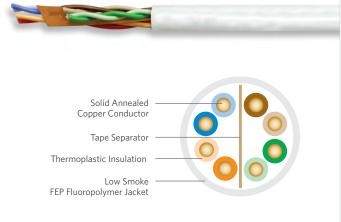
	Insertion Loss @ 20°C Maximum dB/100 m					linimum 00 m	PSNEXT Minimum dB/100 m	
Frequency	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex
MHz	Specified	Typical	Specified	Typical	Calculated	Typical	Specified	Typical
1	2.0	1.7	74.3	82.9	72.3	82.2	72.3	81.9
4	3.8	3.4	65.3	77.6	61.5	74.2	63.3	75.0
8	5.3	4.8	60.8	74.4	55.4	68.9	58.8	71.9
10	6.0	5.4	59.3	70.1	53.3	64.7	57.3	68.3
16	7.6	6.9	56.2	69.6	48.6	62.5	54.2	67.1
20	8.5	7.8	54.8	68.7	46.3	60.7	52.8	65.7
25	9.5	8.8	53.3	66.1	43.8	58.7	51.3	64.7
31.25	10.7	9.8	51.9	67.8	41.2	56.2	49.9	63.4
62.5	15.4	14.2	47.4	64.0	32.0	47.8	45.4	59.1
100	19.8	18.2	44.3	58.0	24.5	38.7	42.3	55.0
155	25.2	23.0	41.4	54.5	16.3	31.6	39.4	52.1
200	29.0	26.6	39.8	53.8	10.8	26.5	37.8	50.6
250	32.8	30.1	38.3	51.0	5.5	21.1	36.3	48.7
300		33.4		53.8		19.4		49.1
350		36.5		50.1		14.3		47.5
400		39.5		49.1		8.0		44.5
450		42.3		44.6		3.3		43.4
500		45.1		42.9				41.7
550		47.7		41.6				39.1

		Vinimum 00 m	m Return Loss M dB/100			Vinimum 00 m		Г Minimum 100 m
Frequency	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex
MHz	Calculated	Typical	Specified	Typical	Specified	Typical	Specified	Typical
1	70.3	80.2	20.0	26.0	67.8	78.7	64.8	76.6
4	59.5	71.6	23.0	31.1	55.8	65.9	52.8	64.2
8	53.4	67.1	24.5	34.5	49.7	60.1	46.7	58.4
10	51.3	62.9	25.0	36.3	47.8	58.1	44.8	56.4
16	46.6	60.2	25.0	37.7	43.7	54.0	40.7	52.2
20	44.3	58.1	25.0	36.0	41.8	52.1	38.8	50.3
25	41.8	56.1	24.3	38.6	39.8	50.2	36.8	48.4
31.25	39.2	53.6	23.6	38.3	37.9	48.1	34.9	46.4
62.5	30.0	45.0	21.5	32.8	31.9	41.4	28.9	40.3
100	22.5	37.0	20.1	30.7	27.8	36.8	24.8	35.2
155	14.3	29.1	18.8	28.8	24.0	33.3	21.0	31.9
200	8.8	24.0	18.0	27.6	21.8	32.6	18.8	31.8
250	3.5	18.8	17.3	28.5	19.8	32.5	16.8	31.3
300		15.8		28.6		30.8		28.9
350		11.6		29.0		26.8		25.4
400		5.0		24.9		24.7		23.5
450		1.2		23.9		23.2		21.9
500				25.0		22.5		21.5
550				24.2		22.4		22.0

All information, content, dato, specifications, packaging and part numbers detailed herein are subject to change. For the most up-to-date information, please visit SuperiorEssex.com. Purchase of this product is subject exclusively to the then current Superior Essex International LP Terms and Conditions of Sale for Communications and Energy Cable, Wire and Connectivity Products, which can be found on our website, SuperiorEssex.com, or provided to you upon request.



CMP



SPECIFICATIONS	
Pair Count	4
Conductor	Solid annealed copper
AWG (mm)	23
Insulation	FEP
Insulation Colors	Pair 1: ColorTip Light Blue, Blue Pair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, Brown
Jacket	Low smoke FEP
Characteristic Impedance Ohms	100 ± 15
Nominal Velocity of Propagation %	74
Performance Compliance	NFPA 262 ANSI/TIA-568-C.2 Article 800, NEC (NFPA 70)
NRTL Programs	UL Verified 6 UL, c(UL) Listed CMP
Sustainability	UL Certified EPD HPD Multi-Attribute Certification USGBC® Member RoHS-compliant/RoHS 2-compliant REACH-compliant

ENVIRONMENTAL SPECIFICATIONS			
Operation	-40°C to +200°C		
Storage/Shipping	-40°C to +200°C		
Installation	-40°C to +200°C		

PART NUMBERS AND PHYSICAL CHARACTERISTICS

PRODUCT	DESCRIPTION

FIRST MANUFACTURER IN THE INDUSTRY

FEP Jacketed Category 6 Plenum is designed for high-risk applications such as chemical processing plants, petroleum refineries, and temperature extremes. Employing the latest polymer technology, FEP Jacketed Category 6 Plenum is constructed entirely of chemical, oil, heat, and moisture resistant FEP fluoropolymer. It is ideally suited for industrial UTP applications where severe environmental stresses would compromise standard PVC plenum cables. Additionally, the cable is specially processed to ensure a more durable print legend.

APPLICATIONS

- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2
- ATM and token ring .
- Works well in high-risk environments
- · For installations with thermal or chemical exposure

FEATURES BENEFITS UL[®] Certified Environmental Contributes toward 1 LEED point under the Material and Product Declaration (EPD) Resources credit (MRc) Health Product Declaration[™] Contributes toward 1 LEED (HPD™) point under the MRc Multi-Attribute Certification Offers an overview of the by GreenCircle Certified, LLC sustainability of a product, its packaging and manufacturing FEP Jacket Lower smoke emission in plenum test than PVC All fluoropolymer construction Resistant to chemical, moisture, . thermal exposure RoHS-compliant . No heavy metals; no toxic components Meets or exceeds CAT 6 Reliable performance . requirements Durable cable print · Print legend does not rub off . BrakeBox[®] payout . Adjustable tension control control system on reel prevents over spin and entangling of cable QuickCount[®] marking system Provides remaining length . in feet and meters of cable on reel ColorTip® circuit Easily identifiable conductor identification system mates, even in low-light environments

• Easily identifiable jacket colors

Part Number ¹	Nominal Diameter in (mm)	Approx. Weight Ibs/kft (kg/km)	Package	Packages per Pallet
66-246-xP	0.20 (5.1)	25 (11)	1,000' BrakeBox	27
66-272-xP	0.20 (5.1)	25 (11)	1,000' Plywood Reel	16

JACKET COLORS		
¹ Replace "x" with:	Blue = 2	White = 4



Color-coded box labels

PREMISES CABLE

ELECTRICAL SP	ECIFICATIONS							
		020°C Maximum 00 m		1inimum 00 m		linimum 00 m		Minimum IOO m
Frequency	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex
MHz	Specified	Typical	Specified	Typical	Calculated	Typical	Specified	Typical
1	2.0	1.7	74.3	82.9	72.3	82.2	72.3	81.9
4	3.8	3.4	65.3	77.6	61.5	74.2	63.3	75.0
8	5.3	4.8	60.8	74.4	55.4	68.9	58.8	71.9
10	6.0	5.4	59.3	70.1	53.3	64.7	57.3	68.3
16	7.6	6.9	56.2	69.6	48.6	62.5	54.2	67.1
20	8.5	7.8	54.8	68.7	46.3	60.7	52.8	65.7
25	9.5	8.8	53.3	66.1	43.8	58.7	51.3	64.7
31.25	10.7	9.8	51.9	67.8	41.2	56.2	49.9	63.4
62.5	15.4	14.2	47.4	64.0	32.0	47.8	45.4	59.1
100	19.8	18.2	44.3	58.0	24.5	38.7	42.3	55.0
155	25.2	23.0	41.4	54.5	16.3	31.6	39.4	52.1
200	29.0	26.6	39.8	53.8	10.8	26.5	37.8	50.6
250	32.8	30.1	38.3	51.0	5.5	21.1	36.3	48.7
300		33.4		53.8		19.4		49.1
350		36.5		50.1		14.3		47.5
400		39.5		49.1		8.0		44.5
450		42.3		44.6		3.3		43.4
500		45.1		42.9				41.7
550		47.7		41.6				39.1

		Minimum 00 m		s Minimum 00 m		Minimum 00 m		Г Minimum IOO m
Frequency	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex
MHz	Calculated	Typical	Specified	Typical	Specified	Typical	Specified	Typical
1	70.3	80.2	20.0	26.0	67.8	78.7	64.8	76.6
4	59.5	71.6	23.0	31.1	55.8	65.9	52.8	64.2
8	53.4	67.1	24.5	34.5	49.7	60.1	46.7	58.4
10	51.3	62.9	25.0	36.3	47.8	58.1	44.8	56.4
16	46.6	60.2	25.0	37.7	43.7	54.0	40.7	52.2
20	44.3	58.1	25.0	36.0	41.8	52.1	38.8	50.3
25	41.8	56.1	24.3	38.6	39.8	50.2	36.8	48.4
31.25	39.2	53.6	23.6	38.3	37.9	48.1	34.9	46.4
62.5	30.0	45.0	21.5	32.8	31.9	41.4	28.9	40.3
100	22.5	37.0	20.1	30.7	27.8	36.8	24.8	35.2
155	14.3	29.1	18.8	28.8	24.0	33.3	21.0	31.9
200	8.8	24.0	18.0	27.6	21.8	32.6	18.8	31.8
250	3.5	18.8	17.3	28.5	19.8	32.5	16.8	31.3
300		15.8		28.6		30.8		28.9
350		11.6		29.0		26.8		25.4
400		5.0		24.9		24.7		23.5
450		1.2		23.9		23.2		21.9
500				25.0		22.5		21.5
550				24.2		22.4		22.0

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EMB

800.551.8948 SuperiorEssex.com



A-63

PREMISES CABLE OSP CABLE FTTP WIRELESS TECH

FTTP WIRELESS TECHINFO IND

CMR/CMX Outdoor Sunlight Resistant

Black PVC Jacket

Tape Separator Solid Annealed Copper Conductor Rip Cord Thermoplastic Insulation Flame, Weather, Abrasion and Sunlight Resistant

Pair Count4ConductorSolid annealed copperAWG (mm)23 (0.57)InsulationPolyolefinInsulation ColorsPair 1: ColorTip Light Blue, Blue Pair 2: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, BrownRipcordNon-wicking polyester yarnJacketBlackCharacteristic ImpedanceBlackNominal Velocity of Propagation %70Performance ComplianceUL 444 CSA C22.2 No. 214-08 UL 1581 UL 1666 ANSI/TIA-568-C.2 ANSI/TIA/EIA-S70-B Article 800, NEC (NFPA 70) RoHS-compliant/RoHS 2-compliantNRTL ProgramsUL Verified CAT 6 UL, C(UL) Listed CMX Outdoor Sunlight Resistant	SPECIFICATIONS	
AWG (mm)23 (0.57)InsulationPolyolefinInsulation ColorsPair 1: ColorTip Light Blue, Blue Pair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, BrownRipcordNon-wicking polyester yarnJacketTough, flame retardant, weather, sunlight and abrasion resistant riser PVCJacket ColorBlackCharacteristic Impedance OhmsUL 444 UL 1581 UL 1581 UL 1666 ANSI/TIA/EIA-S70-B Article 800, NEC (NFPA 70) RoHS-compliantNRTL ProgramsUL Verified CAT 6 UL, c(UL) Listed CMR UL, c(UL) Listed CMR UL, c(UL) Listed CMR	Pair Count	4
InsulationPolyolefinInsulation ColorsPair 1: ColorTip Light Blue, Blue Pair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, BrownRipcordNon-wicking polyester yarnJacketTough, flame retardant, weather, sunlight and abrasion resistant riser PVCJacket ColorBlackCharacteristic Impedance Ohms100 ± 15Nominal Velocity of Propagation %70Performance ComplianceUL 444 UL 1581 UL 1666 ANSI/TIA-568-C.2 ANSI/TIA/EIA-570-B Article 800, NEC (NFPA 70) RoHS-compliant/RoHS 2-compliantNRTL ProgramsUL Verified CAT 6 UL, c(UL) Listed CMR UL, c(UL) Listed CMR UL, c(UL) Listed CMR	Conductor	Solid annealed copper
Insulation ColorsPair 1: ColorTip Light Blue, Blue Pair 1: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, BrownRipcordNon-wicking polyester yarnJacketTough, flame retardant, weather, sunlight and abrasion resistant riser PVCJacket ColorBlackCharacteristic Impedance Ohms100 ± 15Nominal Velocity of Propagation %70Performance ComplianceUL 444 UL 1666 ANSI/TIA-568-C.2 ANSI/TIA/EIA-570-B Article 800, NEC (NFPA 70) RoHS-compliant/RoHS 2-compliantNRTL ProgramsUL Verified CAT 6 UL, c(UL) Listed CMR UL, c(UL) Listed CMR	AWG (mm)	23 (0.57)
Insulation ColorsPair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, BrownRipcordNon-wicking polyester yarnJacketTough, flame retardant, weather, sunlight and abrasion resistant riser PVCJacket ColorBlackCharacteristic Impedance Ohms100 ± 15Nominal Velocity of Propagation %00 UL 444 UL 1666 ANSI/TIA-568-C.2 ANSI/TIA/EIA-S70-B Arcicle 800, NEC (NFPA 70) ReHS-compliantNRTL ProgramsUL Verified CAT 6 UL, c(UL) Listed CMR UL, c(UL) Listed CMR	Insulation	Polyolefin
Jacket Tough, flame retardant, weather, sunlight and abrasion resistant riser PVC Jacket Color Black Characteristic Impedance Ohms 100 ± 15 Nominal Velocity of Propagation % 70 Performance Compliance UL 444 CSA C22.2 No. 214-08 UL 1581 UL 1666 ANSI/TIA-568-C.2 ANSI/TIA/EIA-570-B Article 800, NEC (NFPA 70) RoHS-compliant/RoHS 2-compliant NRTL Programs UL verified CAT 6 UL, c(UL) Listed CMR UL, c(UL) Listed CMR	Insulation Colors	Pair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green
Jacket Black Jacket Color Black Characteristic Impedance 100 ± 15 Nominal Velocity of Propagation % 70 Performance Compliance UL 444 CSA C22.2 No. 214-08 UL 1581 UL 1666 ANSI/TIA/EIA-570-B Article 800, NEC (NFPA 70) RoHS-compliant/RoHS 2-compliant NRTL Programs UL verified CAT 6 UL, c(UL) Listed CMR UL, c(UL) Listed CMR	Ripcord	Non-wicking polyester yarn
Characteristic Impedance Ohms 100 ± 15 Nominal Velocity of Propagation % 70 Performance Compliance UL 444 CSA C22.2 No. 214-08 UL 1581 UL 1666 ANSI/TIA-568-C.2 ANSI/TIA/EIA-570-B Article 800, NEC (NFPA 70) RoHS-compliant/RoHS 2-compliant NRTL Programs UL verified CAT 6 UL, c(UL) Listed CMR UL, c(UL) Listed CMR	Jacket	
Ohms IOU ± 15 Nominal Velocity of Propagation % 70 Performance Compliance UL 444 CSA C22.2 No. 214-08 UL 1581 UL 1666 ANSI/TIA/EIA-570-B Article 800, NEC (NFPA 70) RoHS-compliant/RoHS 2-compliant NRTL Programs UL verified CAT 6 UL, c(UL) Listed CMR UL, c(UL) Listed CMR	Jacket Color	Black
% 70 Performance Compliance UL 444 CSA C22.2 No. 214-08 UL 1581 UL 1666 ANSI/TIA-568-C.2 ANSI/TIA/EIA-570-B Article 800, NEC (NFPA 70) RoHS-compliant/RoHS 2-compliant NRTL Programs UL verified CAT 6 UL, c(UL) Listed CMR UL, c(UL) Listed CMR		100 ± 15
Performance Compliance CSA C22.2 No. 214-08 UL 1581 UL 1666 ANSI/TIA-568-C.2 ANSI/TIA-568-C.2 ANSI/TIA/EIA-570-B Article 800, NEC (NFPA 70) RoHS-compliant/RoHS 2-compliant NRTL Programs UL Verified CAT 6 UL, c(UL) Listed CMR UL, c(UL) Listed CMX		70
NRTL Programs UL, c(UL) Listed CMR UL, c(UL) Listed CMX	Performance Compliance	CSA C22.2 No. 214-08 UL 1581 UL 1666 ANSI/TIA-568-C.2 ANSI/TIA/EIA-570-B Article 800, NEC (NFPA 70)
	NRTL Programs	UL, c(UL) Listed CMR UL, c(UL) Listed CMX

ENVIRONMENTAL SPECIFICATIONS AND TESTS			
Operation	-40°F to +167°F (-40°C to +75°C)		
Installation	-40°F to +140°F (-40°C to +60°C)		
ANSI/ICEA S-100-685-2009 Tested down to -67°F (-55°C)	Section 7.1: -4°F (-20°C) cold bend test Section 7.2: +14°F (-10°C) cold impact test Section 7.3: -40°F (-40°C) anvil test		

PRODUCT DESCRIPTION

The Superior Essex Category 6 CMR/CMX Outdoor Sunlight Resistant cable is specifically designed for extreme sunlight and temperature applications. The level of UV blocking compounds is the same as in traditional Outside Plant (OSP) cable products, with the black color preventing damage from long-term UV sunlight exposure. Applications include Ethernet interconnect cable for Wi-Fi or retrofit cable installations that employ exterior runs having long-term outdoor exposure between two environmentally protected points. CMX Outdoor cables are designed to extend the run between the Network Interface Unit and the point of entry into the interior of a residence or a premise.

Superior Essex CAT 6 CMR/CMX Outdoor Sunlight Resistant black premises cable has been tested and listed as UL® 444 Sunlight Resistant compliant. This designation requires the cable to resist 720 hours of harsh UV and heat, which is more than twice the exposure time of the standard 300 hours required in the CMX Outdoor test. In addition, the CMR listing allows the cable to be used in riser spaces per UL 1666, eliminating the need to transition to fire resistant cables.

APPLICATIONS

- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2
- Wi-Fi IEEE 802.11a/b/g/n

FEATURES

	22020.00
Combined indoor/outdoor rating	 Reduces inventory by eliminating multiple cable types
 UL 444/UL 1581 Sunlight Resistant Listed 	 Increased life in direct, long term sunlight
 Meets ANSI/TIA-568-C.2 specification 	CAT 6 performance
 BrakeBox[®] payout control system 	 Adjustable tension control on reel prevents over spin and entangling of cable
 Moisture-resistant package 	 Resists damp conditions that might weaken standard packages
 CableID[®] alpha numeric code printed every 2 feet 	 Allows both ends of a cable run to be easily identifiable without the need to separately label or tone the cable
 QuickCount[®] marking system in feet and meters 	 Provides remaining length of cable on reel
 ColorTip[®] Circuit Identification System 	 Easily identifiable conductor mates even in low-light

BENEFITS

- Rip cord applied under jacket
- RoHS-compliant
 - CAUTI

CAUTIONARY INFORMATION

- Do not use as a substitute for Outside Plant (OSP) cables.
 Do not use in conduit or direct burial which can flood.
- These cables are not designed for extended exposure to water.

environments

 No heavy metals; and no toxic components

• Facilitates easy opening

PART NUMBERS AND PHYSIC	AL CHARACTERISTICS			
Part Number	Nominal Diameter in (mm)	Approx. Weight Ibs/kft (kg/km)	Package	Packages per Pallet
77-246-E1	0.27 (6.9)	31 (46)	1,000' BrakeBox	12

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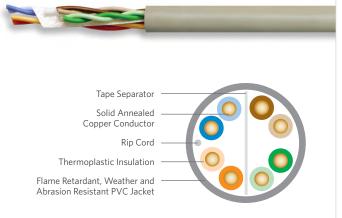
ELECTRICAL SPECIFICATIONS								
		0 20°C Maximum 00 m		∕linimum 00 m		inimum 00 m		Minimum IOO m
Frequency	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex
MHz	Specified	Typical	Specified	Typical	Calculated	Typical	Specified	Typical
1	2.0	1.7	74.3	82.9	72.3	82.2	72.3	81.9
4	3.8	3.4	65.3	77.6	61.5	74.2	63.3	75.0
8	5.3	4.8	60.8	74.4	55.4	68.9	58.8	71.9
10	6.0	5.4	59.3	70.1	53.3	64.7	57.3	68.3
16	7.6	6.9	56.2	69.6	48.6	62.5	54.2	67.1
20	8.5	7.8	54.8	68.7	46.3	60.7	52.8	65.7
25	9.5	8.8	53.3	66.1	43.8	58.7	51.3	64.7
31.25	10.7	9.8	51.9	67.8	41.2	56.2	49.9	63.4
62.5	15.4	14.2	47.4	64.0	32.0	47.8	45.4	59.1
100	19.8	18.2	44.3	58.0	24.5	38.7	42.3	55.0
155	25.2	23.0	41.4	54.5	16.3	31.6	39.4	52.1
200	29.0	26.6	39.8	53.8	10.8	26.5	37.8	50.6
250	32.8	30.1	38.3	51.0	5.5	21.1	36.3	48.7
300		33.4		53.8		19.4		49.1
350		36.5		50.1		14.3		47.5
400		39.5		49.1		8.0		44.5
450		42.3		44.6		3.3		43.4
500		45.1		42.9				41.7
550		47.7		41.6				39.1

		/linimum 00 m		s Minimum 00 m		Vinimum 00 m		Г Minimum 100 m
Frequency	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex
MHz	Calculated	Typical	Specified	Typical	Specified	Typical	Specified	Typical
1	70.3	80.2	20.0	26.0	67.8	78.7	64.8	76.6
4	59.5	71.6	23.0	31.1	55.8	65.9	52.8	64.2
8	53.4	67.1	24.5	34.5	49.7	60.1	46.7	58.4
10	51.3	62.9	25.0	36.3	47.8	58.1	44.8	56.4
16	46.6	60.2	25.0	37.7	43.7	54.0	40.7	52.2
20	44.3	58.1	25.0	36.0	41.8	52.1	38.8	50.3
25	41.8	56.1	24.3	38.6	39.8	50.2	36.8	48.4
31.25	39.2	53.6	23.6	38.3	37.9	48.1	34.9	46.4
62.5	30.0	45.0	21.5	32.8	31.9	41.4	28.9	40.3
100	22.5	37.0	20.1	30.7	27.8	36.8	24.8	35.2
155	14.3	29.1	18.8	28.8	24.0	33.3	21.0	31.9
200	8.8	24.0	18.0	27.6	21.8	32.6	18.8	31.8
250	3.5	18.8	17.3	28.5	19.8	32.5	16.8	31.3
300		15.8		28.6		30.8		28.9
350		11.6		29.0		26.8		25.4
400		5.0		24.9		24.7		23.5
450		1.2		23.9		23.2		21.9
500				25.0		22.5		21.5
550				24.2		22.4		22.0

Rev 7/15 All information, content, data, specifications, packaging and part numbers detailed herein are subject to change. For the most up-to-date information, please visit SuperiorEssex.com. Purchase of this product is subject exclusively to the then current **Superior Essex International LP Terms and Conditions of Sale for Communications and Energy Cable, Wire and Connectivity Products,** which can be found on our website, SuperiorEssex.com, or provided to you upon request.



Category 6 CMR/CMX Outdoor



SPECIFICATIONS	
Pair Count	4
Conductor	Solid annealed copper
AWG (mm)	23 (0.57)
Insulation	Polyolefin
Insulation Colors	Pair 1: ColorTip Light Blue, Blue Pair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, Brown
Ripcord	Non-wicking polyester yarn
Jacket	Tough, flame retardant, weather, UV and abrasion resistant riser PVC
Characteristic Impedance Ohms	100 ± 15
Nominal Velocity of Propagation %	70
Performance Compliance	UL 444 CSA C22.2 No. 214-08 UL 1581 UL 1666 ANSI/TIA-568-C.2 ANSI/TIA/EIA-570-B Article 800, NEC (NFPA 70) RoHS-compliant/RoHS 2-compliant
NRTL Programs	UL Verified CAT 6 UL, c(UL) Listed CMR UL, c(UL) Listed CMX Outdoor

ENVIRONMENTAL SPECIFICATIONS AND TESTS				
Operation	-40°F to +167°F (-40°C to +75°C)			
Installation	-40°F to +140°F (-40°C to +60°C)			
ANSI/ICEA S-100-685-2009 Tested down to -67°F (-55°C)	Section 7.1: -4°F (-20°C) cold bend test Section 7.2: +14°F (-10°C) cold impact test Section 7.3: -40°F (-40°C) anvil test			

PRODUCT DESCRIPTION

The Superior Essex Category 6 CMR/CMX Outdoor cable is specifically designed for outdoor applications. UV-blocking compounds aid in protecting the cable from light. Applications include Ethernet interconnect cable for Wi-Fi or retrofit cable installations that employ exterior runs having long-term outdoor exposure between two environmentally protected points. CMX Outdoor cables are designed to extend the run between the Network Interface Unit and the point of entry into the interior of a residence or a premise.

Superior Essex CAT 6 CMR/CMX Outdoor premises cable has been tested and listed as UL[®] 444 Outdoor compliant. This designation requires the cable to resist 300 hours of UV and heat. In addition, the CMR listing allows the cable to be used in riser spaces per UL 1666, eliminating the need to transition to fire resistant cables.

Combined indoor/outdoor rating
 Reduces inventory by

BENEFITS

eliminating multiple cable types

CAT 6 performance

Adjustable tension control

Resists damp conditions that might weaken standard

Provides remaining length of cable on reel

Easily identifiable conductor

mates even in low-light environments

Facilitates easy opening

 No heavy metals; and no toxic components

Allows both ends of a cable run

to be easily identifiable without the need to separately label or

packages

tone the cable

on reel prevents over spin and entangling of cable

APPLICATIONS

- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2
- Wi-Fi IEEE 802.11a/b/g/n

FEATURES

•	Meets ANSI/TIA-568-C.2
	specification

- BrakeBox[®] payout control system
- Moisture-resistant package
- CableID[®] alpha numeric code printed every 2 feet
- QuickCount[®] marking system in feet and meters
- ColorTip[®] Circuit Identification System
- Rip cord applied under jacket
- RoHS-compliant

CAUTIONARY INFORMATION

Do not use as a substitute for Outside Plant (OSP) cables.
Do not use in conduit or direct burial which can flood. These cables are not designed for extended exposure to water.

ART NUMBERS AND PHYSICAL CHARACTERISTICS					
Part Number ¹	Nominal Diameter in (mm)	Approx. Weight Ibs/kft (kg/km)	Package	Packages per Pallet	
77-246-x1	0.27 (6.9)	31 (46)	1,000' BrakeBox	12	

JACKET COLORS							
¹ Replace "x" with:		Blue = 2		White = 4			
III is a registered trademark of III IIC							

UL is a registered trademark of UL LLC



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	Insertion Loss @ 20°C Maximum dB/100 m		NEXT Minimum dB/100 m		ACR Minimum dB/100 m		PSNEXT Minimum dB/100 m	
Frequency	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex
MHz	Specified	Typical	Specified	Typical	Calculated	Typical	Specified	Typical
1	2.0	1.7	74.3	82.9	72.3	82.2	72.3	81.9
4	3.8	3.4	65.3	77.6	61.5	74.2	63.3	75.0
8	5.3	4.8	60.8	74.4	55.4	68.9	58.8	71.9
10	6.0	5.4	59.3	70.1	53.3	64.7	57.3	68.3
16	7.6	6.9	56.2	69.6	48.6	62.5	54.2	67.1
20	8.5	7.8	54.8	68.7	46.3	60.7	52.8	65.7
25	9.5	8.8	53.3	66.1	43.8	58.7	51.3	64.7
31.25	10.7	9.8	51.9	67.8	41.2	56.2	49.9	63.4
62.5	15.4	14.2	47.4	64.0	32.0	47.8	45.4	59.1
100	19.8	18.2	44.3	58.0	24.5	38.7	42.3	55.0
155	25.2	23.0	41.4	54.5	16.3	31.6	39.4	52.1
200	29.0	26.6	39.8	53.8	10.8	26.5	37.8	50.6
250	32.8	30.1	38.3	51.0	5.5	21.1	36.3	48.7
300		33.4		53.8		19.4		49.1
350		36.5		50.1		14.3		47.5
400		39.5		49.1		8.0		44.5
450		42.3		44.6		3.3		43.4
500		45.1		42.9				41.7
550		47.7		41.6				39.1

		Minimum 00 m		s Minimum 00 m		Vinimum 00 m		Г Minimum 100 m
Frequency	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex
MHz	Calculated	Typical	Specified	Typical	Specified	Typical	Specified	Typical
1	70.3	80.2	20.0	26.0	67.8	78.7	64.8	76.6
4	59.5	71.6	23.0	31.1	55.8	65.9	52.8	64.2
8	53.4	67.1	24.5	34.5	49.7	60.1	46.7	58.4
10	51.3	62.9	25.0	36.3	47.8	58.1	44.8	56.4
16	46.6	60.2	25.0	37.7	43.7	54.0	40.7	52.2
20	44.3	58.1	25.0	36.0	41.8	52.1	38.8	50.3
25	41.8	56.1	24.3	38.6	39.8	50.2	36.8	48.4
31.25	39.2	53.6	23.6	38.3	37.9	48.1	34.9	46.4
62.5	30.0	45.0	21.5	32.8	31.9	41.4	28.9	40.3
100	22.5	37.0	20.1	30.7	27.8	36.8	24.8	35.2
155	14.3	29.1	18.8	28.8	24.0	33.3	21.0	31.9
200	8.8	24.0	18.0	27.6	21.8	32.6	18.8	31.8
250	3.5	18.8	17.3	28.5	19.8	32.5	16.8	31.3
300		15.8		28.6		30.8		28.9
350		11.6		29.0		26.8		25.4
400		5.0		24.9		24.7		23.5
450		1.2		23.9		23.2		21.9
500				25.0		22.5		21.5
550				24.2		22.4		22.0

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A-67

Solid Annealed Copper Conductor	
Thermoplastic Insulation	
Flame Retardant PVC Jacket	

SPECIFICATIONS	
Pair Count	4
Conductor	Solid annealed copper
AWG (mm)	24 (0.51)
Insulation	CMR: Polyolefin CMP: FEP
Insulation Colors	Pair 1: ColorTip Light Blue, Blue Pair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, Brown
Jacket	CMR: Flame retardant (FR) PVC CMP: FR, low smoke PVC
Characteristic Impedance Ohms	100 ± 15
Nominal Velocity of Propagation %	CMR: 70 CMP: 73
Performance Compliance	UL 444 CSA C22.2 No. 214-08 UL 1666 NFPA 262 ANSI/TIA-568-C.2 ANSI/ICEA S-90-661-2012 Article 800, NEC (NFPA 70)
NRTL Programs	UL Verified CAT 5e UL, c(UL) Listed CMR UL, c(UL) Listed CMP
Sustainability	UL Certified EPD HPD Multi-Attribute Certification USGBC® Member RoHS-compliant/RoHS 2-compliant REACH-compliant

PRODUCT DESCRIPTION

FIRST MANUFACTURER IN THE INDUSTRY to offer products that contribute toward LEED!

Cobra Category 5e+ cable is the performance leader in its class. Cobra cable is ideal for installations that require true "future proofing" in channel performance. By design, Cobra cables are manufactured to the highest quality standards, design requirements and materials to ensure that every box provides significant margin over ANSI/TIA-568-C.2 specifications for NEXT, Power Sum NEXT and Insertion Loss.

APPLICATIONS

- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2
- ATM and token ring

FEATURES	BENEFITS
UL Certified Environmental Product Declaration (EPD)	Contributes toward 1 LEED point under the Material and Resources credit (MRc)
 Health Product Declaration[™] (HPD[™]) 	 Contributes toward 1 LEED point under the MRc
Multi-Attribute Certification by GreenCircle Certified, LLC	 Offers an overview of the sustainability of a product, its packaging and manufacturing
Guaranteed NEXT of 3 dB greater than ANSI/TIA-568-C.2 specification across frequency range	Greater assurance of exceptional overall channel performance
Guaranteed ACR of 19.5 dB at 100 MHz	 Performance assurance for multiple high-bandwidth applications
 Exceptional PSNEXT, PSELFEXT and PSACR over CAT 5e 	 Reduces BER, improving network efficiency
 "WideMouth" POP™ Box design 	 Reduces tension on wire to ensure proper electrical performance after installation
 CableID[®] alpha numeric code printed every 2 feet 	 Allows both ends of a cable run to be easily identifiable without the need to separately label or tone the cable
 QuickCount[®] marking system in feet and meters 	 Provides remaining length of cable on reel
 ColorTip[®] circuit identification system 	 Easily identifiable conductor mates even in low-light environments

- Color coded box labels
- Easily identifies jacket colors

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Listing	Part Number ¹	Nominal Diameter in (mm)	Approx. Weight Ibs/kft (kg/km)	Package	Packages per Pallet
CMR	52-200-x5	0.19 (4.8)	19 (28)	1,000' Reel-in-a-Box	45
CMR	52-240-x5	0.19 (4.8)	19 (28)	1,000' POP box	36
CMP	52-200-x8	0.19 (4.8)	19 (28)	1,000' Reel-in-a-Box	45
CMP	52-241-x8	0.19 (4.8)	19 (28)	1,000' POP box	36

¹ Replace "x" with:	Blue = 2	Gray = 3	White = 4	Green = 5	Yellow = 6	Purple = 7	Red = 9	Brown = B	Orange = D	Black = E



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	SPECIFICATION											
	Insertion Loss @ 20°C Maximum dB/100 m			NEXT Minimum dB/100 m			ACR Minimum dB/100 m			PSNEXT Minimum dB/100 m		
Frequency	TIA-568-C.2	Superior I	Essex	TIA-568-C.2	Superior I	Essex	TIA-568-C.2	Superior I	Essex	TIA-568-C.2	Superior I	Essex
MHz	Specified	Guaranteed	Typical	Specified	Guaranteed	Typical	Calculated	Guaranteed	Typical	Specified	Guaranteed	Typical
1	2.0	2.0	1.8	65.3	68.3	79.5	63.3	67.4	77.7	62.3	66.3	77.2
4	4.1	4.0	3.6	56.3	59.3	69.9	52.2	56.4	66.4	53.3	57.3	67.5
8	5.8	5.7	5.1	51.8	54.8	65.1	46.0	50.3	60.0	48.8	52.8	62.7
10	6.5	6.4	5.8	50.3	53.3	63.6	43.8	48.2	57.9	47.3	51.3	61.2
16	8.2	8.1	7.4	47.2	50.3	60.4	39.0	43.4	53.1	44.2	48.3	58.0
20	9.3	9.2	8.3	45.8	48.8	59.0	36.5	41.0	50.9	42.8	46.8	56.6
25	10.4	10.3	9.3	44.3	47.3	57.5	33.9	38.5	48.3	41.3	45.3	55.1
31.25	11.7	11.6	10.4	42.9	45.9	56.0	31.2	35.8	45.7	39.9	43.9	53.5
62.5	17.0	16.8	14.9	38.4	41.4	51.7	21.4	26.2	36.8	35.4	39.4	49.2
100	22.0	21.7	19.1	35.3	38.3	48.5	13.3	21.0	29.5	32.3	36.3	46.0
155		27.7	24.2		35.5	45.7		9.3	21.6		33.5	43.1
200		32.1	27.8		29.8	43.6		3.5	16.0		27.8	41.0
250		36.5	31.4		28.3	42.0			10.7		26.3	39.4
300		40.5	34.7		27.2	40.4			5.9		25.2	37.9
350		44.4	37.7		26.2	39.3			1.7		24.2	36.8

	PSACR Minimum dB/100 m			Return Loss Minimum dB/100 m				(T Minimum B/100 m		PSELFEXT Minimum dB/100 m		
Frequency	TIA-568-C.2	TIA-568-C.2 Superior Essex		TIA-568-C.2 Superior Essex		TIA-568-C.2 Superior Essex			TIA-568-C.2 Superior Essex		Essex	
MHz	Calculated	Guaranteed	Typical	Specified	Guaranteed	Typical	Specified	Guaranteed	Typical	Specified	Guaranteed	Typical
1	60.3	64.4	75.4	20.0	20.0	28.5	63.8	63.8	72.6	60.8	60.8	70.8
4	49.2	53.4	64.0	23.0	23.0	35.6	51.8	51.7	60.7	48.8	48.8	59.0
8	43.0	47.3	57.7	24.5	24.5	35.7	45.7	45.7	54.8	42.7	42.7	53.1
10	40.8	45.2	55.6	25.0	25.0	35.9	43.8	43.8	52.9	40.8	40.8	51.1
16	36.0	40.4	50.8	25.0	25.0	35.2	39.7	39.7	48.9	36.7	36.7	47.1
20	33.5	38.0	48.6	25.0	25.0	34.9	37.8	37.7	47.0	34.8	34.8	45.2
25	30.9	35.5	46.0	24.3	24.3	35.3	35.8	35.8	45.1	32.8	32.8	43.3
31.25	28.2	32.8	43.4	23.6	23.6	34.8	33.9	33.9	43.2	30.9	30.9	41.3
62.5	18.4	23.2	34.6	21.5	21.5	31.8	27.9	27.8	37.2	24.9	24.9	35.2
100	10.3	18.0	27.3	20.1	20.1	30.1	23.8	23.8	33.2	20.8	20.8	31.1
155		6.3	19.4		18.8	28.4		19.9	29.3		16.9	27.2
200		0.5	13.9		18.0	27.3		11.7	27.1		10.7	25.0
250			8.6		17.3	26.1		9.8	25.1		8.8	23.1
300			3.8		16.8	25.1		8.2	23.7		7.2	21.5
350					16.3	24.0		6.9	22.5		5.9	20.3



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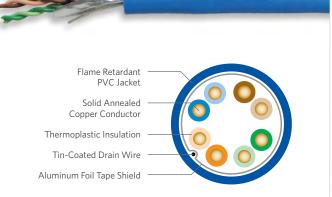
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Category 5e+ F/UTP (ScTP)

CMR/CMP



SPECIFICATIONS	
Pair Count	4
Conductor	Solid annealed copper
AWG (mm)	24 (0.51)
Insulation	CMR: Polyolefin CMP: FEP
Insulation Colors	Pair 1: ColorTip Light Blue, Blue Pair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, Brown
Shield	Aluminum foil tape
Drain Wire	24 AWG tinned copper
Jacket	CMR: Flame retardant (FR) PVC CMP: FR, low smoke PVC
Characteristic Impedance Ohms	100 ± 15
Nominal Velocity of Propagation %	CMR: 67 CMP: 70
Performance Compliance	UL 444 CSA C22.2 No. 214-08 UL 1666 NFPA 262 ANSI/TIA-568-C.2 ANSI/ICEA S-90-661-2012 Article 800, NEC (NFPA 70)
NRTL Programs	UL Verified CAT 5e UL, c(UL) Listed CMR UL, c(UL) Listed CMP
Sustainability	UL Certified EPD HPD Multi-Attribute Certification USGBC® Member ROHS-compliant/RoHS 2-compliant REACH-compliant

PRODUCT DESCRIPTION

FIRST MANUFACTURER IN THE INDUSTRY

Superior Essex offers Screen Twisted Pair (ScTP) shielded Category 5e+ cables in both plenum and riser versions. The cable has guaranteed performance out to 350 MHz and meets all applicable ANSI/TIA-568-C.2 requirements. The cable consists of four balanced 24 AWG copper pairs. The core is wrapped with an aluminum foil tape and has a tin coated drain wire. The tape wrapped core is jacketed with the appropriate flexible PVC jacket for plenum or riser applications.

APPLICATIONS

- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2
- ATM and token ring
- Applications requiring secure networks or protection from EMI/RFI

FEATURES

FEATURES	BENEFITS
UL Certified Environmental Product Declaration (EPD)	 Contributes toward 1 LEED point under the Material and Resources credit (MRc)
 Health Product Declaration[™] (HPD[™]) 	 Contributes toward 1 LEED point under the MRc
 Multi-Attribute Certification by GreenCircle Certified, LLC 	 Offers an overview of the sustainability of a product, its packaging and manufacturing
 Aluminum foil tape covers all 4-pair 	 Protects against EMI/RFI and provides greater security
Exceeds ANSI/TIA-568-C.2 for CAT 5e cable performance	• Assures compliance for all current networking applications (up to 1000BASE-T)
 Guaranteed performance to 350 MHz 	 Assures ample bandwidth headroom
 CableID[®] alpha numeric code printed every 2 feet 	 Allows both ends of a cable run to be easily identifiable without the need to separately label or tone the cable
 QuickCount[®] marking system in feet and meters 	 Provides remaining length of cable on reel
 ColorTip[®] circuit identification system 	 Easily identifiable conductor mates even in low-light environments
Color coded box labels	 Easily identifies jacket colors

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Listing	Part N	umber ¹	Nominal Diameter in (mm)		x. Weight : (kg/km)	Package	P	Packages per Pallet	
CMR	5F-2	20-x5	0.26 (6.6)	31	(46)	1,000' Plywoo	od reel	12	
СМР	P 5F-220-x8		0.25 (6.4)	30	30 (45)		od reel	12	
JACKET COLORS									
¹ Replace "x" with:	Blue = 2	Gray = 3	White = 4	Green = 5	Yellow = 6	Red = 9	Orange = D	Black = E	



		s @ 20°C Max B/100 m	timum		NEXT Minimum dB/100 m			ACR Minimum dB/100 m			XT Minimum B/100 m	
Frequency	TIA-568-C.2	Superior	Essex	TIA-568-C.2	Superior E	Essex	TIA-568-C.2	Superior I	Essex	TIA-568-C.2	Superior	Essex
MHz	Specified	Guaranteed	Typical	Specified	Guaranteed	Typical	Calculated	Guaranteed	Typical	Specified	Guaranteed	Typical
1	2.0	2.0	1.8	65.3	68.3	79.5	63.3	67.4	77.7	62.3	66.3	77.2
4	4.1	4.0	3.6	56.3	59.3	69.9	52.2	56.4	66.4	53.3	57.3	67.5
8	5.8	5.7	5.1	51.8	54.8	65.1	46.0	50.3	60.0	48.8	52.8	62.7
10	6.5	6.4	5.8	50.3	53.3	63.6	43.8	48.2	57.9	47.3	51.3	61.2
16	8.2	8.1	7.4	47.2	50.3	60.4	39.0	43.4	53.1	44.2	48.3	58.0
20	9.3	9.2	8.3	45.8	48.8	59.0	36.5	41.0	50.9	42.8	46.8	56.6
25	10.4	10.3	9.3	44.3	47.3	57.5	33.9	38.5	48.3	41.3	45.3	55.1
31.25	11.7	11.6	10.4	42.9	45.9	56.0	31.2	35.8	45.7	39.9	43.9	53.5
62.5	17.0	16.8	14.9	38.4	41.4	51.7	21.4	26.2	36.8	35.4	39.4	49.2
100	22.0	21.7	19.1	35.3	38.3	48.5	13.3	21.0	29.5	32.3	36.3	46.0
155		27.7	24.2		35.5	45.7		9.3	21.6		33.5	43.1
200		32.1	27.8		29.8	43.6		3.5	16.0		27.8	41.0
250		36.5	31.4		28.3	42.0			10.7		26.3	39.4
300		40.5	34.7		27.2	40.4			5.9		25.2	37.9
350		44.4	37.7		26.2	39.3			1.7		24.2	36.8

	PSACR Minimum dB/100 m			Return Loss Minimum dB/100 m				(T Minimum B/100 m		PSELFEXT Minimum dB/100 m		
Frequency	TIA-568-C.2	TIA-568-C.2 Superior Essex		TIA-568-C.2 Superior Essex		TIA-568-C.2 Superior Essex			TIA-568-C.2 Superior Essex		Essex	
MHz	Calculated	Guaranteed	Typical	Specified	Guaranteed	Typical	Specified	Guaranteed	Typical	Specified	Guaranteed	Typical
1	60.3	64.4	75.4	20.0	20.0	28.5	63.8	63.8	72.6	60.8	60.8	70.8
4	49.2	53.4	64.0	23.0	23.0	35.6	51.8	51.7	60.7	48.8	48.8	59.0
8	43.0	47.3	57.7	24.5	24.5	35.7	45.7	45.7	54.8	42.7	42.7	53.1
10	40.8	45.2	55.6	25.0	25.0	35.9	43.8	43.8	52.9	40.8	40.8	51.1
16	36.0	40.4	50.8	25.0	25.0	35.2	39.7	39.7	48.9	36.7	36.7	47.1
20	33.5	38.0	48.6	25.0	25.0	34.9	37.8	37.7	47.0	34.8	34.8	45.2
25	30.9	35.5	46.0	24.3	24.3	35.3	35.8	35.8	45.1	32.8	32.8	43.3
31.25	28.2	32.8	43.4	23.6	23.6	34.8	33.9	33.9	43.2	30.9	30.9	41.3
62.5	18.4	23.2	34.6	21.5	21.5	31.8	27.9	27.8	37.2	24.9	24.9	35.2
100	10.3	18.0	27.3	20.1	20.1	30.1	23.8	23.8	33.2	20.8	20.8	31.1
155		6.3	19.4		18.8	28.4		19.9	29.3		16.9	27.2
200		0.5	13.9		18.0	27.3		11.7	27.1		10.7	25.0
250			8.6		17.3	26.1		9.8	25.1		8.8	23.1
300			3.8		16.8	25.1		8.2	23.7		7.2	21.5
350					16.3	24.0		6.9	22.5		5.9	20.3

SUSTAINABILITY LEADERSHIP









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Solid Annealed Copper Conductor

Thermoplastic Insulation

Flame Retardant PVC Jacket

CMR/CMP

SPECIFICATIONS	
Pair Count	4
Conductor	Solid annealed copper
AWG (mm)	22 (0.51)
Insulation	Thermoplastic
Insulation Colors	Pair 1: ColorTip Light Blue, Blue Pair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, Brown
Jacket	CMR: Flame retardant (FR) PVC CMP: FR, low smoke PVC
Characteristic Impedance Ohms	100 ± 15
Nominal Velocity of Propagation %	CMR: 71 CMP: 74
Performance Compliance	UL 444 CSA C22.2 No. 214-08 UL 1666 NFPA 262 ANSI/TIA-568-C.2 ANSI/ICEA S-90-661-2012 Article 800, NEC (NFPA 70)
NRTL Programs	UL Verified CAT 5e UL, c(UL) Listed CMR

UL, c(UL) Listed CMP

PRODUCT DESCRIPTION

PowerWise[™] Category 5e+ cables provide the best performance and overall value for 4-Pair Power over Ethernet (4PPoE) applications requiring up to 100W of power and up to 1 Gigabit Ethernet performance. PowerWise CAT 5e+ cables are specifically designed to mitigate temperature build-up, offer exceptional energy efficiency and ensure performance (up to 1 Gigabit Ethernet) over the lifetime of your system.

PowerWise CAT 5e+ cable provides the performance benefits of a typical CAT 5E cable including a small diameter. Cable temperature increases are reduced and power efficiency is increased as a result of 22 gauge conductors. Plenum rated conductors are also 100% FEP insulated and ensure cable performance over the life of your system. PowerWise CAT 5e+ cables are the best solution to connect and power your 4PPoE applications compared to standard CAT 5e and 6 designs.

APPLICATIONS

- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) IEEE 802.3af .
- PoE+ IEEE 802.3at Type 1 and 2
- 4PPoE IEEE 802.3bt Type 3 and 4 draft D1.2
- ATM and token ring

FEATURES

•	Guaranteed 0.3 dB headroom for IL, ACR and PSACR	•	Performance assurance for exceptional overall channel performance
•	Tested 350 MHz	•	Assures ample bandwidth Headroom
•	Tested in most severe temperature conditions in bundle of 100 cables	•	AWG 22 insulated wire offers 88% power effiency and lowest temperature increase inside a bundle, the best of its class
•	BrakeBox [®] payout	•	Adjustable tension control on

BENEFITS

- CableID[®] alpha numeric code printed every 2 feet
- . QuickCount marking system in feet and meters
- ColorTip® circuit identification system

control system

Color coded box labels

- Adjustable tension control on reel prevents over spin and entangling of cable
- Allows both ends of a cable run to be easily identifiable without the need to separately label or tone the cable
- Provides remaining length of cable on reel
- Easily identifiable conductor mates even in low-light environments
- Easily identifies jacket colors

PART NUMBERS AND PHYSICAL CHARACTERISTICS

PERIOR

Listing	Part Number ¹	Nominal Diameter in (mm)	Approx. Weight Ibs/kft (kg/km)	Package	Packages per Pallet
CMR	PW52-H46-y5	0.23 (4.6)	28 (25)	1,000 ft BrakeBox	12
CMR	PW52-H72-y5	0.23 (4.6)	28 (25)	1,000 ft Plywood Reel	16
CMP	PW52-H46-y8	0.23 (4.8)	37 (28)	1,000 ft BrakeBox	12
СМР	PW52-H72-y8	0.23 (4.8)	37 (28)	1,000 ft Plywood Reel	16
JACKET COLORS					
¹ Replace "y" with:	Blue = 2	Gray = 3	White = 4	Green = 5 Yellow = 6	Red = 9



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ELECTRICAL	SPECIFICATION	S								
	Insertion I	Insertion Loss @ 20°C Maximum NEXT Minimum dB/100 m dB/100 m				1	ACR Minimum dB/100 m		PSNEXT Minimum dB/100 m	
Frequency	TIA-568-C.2	Superior	Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior	Essex	TIA-568-C.2	Superior Essex
MHz	Specified	Guaranteed	Typical	Specified	Typical	Calculated	Guaranteed	Typical	Specified	Typical
1	2	1.7	1.7	65.3	76.8	63.3	63.6	81.0	62.3	75.3
4	4.1	3.8	3.7	56.3	67.8	52.2	52.5	70.1	53.3	66.3
8	5.8	5.5	5.4	51.8	63.3	46.0	46.3	63.9	48.8	61.8
10	6.5	6.2	6.0	50.3	61.8	43.8	44.1	61.8	47.3	60.3
16	8.2	7.9	7.7	47.2	58.7	39.0	39.3	57.0	44.3	57.2
20	9.3	9.0	8.6	45.8	57.3	36.5	36.8	54.7	42.8	55.8
25	10.4	10.1	9.6	44.3	55.8	33.9	34.2	52.2	41.3	54.3
31.25	11.7	11.4	10.8	42.9	54.4	31.2	31.5	49.6	39.9	52.9
62.5	17	16.7	15.5	38.4	49.9	21.4	21.7	40.4	35.4	48.4
100	22	21.7	19.8	35.3	46.8	13.3	13.6	33.0	32.3	45.3
155			24.8		43.9			25.1		42.4
200			28.2		42.3			20.1		40.8
250			31.8		40.8			15.0		39.3
300			35		39.6			10.6		38.1
350			38.3		38.6			6.3		37.1

		PSACR Minimum dB/100 m			Return Loss Minimum dB/100 m		Minimum 00 m	PSELFEXT Minimum dB/100 m	
Frequency	TIA-568-C.2	Superior	Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex
MHz	Calculated	Guaranteed	Typical	Specified	Typical	Specified	Typical	Specified	Typical
1	60.3	60.6	78.3	20.0	33.0	63.8	74.6	60.8	69.3
4	49.2	49.5	67.4	23.0	36.0	51.8	62.6	48.8	57.3
8	43.0	43.3	61.2	24.5	37.5	45.7	56.5	42.7	51.2
10	40.8	41.1	59.1	25.0	38.0	43.8	54.6	40.8	49.3
16	36.1	36.4	54.3	25.0	38.0	39.7	50.5	36.7	45.2
20	33.5	33.8	52.0	25.0	38.0	37.8	48.6	34.8	43.3
25	30.9	31.2	49.5	24.3	37.3	35.8	46.6	32.8	41.3
31.25	28.2	28.5	46.9	23.6	36.6	33.9	44.7	30.9	39.4
62.5	18.4	18.7	37.7	21.5	34.5	27.9	38.7	24.9	33.4
100	10.3	10.6	30.3	20.1	33.1	23.8	34.6	20.8	29.3
155			22.4		31.8		30.8		25.5
200			17.4		31.0		28.6		23.3
250			12.3		30.3		26.6		21.3
300			7.9		29.8		25.1		19.8
350			3.6		29.3		23.7		18.4

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Rev 9/15 Ed 13.1



Solid Annealed

Rip Cord

Copper Conductor

Thermoplastic Insulation

Flame Retardant PVC Jacket

CMR/CMP

SPECIFICATION
Pair Count
Conductor
AWG (mm)
Insulation
Insulation Colors
Jacket
Characteristic Im Ohms
Nominal Velocity %

PRODUCT DESCRIPTION

FIRST MANUFACTURER IN THE INDUSTRY

Marathon LAN® Category 5e cable offers an exceptional value for jobs that require standards compliance at a cost-effective price. While Marathon LAN cable meets all of the ANSI/TIA-568-C.2 specifications, it also offers other features that make it easier to use, save on installation time and expense and ensure product quality during the installation. From the QuickCount® feature, which marks the exact cable remaining in the box, to the WideMouth payout design, which reduces tension on the wire as it is pulled during installation, Marathon LAN cable provides more overall value than any other CAT 5e product available today.

BENEFITS

.

APPLICATIONS

- 10BASE-T through 1000BASE-T Ethernet
- . Power over Ethernet (PoE) - IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2
- ATM and token ring

Pair Count	4	
Conductor	Solid annealed copper	FEATURES
AWG (mm)	24 (0.51)	UL Certified Environmental Product Declaration (EPD)
Insulation	Thermoplastic	
Insulation Colors	Pair 1: ColorTip Light Blue, Blue Pair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, Brown	 Health Product Declaration[™] (HPD[™]) Multi-Attribute Certification
Jacket	CMR: Flame retardant (FR) PVC CMP: FR, low smoke PVC	by GreenCircle Certified, LLC
Characteristic Impedance Ohms	100 ± 15	 Meets ANSI/TIA-568-C.2 specification
Nominal Velocity of Propagation %	CMR: 71 CMP: 74	Tested to 350 MHz
Performance Compliance	UL 444 CSA C22.2 No. 214-08 UL 1666 NFPA 262 ANSI/TIA-568-C.2 ANSI/ICEA S-90-661-2012 Article 800, NEC (NFPA 70)	 "WideMouth" POP™ box design CableID[®] alpha numeric code printed every 2 feet
NRTL Programs	UL or ETL Verified CAT 5e UL, c(UL) Listed CMR UL, c(UL) Listed CMP	QuickCount marking system
Sustainability	UL Certified EPD HPD Multi-Attribute Certification USGBC® Member RoHS-compliant/RoHS 2-compliant REACH-compliant	 in feet and meters ColorTip[®] circuit identification system Color coded box labels

packaging and manufacturing Provides cost-effective solution Assures ample bandwidth headroom

Contributes toward 1 LEED

 Contributes toward 1 LEED point under the MRc Offers an overview of the

point under the Material and Resources credit (MRc)

sustainability of a product, its

- Reduces tension on wire . to ensure proper electrical performance after installation
- Allows both ends of a cable run to be easily identifiable without the need to separately label or tone the cable
- Provides remaining length of cable on reel
- Easily identifiable conductor mates even in low-light environments
- Easily identifies jacket colors

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Listing	Part Number ¹	Nominal Diameter in (mm)	Approx. Weight Ibs/kft (kg/km)	Package
CMR	51-xxx-y5	0.18 (4.6)	17 (25)	use key
CMP	51-xxx-y8	0.19 (4.8)	19 (28)	use key

PACKAGING								
	150 ft Coil	200 ft Coil	250 ft Coil	300 ft Coil	1,000 ft POP Box	1,000 ft Reel-in-a-box	1,000 ft Plywood Reel	2,500 ft Plywood Reel
¹ Replace "xxx" with:	225	229	230	231	CMR: 240 CMP: 241	243	220	273
Packages per Pallet	240	120	144	120	45	45	36	16

JACKET COLORS										
¹ Replace "y" with:	Blue = 2	Gray = 3	White = 4	Green = 5	Yellow = 6	Purple = 7	Red = 9	Pink = C	Orange = D	Black = E



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LECTRICAL SP	ECIFICATIONS							
	Insertion Loss @ 20°C Maximum dB/100 m			NEXT Minimum dB/100 m		inimum 00 m	PSNEXT Minimum dB/100 m	
Frequency	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex
MHz	Specified	Typical	Specified	Typical	Calculated	Typical	Specified	Typical
1	2.0	1.8	65.3	76.8	63.3	81.0	62.3	75.3
4	4.1	3.7	56.3	67.8	52.2	70.1	53.3	66.3
8	5.8	5.4	51.8	63.3	46.0	63.9	48.8	61.8
10	6.5	6.0	50.3	61.8	43.8	61.8	47.3	60.3
16	8.2	7.7	47.2	58.7	39.0	57.0	44.3	57.2
20	9.3	8.6	45.8	57.3	36.5	54.7	42.8	55.8
25	10.4	9.6	44.3	55.8	33.9	52.2	41.3	54.3
31.25	11.7	10.8	42.9	54.4	31.2	49.6	39.9	52.9
62.5	17.0	15.5	38.4	49.9	21.4	40.4	35.4	48.4
100	22.0	19.8	35.3	46.8	13.3	33.0	32.3	45.3
155		24.8		43.9		25.1		42.4
200		28.2		42.3		20.1		40.8
250		31.8		40.8		15.0		39.3
300		35.0		39.6		10.6		38.1
350		38.3		38.6		6.3		37.1

PSACR M dB/1		Ainimum Return Loss Minimum D0 m dB/100 m			Minimum I00 m	PSELFEXT Minimum dB/100 m		
Frequency	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex
MHz	Calculated	Typical	Specified	Typical	Specified	Typical	Specified	Typical
1	60.3	78.3	20.0	33.0	63.8	74.6	60.8	69.3
4	49.2	67.4	23.0	36.0	51.8	62.6	48.8	57.3
8	43.0	61.2	24.5	37.5	45.7	56.5	42.7	51.2
10	40.8	59.1	25.0	38.0	43.8	54.6	40.8	49.3
16	36.1	54.3	25.0	38.0	39.7	50.5	36.7	45.2
20	33.5	52.0	25.0	38.0	37.8	48.6	34.8	43.3
25	30.9	49.5	24.3	37.3	35.8	46.6	32.8	41.3
31.25	28.2	46.9	23.6	36.6	33.9	44.7	30.9	39.4
62.5	18.4	37.7	21.5	34.5	27.9	38.7	24.9	33.4
100	10.3	30.3	20.1	33.1	23.8	34.6	20.8	29.3
155		22.4		31.8		30.8		25.5
200		17.4		31.0		28.6		23.3
250		12.3		30.3		26.6		21.3
300		7.9		29.8		25.1		19.8
350		3.6		29.3		23.7		18.4

SUSTAINABILITY LEADERSHIP







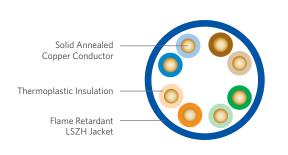


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Category 5e LSZH



SPECIFICATIONS	
Pair Count	4
Conductor	Solid annealed copper
AWG (mm)	24 (0.51)
Insulation	Polyolefin
Insulation Colors	Pair 1: ColorTip Light Blue, Blue Pair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, Brown
Jacket	Flame retardant LSZH
Characteristic Impedance Ohms	100 ± 15
Nominal Velocity of Propagation %	67
Performance Compliance	UL 444 CSA C22.2 No. 214-08 UL 1685 IEC 61156-5 IEC 60332-1 IEC 60134 IEC 60754 ANSI/TIA-568-C.2 ANSI/TIA/EIA-570-B Article 800, NEC (NFPA 70) RoHS-compliant/RoHS 2-compliant
NRTL Programs	UL, c(UL) Listed CM

PRODUCT DESCRIPTION

Superior Essex Category 5e LSZH CM cable is designed for applications requiring a Low Smoke Zero Halogen (LSZH) construction. CAT 5e compliance ensures this cable will support 1000BASE-T Gigabit Ethernet. This cable easily surpasses the Grade 2 requirements specified in the ANSI/TIA/EIA-570-B Residential Telecommunications standard.

APPLICATIONS

- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2
- ATM and token ring

FEATURES

Low Smoke Zero Halogen
 Meets IEC requirements

BENEFITS

- UL[®] Listed CM
- Meets ANSI/TIA-568-C.2
 specification
- QuickCount[®] marking system in feet and meters
- ColorTip[®] Circuit Identification System
- for toxicity, acidity and smoke
 UL listing allows for CM specific installations
- CAT 5e compliance
- Provides remaining length of cable on reel
- Easily identifiable conductor mates even in low light environments

PART NUMBERS AND PHYSICAL CHARACTERISTICS							
Listing	Part Number ¹	Nominal Diameter in (mm)	Approx. Weight Ibs/kft (kg/km)	Package	Packages per Pallet		
CM	51-240-xL	0.19 (4.8)	20 (29)	1,000' POP™ box	36		

JACKET COLORS		
¹ Replace "x" with:	Blue = 2	White = 4
UL is a registered trademark of UL	11C.	-





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PRODUCT DESCRIPTION

Superior Essex Category 5e CM cable is designed for residential LAN applications. CAT 5e compliance ensures this cable will support 1000BASE-T Gigabit Ethernet. This cable easily surpasses the Grade 2 requirements specified in the ANSI/TIA/EIA-570-B Residential Telecommunications standard.

APPLICATIONS

- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2
- ATM and token ring

FFATURES

TENTORES	DEILEITIS
 Meets ANSI/TIA-568-C.2 specification 	CAT 5e compliance
 CableID[®] alpha numeric code printed every 2 feet 	 Allows both ends of a cable run to be easily identifiable without

RENEEITS

- QuickCount[®] marking system in feet and meters
- ColorTip[®] Circuit Identification System

to be easily identifiable without the need to separately label or tone the cable • Provides remaining length

- of cable on reel
- Easily identifiable conductor mates even in low light environments

Solid Annealed Copper Conductor	
Thermoplastic Insulation	
Flame Retardant PVC Jacket	

SPECIFICATIONS				
Pair Count	4			
Conductor	Solid annealed copper			
AWG (mm)	24 (0.51)			
Insulation	Polyolefin			
Insulation Colors	Pair 1: ColorTip Light Blue, Blue Pair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, Brown			
Jacket	Flame retardant PVC			
Characteristic Impedance Ohms	100 ± 15			
Nominal Velocity of Propagation %	72			
Performance Compliance	UL® 444 CSA C22.2 No. 214-08 UL 1685 ANSI/TIA-568-C.2 ANSI/ICEA S-90-661-2012 ANSI/TIA/EIA-570-B Article 800, NEC (NFPA 70) RoHS-compliant/RoHS 2-compliant			
NRTL Programs	UL Verified CAT 5e UL, c(UL) Listed CM			

	ICAL CHARACTERISTIC				
Listing	Part Number ¹	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet
CM	51-240-xG	0.18 (4.6)	17 (25)	1,000' POP™ box	45

JACKET COLORS					
¹ Replace "x" with:	Blue = 2	Gray = 3	White = 4	Green = 5	Red = 9
III is a registered trademark of III	lic				

UL is a registered trademark of UL LLC

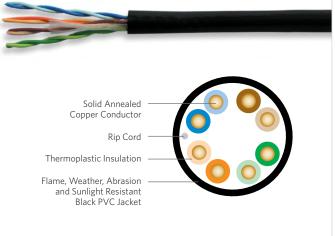
Rev 7/15

Ed 13.0





CMR/CMX Outdoor Sunlight Resistant



SPECIFICATIONS Pair Count

Fair Count	4				
Conductor	Solid annealed copper				
AWG (mm)	24 (0.51)				
Insulation	Polyolefin				
Insulation Colors	Pair 1: ColorTip Light Blue, Blue Pair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, Brown				
Ripcord	Non-wicking polyester yarn				
Jacket	Tough, flame retardant, weather, sunlight and abrasion resistant riser PVC				
Jacket Color	Black				
Characteristic Impedance Ohms	100 ± 15				
Nominal Velocity of Propagation %	70				
	UL 444				
Performance Compliance	CSA C22.2 No. 214-08 UL 1581 UL 1666 ANSI/TIA-568-C.2 ANSI/TIA/568-C.2 ANSI/TIA/EIA-570-B Article 800, NEC (NFPA 70) RoHS-compliant/RoHS 2-compliant				

4

ENVIRONMENTAL SPECIFICATIONS AND TESTS

-40°F to +167°F (-40°C to +75°C)
-40°F to +140°F (-40°C to +60°C)
Section 7.1: -4°F (-20°C) cold bend test Section 7.2: +14°F (-10°C) cold impact test Section 7.3: -40°F (-40°C) anvil test

PRODUCT DESCRIPTION

The Superior Essex Category 5e CMR/CMX Outdoor Sunlight Resistant cable is specifically designed for extreme sunlight and temperature applications. The level of UV-blocking compounds is the same as in traditional Outside Plant (OSP) cable products with the black color preventing damage from long-term UV sunlight exposure. Applications include Ethernet interconnect cable for Wi-Fi or retrofit cable installations that employ exterior runs having long-term outdoor exposure between two environmentally protected points. CMX Outdoor cables are designed to extend the run between the Network Interface Unit and the point of entry into the interior of a residence or a premise.

Superior Essex CAT 5e CMR/CMX Outdoor Sunlight Resistant black premises cable has been tested and listed as UL® 444 Sunlight Resistant compliant. This designation requires the cable to resist 720 hours of harsh UV and heat, which is more than twice the exposure time of the standard 300 hours required in the CMX Outdoor test. In addition, the CMR listing allows the cable to be used in riser spaces per UL 1666, eliminating the need to transition to fire resistant cables.

APPLICATIONS

- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2 .
- Wi-Fi IEEE 802.11a/b/g/n

BENEFITS

FEATURES Combines indoor/outdoor Provides cost-effective solution applications into one product with the added feature of Sunlight Resistant black color jacket Exceeds UL 444 720 hour sunlight resistant specification Meets ANSI/TIA-568-C.2 CAT 5e performance specification Moisture-resistant package Resists damp conditions that might weaken standard packages CableID[®] alpha numeric code Allows both ends of a cable run to be easily identifiable without printed every 2 feet the need to separately label or tone the cable QuickCount[®] marking system • Provides remaining length in feet and meters of cable on reel ColorTip® Circuit Easily identifiable conductor Identification System mates even in low-light environments • Facilitates easy opening Rip cord applied under jacket RoHS-compliant No heavy metals; and no toxic components Combined indoor/outdoor rating Reduces inventory by eliminating multiple cable types UL 444/UL 1581 Increased life in direct, Sunlight Resistant Listed long term sunlight



CAUTIONARY INFORMATION

- Do not use as a substitute for Outside Plant (OSP) cables.
- Do not use in conduit or direct burial which can flood. These cables are not designed for extended exposure to water.

PART NUMBERS AND PHYSIC	AL CHARACTERISTICS			
Part Number	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet
51-240-E1	0.21 (5.3)	21 (31)	1,000' POP™ box	36



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LECTRICAL SP	ECIFICATIONS							
		0 20°C Maximum 00 m		Лinimum 00 m		inimum 00 m		Minimum I00 m
Frequency	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex
MHz	Specified	Typical	Specified	Typical	Calculated	Typical	Specified	Typical
1	2.0	1.8	65.3	76.8	63.3	81.0	62.3	75.3
4	4.1	3.7	56.3	67.8	52.2	70.1	53.3	66.3
8	5.8	5.4	51.8	63.3	46.0	63.9	48.8	61.8
10	6.5	6.0	50.3	61.8	43.8	61.8	47.3	60.3
16	8.2	7.7	47.2	58.7	39.0	57.0	44.3	57.2
20	9.3	8.6	45.8	57.3	36.5	54.7	42.8	55.8
25	10.4	9.6	44.3	55.8	33.9	52.2	41.3	54.3
31.25	11.7	10.8	42.9	54.4	31.2	49.6	39.9	52.9
62.5	17.0	15.5	38.4	49.9	21.4	40.4	35.4	48.4
100	22.0	19.8	35.3	46.8	13.3	33.0	32.3	45.3
155		24.8		43.9		25.1		42.4
200		28.2		42.3		20.1		40.8
250		31.8		40.8		15.0		39.3
300		35.0		39.6		10.6		38.1
350		38.3		38.6		6.3		37.1

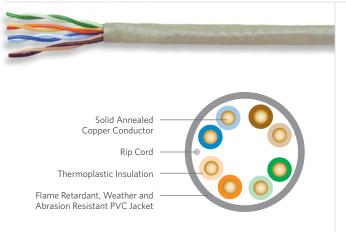
		Minimum IOO m		s Minimum 00 m		Minimum 00 m		Г Minimum IOO m
Frequency	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex
MHz	Calculated	Typical	Specified	Typical	Specified	Typical	Specified	Typical
1	60.3	78.3	20.0	33.0	63.8	74.6	60.8	69.3
4	49.2	67.4	23.0	36.0	51.8	62.6	48.8	57.3
8	43.0	61.2	24.5	37.5	45.7	56.5	42.7	51.2
10	40.8	59.1	25.0	38.0	43.8	54.6	40.8	49.3
16	36.1	54.3	25.0	38.0	39.7	50.5	36.7	45.2
20	33.5	52.0	25.0	38.0	37.8	48.6	34.8	43.3
25	30.9	49.5	24.3	37.3	35.8	46.6	32.8	41.3
31.25	28.2	46.9	23.6	36.6	33.9	44.7	30.9	39.4
62.5	18.4	37.7	21.5	34.5	27.9	38.7	24.9	33.4
100	10.3	30.3	20.1	33.1	23.8	34.6	20.8	29.3
155		22.4		31.8		30.8		25.5
200		17.4		31.0		28.6		23.3
250		12.3		30.3		26.6		21.3
300		7.9		29.8		25.1		19.8
350		3.6		29.3		23.7		18.4

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Category 5e CMR/CMX Outdoor



SPECIFICATIONS			
Pair Count	4		
Conductor	Solid annealed copper		
AWG (mm)	24 (0.51)		
Insulation	Polyolefin		
Insulation Colors	Pair 1: ColorTip Light Blue, Blue Pair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, Brown		
Ripcord	Non-wicking polyester yarn		
Jacket	Tough, flame retardant, weather and abrasion resistant PVC		
Characteristic Impedance Ohms	100 ± 15		
Nominal Velocity of Propagation %	70		
Performance Compliance	UL 444 CSA C22.2 No. 214-08 UL 1581 UL 1666 ANSI/TIA-568-C.2 ANSI/ICEA S-90-661-2012 ANSI/TIA/EIA-570-B Article 800, NEC (NFPA 70) RoHS-compliant/RoHS 2-compliant		
NRTL Programs	UL Verified CAT 5e UL, c(UL) Listed CMR UL, c(UL) Listed CMX Outdoor		

ENVIRONMENTAL SPECIFICATIONS AND TESTS				
Operation	-40°F to +167°F (-40°C to +75°C)			
Installation	-40°F to +140°F (-40°C to +60°C)			
ANSI/ICEA S-100-685-2009 Tested down to -67°F (-55°C)	Section 7.1: -4°F (-20°C) cold bend test Section 7.2: +14°F (-10°C) cold impact test Section 7.3: -40°F (-40°C) anvil test			

PRODUCT DESCRIPTION

The Superior Essex Category 5e CMR/CMX Outdoor cable is specifically designed for outdoor applications. UV-blocking compounds aid in protecting the cable from light. Applications include Ethernet interconnect cable for Wi-Fi or retrofit cable installations that employ exterior runs having long-term outdoor exposure between two environmentally protected points. CMX Outdoor cables are designed to extend the run between the Network Interface Unit and the point of entry into the interior of a residence or a premise.

Superior Essex CAT 5e CMR/CMX Outdoor premises cable has been tested and listed as UL® 444 Outdoor compliant. This designation requires the cable to resist 300 hours of UV and heat. In addition, the CMR listing allows the cable to be used in riser spaces per UL 1666, eliminating the need to transition to fire resistant cables.

APPLICATIONS

FEATURES

- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2
- ATM and token ring

•	Tough, weather resistant PVC jacket	•	Increases life of cable by providing low temperature handling and UV resistance; cable jacket resists cracking over time
•	Combined indoor/outdoor rating	•	Reduces inventory by eliminating multiple cable types
•	Meets ANSI/TIA-568-C.2 specification	•	CAT 5e compliance
•	Moisture-resistant package	•	Resists damp conditions that might weaken standard packages
•	CableID [®] alpha numeric code printed every 2 feet	•	Allows both ends of a cable run to be easily identifiable without the need to separately label or tone the cable
•	QuickCount [®] marking system in feet and meters	•	Provides remaining length of cable on reel
•	ColorTip® Circuit Identification System	•	Easily identifiable conductor mates even in low light environments

BENEFITS



CAUTIONARY INFORMATION

Do not use as a substitute for Outside Plant (OSP) cables. Do not use in conduit or direct burial which can flood. These cables are not designed for extended exposure to water.

Part Number ¹	Nominal Diameter in (mm)	Approx. Weight Ibs/kft (kg/km)	Package	Packages per Pallet
51-240-x1	0.21 (5.3)	21 (31)	1,000' POP™ box	36
T COLORS				

¹Replace "x" with: UL is a registered trademark of UL LLC.



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White = 4

ECTRICAL SPECIFICATIONS									
		0 20°C Maximum 00 m		NEXT Minimum dB/100 m		ACR Minimum dB/100 m		PSNEXT Minimum dB/100 m	
Frequency	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	
MHz	Specified	Typical	Specified	Typical	Calculated	Typical	Specified	Typical	
1	2.0	1.8	65.3	76.8	63.3	81.0	62.3	75.3	
4	4.1	3.7	56.3	67.8	52.2	70.1	53.3	66.3	
8	5.8	5.4	51.8	63.3	46.0	63.9	48.8	61.8	
10	6.5	6.0	50.3	61.8	43.8	61.8	47.3	60.3	
16	8.2	7.7	47.2	58.7	39.0	57.0	44.3	57.2	
20	9.3	8.6	45.8	57.3	36.5	54.7	42.8	55.8	
25	10.4	9.6	44.3	55.8	33.9	52.2	41.3	54.3	
31.25	11.7	10.8	42.9	54.4	31.2	49.6	39.9	52.9	
62.5	17.0	15.5	38.4	49.9	21.4	40.4	35.4	48.4	
100	22.0	19.8	35.3	46.8	13.3	33.0	32.3	45.3	
155		24.8		43.9		25.1		42.4	
200		28.2		42.3		20.1		40.8	
250		31.8		40.8		15.0		39.3	
300		35.0		39.6		10.6		38.1	
350		38.3		38.6		6.3		37.1	

		Vinimum 00 m	Return Los dB/1				PSELFEXT Minimum dB/100 m	
Frequency	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex
MHz	Calculated	Typical	Specified	Typical	Specified	Typical	Specified	Typical
1	60.3	78.3	20.0	33.0	63.8	74.6	60.8	69.3
4	49.2	67.4	23.0	36.0	51.8	62.6	48.8	57.3
8	43.0	61.2	24.5	37.5	45.7	56.5	42.7	51.2
10	40.8	59.1	25.0	38.0	43.8	54.6	40.8	49.3
16	36.1	54.3	25.0	38.0	39.7	50.5	36.7	45.2
20	33.5	52.0	25.0	38.0	37.8	48.6	34.8	43.3
25	30.9	49.5	24.3	37.3	35.8	46.6	32.8	41.3
31.25	28.2	46.9	23.6	36.6	33.9	44.7	30.9	39.4
62.5	18.4	37.7	21.5	34.5	27.9	38.7	24.9	33.4
100	10.3	30.3	20.1	33.1	23.8	34.6	20.8	29.3
155		22.4		31.8		30.8		25.5
200		17.4		31.0		28.6		23.3
250		12.3		30.3		26.6		21.3
300		7.9		29.8		25.1		19.8
350		3.6		29.3		23.7		18.4

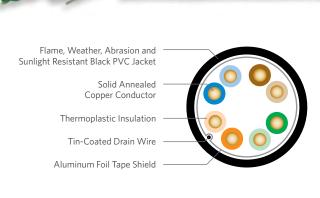
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Category 5e F/UTP (ScTP)

CMR/CMX Outdoor Sunlight Resistant



SPECIFICATIONS				
Pair Count	4			
Conductor	Solid annealed copper			
AWG (mm)	24 (0.51)			
Insulation	Polyolefin			
Insulation Colors	Pair 1: ColorTip Light Blue, Blue Pair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, Brown			
Shield	Aluminum foil tape			
Drain Wire	24 AWG tinned copper			
Jacket	Tough, flame retardant, sunlight, weather, and abrasion resistant, black, riser-rated PVC			
Characteristic Impedance Ohms	100 ± 15			
Nominal Velocity of Propagation %	67			
Performance Compliance	UL 444 CSA C22.2 No. 214-08 UL 1581 UL 1666 NFPA 262 ANSI/TIA-568-C.2 ANSI/TIA-568-C.2 ANSI/ICEA S-90-661-2012 Article 800, NEC (NFPA 70) RoHS-compliant/RoHS 2-compliant			
NRTL Programs	UL Verified CAT 5e UL, c(UL) Listed CMR UL, c(UL) Listed CMX Outdoor Sunlight Resistant			

ENVIRONMENTAL SPECIFICATIONS AND TESTS				
Operation	-40°F+167°F (-40°C to +75°C)			
Installation	-40°F to +140°F (-40°C to +60°C)			
ANSI/ICEA S-100-685-2009 Tested down to -67°F (-55°C)	Section 7.1: -4°F (-20°C) cold bend test Section 7.2: +14°F (-10°C) cold impact test Section 7.3: -40°F (-40°C) anvil test			

PRODUCT DESCRIPTION

The Superior Essex Category 5e F/UTP (ScTP) CMR/CMX Outdoor Sunlight Resistant cable is specifically designed for extreme sunlight and temperature applications that require shielding and a ground wire for Power-over-Ethernet (PoE) devices. The level of UV-blocking compounds is the same as in traditional Outside Plant (OSP) cable products with the black color preventing damage from long-term UV sunlight exposure. Applications include Ethernet interconnect cable for Wi-Fi or retrofit cable installations that employ exterior runs having long-term outdoor exposure between two environmentally protected points. CMX Outdoor cables are designed to extend the run between the Network Interface Unit and the point of entry into the interior of a residence or a premise.

Superior Essex CAT 5e F/UTP (ScTP) CMR/CMX Outdoor Sunlight Resistant black premises cable has been tested and listed as UL® 444 Sunlight Resistant compliant. This designation requires the cable to resist 720 hours of harsh UV and heat, which is more than twice the exposure time of the standard 300 hours required in the CMX Outdoor test. In addition, the CMR listing allows the cable to be used in riser spaces per UL 1666, eliminating the need to transition to fire resistant cables.

The cable is sweep-tested to 350 MHz and meets all applicable ANSI/ TIA-568-C.2 requirements. It supports 1000BASE-T and surpasses the Grade 2 requirements specified in the ANSI/TIA/EIA-570-B Residential Telecommunications Standard.

APPLICATIONS

- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2
- Wi-Fi IEEE 802.11a/b/g/n
- Applications requiring secure networks or protection from EMI/RFI

BENEFITS

Indoor/Outdoor Ethernet applications

FEATURES

UL 444/UL 1581 Sunlight Resistant Listed	 Increased life in direct, long term sunlight
 Combined CMR Riser Indoor and CMX Outdoor Sunlight Resistant Listing 	 Reduces inventory by eliminating multiple cab
 Meets ANSI/TIA-568-C.2 specification 	CAT 5e compliant
 Moisture-resistant package 	 Resists damp conditions

- CableID[®] alpha numeric code printed every 2 feet
- QuickCount[®] marking system in feet and meters
- ColorTip® Circuit Identification System
- RoHS-compliant

- ole types
- that might weaken standard packages
- Allows both ends of a cable run to be easily identifiable without the need to separately label or tone the cable
- Provides remaining length of cable on reel
- Easily identifiable conductor mates even in low-light environments
- Free of heavy metal and toxic components



CAUTIONARY INFORMATION

- Do not use as a substitute for Outside Plant (OSP) cables. Do not use in conduit or direct burial which can flood.
- These cables are not designed for extended exposure to water.

PART NUMBERS AND PHYSICAL CHARACTERISTICS					
Part Number ¹	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet	
5F-220-E1	0.26 (6.6)	29 (43)	1,000' Plywood reel	12	



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ELECTRICAL SPECIFICATIONS								
	Insertion Loss @ 20°C Maximum dB/100 m		NEXT Minimum dB/100 m		ACR Minimum dB/100 m		PSNEXT Minimum dB/100 m	
Frequency	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex
MHz	Specified	Typical	Specified	Typical	Calculated	Typical	Specified	Typical
1	2.0	1.8	65.3	79.4	63.3	77.7	62.3	77.2
4	4.1	3.6	56.3	69.9	52.2	66.4	53.3	67.4
8	5.8	5.1	51.8	65.1	46.0	60.0	48.8	62.7
10	6.5	5.8	50.3	63.6	43.8	57.9	47.3	61.2
16	8.2	7.4	47.3	60.4	39.1	53.1	44.3	58.0
20	9.3	8.2	45.8	59.0	36.5	50.9	42.8	56.6
25	10.4	9.3	44.3	57.5	33.9	48.3	41.3	55.1
31.25	11.7	10.5	42.9	56.0	31.2	45.7	39.9	53.5
62.5	17.0	14.9	38.4	51.7	21.4	36.8	35.4	49.2
100	22.0	19.2	35.3	48.5	13.3	29.5	32.3	46.0
155		24.2		45.7		21.6		43.1
200		27.8		43.6		16.0		41.0
250		31.4		42.0		10.7		39.4
300		34.7		40.4		5.9		37.7
350		37.8		39.3		1.7		36.8

	PSACR Minimum dB/100 m		Return Loss Minimum dB/100 m		ELFEXT Minimum dB/100 m		PSELFEXT Minimum dB/100 m	
Frequency	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex
MHz	Calculated	Typical	Specified	Typical	Specified	Typical	Specified	Typical
1	60.3	75.4	20.0	28.5	63.8	72.6	60.8	70.6
4	49.2	64.0	23.0	35.6	51.7	60.7	48.7	59.0
8	43.0	57.7	24.5	35.7	45.7	54.8	42.7	53.1
10	40.8	55.6	25.0	35.9	43.8	52.9	40.8	51.1
16	36.1	50.8	25.0	35.2	39.7	48.9	36.7	47.1
20	33.5	48.6	25.0	34.9	37.7	47.0	34.7	45.2
25	30.9	46.0	24.3	35.2	35.8	45.1	32.8	43.3
31.25	28.2	43.4	23.6	34.8	33.9	43.2	30.9	41.3
62.5	18.4	34.6	21.5	31.8	27.8	37.2	24.8	35.2
100	10.3	27.3	20.1	30.1	23.8	33.2	20.8	31.1
155		19.4		28.4		29.3		27.2
200		13.9		27.3		27.1		25.0
250		8.6		26.1		25.1		23.1
300		3.8		25.1		23.7		21.5
350				24.0		22.5		20.3

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Rev 7/15 Ed 13.0



CMR/CMX Outdoor

Flame Retardant, Weather and

Abrasion Resistant PVC Jacket

Solid Annealed

Copper Conductor

Thermoplastic Insulation

Aluminum Foil Tape Shield

Tin-Coated Drain Wire

SPECIFICATIONS	
Pair Count	4
Conductor	Solid annealed copper
AWG (mm)	24 (0.51)
Insulation	Polyolefin
Insulation Colors	Pair 1: ColorTip Light Blue, Blue Pair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, Brown
Shield	Aluminum foil tape
Drain Wire	24 AWG tinned copper
Jacket	Tough, flame retardant, UV, weather, and abrasion resistant PVC
Characteristic Impedance Ohms	100 ± 15
Nominal Velocity of Propagation %	67
Performance Compliance	UL 444 CSA C22.2 No. 214-08 UL 1666 NFPA 262 ANSI/TIA-568-C.2 ANSI/ICEA S-90-661-2012 Article 800, NEC (NFPA 70) RoHS-compliant/RoHS 2-compliant
NRTL Programs	UL Verified CAT 5e UL, c(UL) Listed CMR UL, c(UL) Listed CMX Outdoor

ENVIRONMENTAL SPECIFICATIONS AND TESTS		
Operation	-40°F to +167°F (-40°C to +75°C)	
Installation	-40°F to +140°F (-40°C to +60°C)	
ANSI/ICEA S-100-685-2009 Tested down to -67°F (-55°C)	Section 7.1: -4°F (-20°C) cold bend test Section 7.2: +14°F (-10°C) cold impact test Section 7.3: -40°F (-40°C) anvil test	

800.551.8948

SuperiorEssex.com

PRODUCT DESCRIPTION

The Superior Essex Category 5e F/UTP (ScTP) CMR/CMX Outdoor cable is specifically designed for outdoor applications that require shielding and a ground wire for Power-over-Ethernet (PoE) devices. UV-blocking compounds aid in protecting the cable from light. Applications include Ethernet interconnect cable for Wi-Fi or retrofit cable installations that employ exterior runs having long-term outdoor exposure between two environmentally protected points. CMX Outdoor cables are designed to extend the run between the Network Interface Unit and the point of entry into the interior of a residence or a premise.

Superior Essex CAT 5e F/UTP (ScTP) CMR/CMX Outdoor premises cable has been tested and listed as UL® 444 Outdoor compliant. This designation requires the cable to resist 300 hours of UV and heat. In addition, the CMR listing allows the cable to be used in riser spaces per UL 1666, eliminating the need to transition to fire resistant cables.

The cable is sweep-tested to 350 MHz and meets all applicable ANSI/TIA-568-C.2 requirements. It supports 1000BASE-T and surpasses the Grade 2 requirements specified in the ANSI/TIA/EIA-570-B Residential Telecommunications Standard.

APPLICATIONS

- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2
- ATM and token ring
- · Applications requiring secure networks or protection from EMI/RFI
- Indoor/Outdoor Ethernet Applications

FEATURES	BENEFITS
• Tough, weather resistant PVC jacket	 Increases life of cable by providing low temperature handling and sunlight resistance; cable jacket resists cracking over time
Combined indoor/outdoor rating	 Reduces inventory by eliminating multiple cable types
 Meets ANSI/TIA-568-C.2 	CAT 5e compliant
Moisture-resistant package	 Resists damp conditions that might weaken standard packages
CableID [®] alpha numeric code printed every 2 feet	 Allows both ends of a cable run to be easily identifiable without the need to separately label or tone the cable
 QuickCount[®] marking system in feet and meters 	 Provides remaining length of cable on reel
ColorTip [®] Circuit Identification System	 Easily identifiable conductor mates even in low-light environments
RoHS-compliant	Free of heavy metal and toxic components

CAUTIONARY INFORMATION

- Do not
 Do not
 - Do not use as a substitute for Outside Plant (OSP) cables.
 - Do not use in conduit or direct burial which can flood. These cables are not designed for extended exposure to water.

Part Number ¹	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet
5F-220-x1	0.26 (6.6)	29 (43)	1,000' Plywood reel	12
ACKET COLORS				
¹ Replace "x" with:	Beige = 1	Blue = 2	Gray = 3	White = 4



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		0 20°C Maximum 100 m		Лinimum IOO m		linimum IOO m		Minimum I00 m
Frequency	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex
MHz	Specified	Typical	Specified	Typical	Calculated	Typical	Specified	Typical
1	2.0	1.8	65.3	79.4	63.3	77.7	62.3	77.2
4	4.1	3.6	56.3	69.9	52.2	66.4	53.3	67.4
8	5.8	5.1	51.8	65.1	46.0	60.0	48.8	62.7
10	6.5	5.8	50.3	63.6	43.8	57.9	47.3	61.2
16	8.2	7.4	47.3	60.4	39.1	53.1	44.3	58.0
20	9.3	8.2	45.8	59.0	36.5	50.9	42.8	56.6
25	10.4	9.3	44.3	57.5	33.9	48.3	41.3	55.1
31.25	11.7	10.5	42.9	56.0	31.2	45.7	39.9	53.5
62.5	17.0	14.9	38.4	51.7	21.4	36.8	35.4	49.2
100	22.0	19.2	35.3	48.5	13.3	29.5	32.3	46.0
155		24.2		45.7		21.6		43.1
200		27.8		43.6		16.0		41.0
250		31.4		42.0		10.7		39.4
300		34.7		40.4		5.9		37.7
350		37.8		39.3		1.7		36.8

		Minimum IOO m		s Minimum 00 m		Minimum 00 m		Г Minimum IOO m
Frequency	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex
MHz	Calculated	Typical	Specified	Typical	Specified	Typical	Specified	Typical
1	60.3	75.4	20.0	28.5	63.8	72.6	60.8	70.6
4	49.2	64.0	23.0	35.6	51.7	60.7	48.7	59.0
8	43.0	57.7	24.5	35.7	45.7	54.8	42.7	53.1
10	40.8	55.6	25.0	35.9	43.8	52.9	40.8	51.1
16	36.1	50.8	25.0	35.2	39.7	48.9	36.7	47.1
20	33.5	48.6	25.0	34.9	37.7	47.0	34.7	45.2
25	30.9	46.0	24.3	35.2	35.8	45.1	32.8	43.3
31.25	28.2	43.4	23.6	34.8	33.9	43.2	30.9	41.3
62.5	18.4	34.6	21.5	31.8	27.8	37.2	24.8	35.2
100	10.3	27.3	20.1	30.1	23.8	33.2	20.8	31.1
155		19.4		28.4		29.3		27.2
200		13.9		27.3		27.1		25.0
250		8.6		26.1		25.1		23.1
300		3.8		25.1		23.7		21.5
350				24.0		22.5		20.3

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6-Pair	Category	5e
CMR	• •	

Solid Annealed Copper Conductor Cylindrical Separator Rip Cord Thermoplastic Insulation Flame Retardant **PVC** Jacket

Pair Count Conductor AWG (mm)

SPECIFICATIONS

Insulation	Polyolefin
Separator	Round filler
Jacket	Flame retardant PVC
Characteristic Impedance Ohms	100 ± 15
Nominal Velocity of Propagation %	71
Performance Compliance	UL® 444 CSA C22.2 No. 214-08 UL 1666 ANSI/TIA-568-C.2 ANSI/ICEA S-90-661-2012 Article 800, NEC (NFPA 70) RoHS-compliant/RoHS 2-compliant

6

24 (0.51)

Solid annealed copper

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Listing	Part Number ¹	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet
CMR	51-347-x5	0.26 (6.6)	32 (48)	1,000' Reel-in-a-Box	27
CMR	51-372-x5	0.26 (6.6)	32 (48)	1,000' Plywood reel	16

JACKET COLORS			
¹ Replace "x" with:	Blue = 2		
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PRODUCT DESCRIPTION

6-pair UTP cable, with Category 5e (ANSI/TIA-568-C.2) performance, is the solution to a growing number of special installation needs. More customers are demanding two additional pairs above the standard 4-pair cable for high-bandwidth applications. Two additional pairs provide the flexibility for utility metering and other telemetry needs without the expense of adding a separate cable and without additional space. The Superior Essex 6-pair CAT 5e cable delivers the performance expected, while offering the many features and user advantages of all our high performance premises products.

APPLICATIONS

- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2

ATM and token ring

FEATURES

• Two additional pairs in excess of • Eliminates expense of additional cable when 6-pair the standard 4-pair construction are required, reduces cabling space requirements; speeds installation time • ANSI/TIA-568-C.2 compliance • Any of the 6-pair can be used for CAT 5e applications CableID[®] alpha numeric code • Allows both ends of a cable run printed every 2 feet to be easily identifiable without the need to separately label or tone the cable QuickCount[®] marking system Eliminates guesswork of footage on reel and reduces scrap in feet and meters Warrantied with all leading

BENEFITS

- connectivity manufacturers
- Offers flexibility in selection of connectivity solutions





25-Pair Power Sum Category 5e

CMR/CMP

25-Pair Power Sum Category 5e UTP cables are designed to provide support for both backbone and horizontal applications. These applications include inter-closet backbone links, equipment cabling between cross-connect and hub equipment and zone distribution horizontal cabling between wiring closets and multiple work area transition points. The cable is available in CMP and CMR ratings and is UL® verified to meet all requirements of ANSI/TIA-568-C.2.

APPLICATIONS

- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2
- ATM and token ring

FEATURES

Small outside diameter

- Vibrant insulation colors
- Handles tight installationsEasier identification of conductors
- Flexible jacket materialMarked in feet and meters
- Ease of use during installationDual length marking complies

BENEFITS

with government, military and international requirements

Solid Annealed Copper Conductor
Cylindrical Separator
Rip Cord
Cylindrical Separator
Thermoplastic Insulation
Flame Retardant PVC Jacket

SPECIFICATIONS	
Pair Count	25
Conductor	Solid annealed copper
AWG (mm)	24 (0.51)
Insulation	CMR: Thermoplastic CMP: FEP
Separator	Cylindrical
Jacket	CMR: White, flame retardant PVC CMP: White, fluoropolymer
Characteristic Impedance Ohms	100 ± 15
Nominal Velocity of Propagation %	CMR: 69 CMP: 73
	UL 444 CSA C22.2 No. 214-08 UL 1666
Performance Compliance	NFPA 262 ANSI/TIA-568-C.2 ANSI/ICEA S-90-661-2012 Article 800, NEC (NFPA 70) RoHS-compliant/RoHS 2-compliant
Performance Compliance NRTL Programs	ANSI/TIA-568-C.2 ANSI/ICEA S-90-661-2012 Article 800, NEC (NFPA 70)

PART NUMBERS AND PHYSICAL CHARACTERISTICS						
Listing Part Number ¹		Nominal Diameter in (mm)	······································		Packages per Pallet	
CMR	51-478-45	0.57 (14.5)	144 (214)	1,000' Plywood reel	4	
CMP	51-478-48	0.48 (12.2)	148 (220)	1,000' Plywood reel	4	

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25-Pair Category 5e Indoor/Outdoor

Black, Low Smoke Zero Halogen,

SPECIFICATIONS	
Pair Count	25
Conductor	Solid annealed copper
AWG (mm)	24 (0.51)
Insulation	Thermoplastic
Separators	Cylindrical, flame retardant thermoplastic
Core Wrap	PET Tape
Jacket	Black, CM rated, non-halogen OSP
Input Impedance Ohms Guaranteed @ 1-100 MHz	100 ± 15
Delay Skew ns/100 m	Maximum: 45 Typical: 30
Nominal Velocity of Propagation %	69
DC Resistance Ohms/100 m	Maximum: 9.38 Typical: 9.0
Resistance Unbalance %	Maximum: 5.0 Typical: 0.7

UL® 444

CSA C22.2 No. 214-08 ANSI/TIA-568-C.2

UL, c(UL) Listed CM

ANSI/ICEA S-90-661-2012 Article 800, NEC (NFPA 70) RoHS-compliant/RoHS 2-compliant

PET Tape Core Wrap

Cylindrical Separator

Copper Conductor

Cylindrical Separator

OSP Grade Jacket

Thermoplastic Insulation

Solid Annealed

Rip Cord

PRODUCT DESCRIPTION

With its CM fire rating and UV resistant black jacket, this 25-pair, 24 gauge, Category 5e tight twisted copper conductor cable can be installed in both premises and outside plant (OSP) environments. The CAT 5e tight twist lays provide superior crosstalk performance, supporting digital subscriber line (xDSL) and IPTV broadband technologies in both the OSP pedestal and customer premises. In addition, the cable jacket is fungus resistant which is important in OSP pedestal environments. The cable meets or exceeds ANSI/TIA-568-C.2 for CAT 5e backbone cables and is able to support up to 1000BASE-T Ethernet technologies.

APPLICATIONS

FEATURES

grade

- ADSL, VDSL, VDSL+ and VDSL+2
- 10BASE-T through 1000BASE-T Ethernet .
- . Power over Ethernet (PoE) - IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2
- . ATM and token ring

BENEFITS

	Small outside diameter	•	Handles tight installations
	Vibrant insulation colors	•	Easy identification of conductors
•	Black, CM rated, non-halogen, OSP grade jacket material	•	Provides full sunlight resistance and fire protection in a flexible jacket
•	Fungus resistance	•	Non-nutritive to fungus and ideal for installation in humid environments
•	Compliant to ANSI/TIA-568-C.2 for CAT 5e	•	Capable of 1000BASE-T
•	Specially designed tight twist lays	•	Provides superior Alien Crosstalk performance for xDSL applications
•	Low temperature bend performance	•	Allows installation at -20°C temperatures

Package 1,000' Plywood reel

Ρ	ART NUMBERS AND PHYSICAL CHARACTERISTICS					
	Part Number	Nominal Diameter in (mm)	Approx. Weight Ibs/kft (kg/km)			
	51-499-EL	0.59 (15)	148 (221)			

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Performance Compliance

NRTL Programs





Interlock Armored

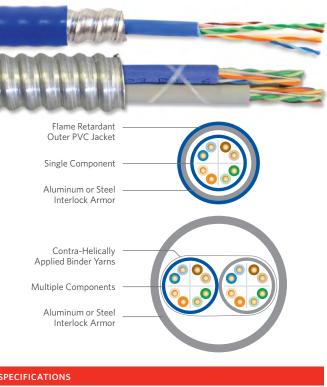
Premises Copper CMR

PRODUCT DESCRIPTION

Interlock Armored Category 6, Category 5e, Category 3 and/or RG-6 Quad Coax Riser cables provide significant mechanical protection. Interlock armored cables with two or more components of the same type can have either different colored components or uniquely labeled components with the same color. Multiple cables can be constructed in either aluminum or steel interlock armored; and the final cable is available in bare metal or with an overall jacket. Each component cable is tested after interlock armoring to ensure that it meets all applicable industry requirements. Cable configurations that include optical fiber distribution cables are also available.

FEATURES	BENEFITS
 Aluminum or steel interlock armored 	 Protects against mechanical stresses
	 Protects against EMI/RFI for reliable performance
	 Provides additional fire protection over riser rating
	 Installs faster and easier than EMT conduit and conventional wire
Category components meets ANSI/TIA-568-C.2 for CAT 3, CAT 5e and CAT 6	 Supports applications up to 1000BASE-T

- CMR rated components
- Maintains the fire rating with interlock armored removed



SPECIFICATIONS	
Overall Cable Configuration	Single to multiple component riser cables surrounded by aluminum or steel interlock armored
Armor	Interlocked aluminum or interlocked steel
Armor Jacket Options	Non-jacketed or jacketed (matches component color)
Armor/Component Jacket	Riser grade PVC
Component Fire Listings	UL® 1666, UL CMR, c(UL) CMR
Performance Compliance	UL 1569 UL 444 CSA C22.2 No. 214-08 ANSI/TIA-568-C.2 ANSI/ICEA S-90-661-2012 Article 800, NEC (NFPA 70) RoHS-compliant/RoHS 2-compliant
NRTL Programs	UL, c(UL) Listed CMR

PART NUMBERS AND PHYSICAL CHARACTERISTICS

			Number of	Nominal Diameter	Approx. Weight	
Part Number ¹	Configuration	Component	Components	in (mm)	lbs/kft (kg/km)	Package
K4-199-xA	Aluminum interlock armored, no outer jacket	4-pair CAT 6	1	0.49 (12.5)	67 (100)	1,000' Wood reel
L4-199-xA	Aluminum interlock armored, with outer jacket *	4-pair CAT 6	1	0.55 (14.0)	104 (155)	1,000' Wood reel
K4-299-yA	Aluminum interlock armored, no outer jacket	4-pair CAT 6	2	0.80 (20.2)	117 (174)	1,000' Wood reel
L4-299-yA	Aluminum interlock armored, with outer $jacket^\star$	4-pair CAT 6	2	0.87 (22.2)	196 (292)	1,000' Wood reel
K2-199-x5	Aluminum interlock armored, no outer jacket	4-pair CAT 5e	1	0.44 (11.1)	55 (82)	1,000' Wood reel
L2-199-x5	Aluminum interlock armored, with outer jacket *	4-pair CAT 5e	1	0.50 (12.6)	88 (132)	1,000' Wood reel
K2-299-y5	Aluminum interlock armored, no outer jacket	4-pair CAT 5e	2	0.80 (20.2)	105 (156)	1,000' Wood reel
L2-299-y5	Aluminum interlock armored, with outer $jacket^\star$	4-pair CAT 5e	2	0.88 (22.2)	184 (274)	1,000' Wood reel
KC-919-x5	Aluminum interlock armored, no outer jacket	RG-6 Quad**	1	0.53 (13.5)	73 (109)	1,000' Wood ree
K8-A99-33	Aluminum interlock armored, no outer jacket	25-pair CAT 3	1	0.79 (20.2)	159 (237)	1,000' Wood ree

*For single unit cables, the outer jacket color matches the internal component jacket color. For multi-unit cables, the outer jacket standard color is blue. Additional cable combinations are available. **Coaxial available with component jacket color in black or white

SINGLE COMPONEN	T JACKET COLOR	S							
¹ Replace "x" with:	Blue = 2	Gray = 3	White = 4	Green = 5	Yellow = 6	Purple = 7	Red = 9	Orange = D	Black = E
DUAL COMPONENT	JACKET COLORS								
¹ Replace "y"	with "S"	¹ Repla	ce "y" with "T"						
Blue	White	Blue	Gr	ay					

Other color sequences are available upon request. UL is a registered trademark of UL LLC.

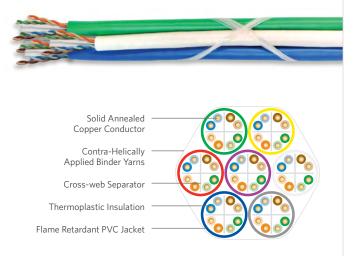
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Bundled Category 6



SPECIFICATIONS	
Conductor	Solid annealed copper
AWG (mm)	23 (0.57)
Insulation	CMR: Thermoplastic CMP: FEP
Insulation Colors	Pair 1: ColorTip Light Blue, Blue Pair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, Brown
Separator	Cross-web
Jacket	CMR: Flame retardant (FR) PVC CMP: FR, low smoke PVC
Characteristic Impedance Ohms	100 ± 15
Nominal Velocity of Propagation %	CMR: 70 CMP: 74
Component Performance Compliance	UL® 444 CSA C22.2 No. 214-08 UL 1666 NFPA 262 ANSI/TIA-568-C.2 Article 800, NEC (NFPA 70) RoHS-compliant/RoHS 2-compliant
Component NRTL Programs	UL, c(UL) Listed CMR UL, c(UL) Listed CMP

PRODUCT DESCRIPTION

Superior Essex Bundled UTP cables reduce the amount of cable pulls in an installation and simplify cable management. These bundled cables consist of multiple Category 6 compliant cables bundled together and bound by contra-helically applied binder yarns. The binder configuration allows for easy breakout and offers greater flexibility compared to an overjacket design. Contrasting jacket colors allow for easy identification.

APPLICATIONS

- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2
- ATM and token ring

FEATURES

- Binding of multiple UTP cables
- Multiple construction options
- (2 to 7 cable sub-units)
- Warrantied with numerous connectivity manufacturers
- ColorTip[®] circuit identification system
- Flexible, dual binder yarns, contra-helically applied

Reduces installation time

BENEFITS

- Improves cable management
- · Sizes available for small and large projects
- · Easily identifiable conductor mates, even in low light environment
- · Maintains maximum flexibility and allows for easy breakout

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Cable Sub-units	Jacket Colors*	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Reel Size F x T x D (in)
56-202-2A	2	Blue, Gray	0.44 (11.2)	48 (106)	2,500 (762)	30 x 18 x 12
56-202-3A	3	Blue, Gray, White	0.48 (12.1)	72 (159)	2,500 (762)	30 x 18 x 12
56-202-4A	4	Blue, Gray, White, Yellow	0.53 (13.6)	97 (213)	2,500 (762)	30 x 18 x 12
56-201-5A	5	Blue, Gray, White, Yellow, Green	0.61 (15.5)	121 (266)	2,500 (762)	30 x 18 x 12
56-201-6A	6	Blue, Gray, White, Yellow, Green, Red	0.70 (17.8)	145 (319)	2,500 (762)	30 x 18 x 12
56-201-7A	7	Blue, Gray, White, Yellow, Green, Red, Purple	0.70 (17.8)	176 (387)	1,000 (305)	30 x 18 x 12
56-202-2B	2	Blue, Gray	0.48 (12.1)	57 (126)	2,500 (762)	30 x 18 x 12
56-202-3B	3	Blue, Gray, White	0.51 (13.0)	86 (189)	2,500 (762)	30 x 18 x 12
56-202-4B	4	Blue, Gray, White, Yellow	0.57 (14.6)	115 (252)	2,500 (762)	30 x 18 x 12
56-201-5B	5	Blue, Gray, White, Yellow, Green	0.64 (16.3)	143 (315)	2,500 (762)	30 x 18 x 12
56-201-6B	6	Blue, Gray, White, Yellow, Green, Red	0.71 (18.1)	172 (378)	2,500 (762)	30 x 18 x 12
56-201-7B	7	Blue, Gray, White, Yellow, Green, Red, Purple	0.71 (18.1)	201 (441)	1,000 (305)	30 x 18 x 12
	56-202-2A 56-202-3A 56-202-4A 56-201-5A 56-201-6A 56-202-2B 56-202-3B 56-202-4B 56-202-4B 56-201-5B 56-201-6B	56-202-2A 2 56-202-3A 3 56-202-4A 4 56-201-5A 5 56-201-6A 6 56-201-7A 7 56-202-2B 2 56-202-3B 3 56-202-4B 4 56-202-6B 5 56-202-6B 6	56-202-2A2Blue, Gray56-202-3A3Blue, Gray, White56-202-4A4Blue, Gray, White, Yellow56-201-5A5Blue, Gray, White, Yellow, Green56-201-6A6Blue, Gray, White, Yellow, Green, Red56-201-7A7Blue, Gray, White, Yellow, Green, Red, Purple56-202-2B2Blue, Gray56-202-3B3Blue, Gray, White56-202-4B4Blue, Gray, White, Yellow56-201-5B5Blue, Gray, White, Yellow, Green56-201-6B6Blue, Gray, White, Yellow, Green, Red	Part Number Cable Sub-units Jacket Colors* in (mm) 56-202-2A 2 Blue, Gray 0.44 (11.2) 56-202-3A 3 Blue, Gray, White 0.48 (12.1) 56-202-4A 4 Blue, Gray, White, Yellow 0.53 (13.6) 56-201-5A 5 Blue, Gray, White, Yellow, Green 0.61 (15.5) 56-201-5A 6 Blue, Gray, White, Yellow, Green, Red 0.70 (17.8) 56-201-5A 7 Blue, Gray, White, Yellow, Green, Red, Purple 0.70 (17.8) 56-201-7A 7 Blue, Gray, White, Yellow, Green, Red, Purple 0.70 (17.8) 56-202-2B 2 Blue, Gray, White, Yellow, Green, Red, Purple 0.51 (13.0) 56-202-3B 3 Blue, Gray, White, Yellow 0.51 (13.0) 56-202-4B 4 Blue, Gray, White, Yellow, Green 0.57 (14.6) 56-201-5B 5 Blue, Gray, White, Yellow, Green 0.64 (16.3) 56-201-5B 6 Blue, Gray, White, Yellow, Green, Red 0.71 (18.1)	Part Number Cable Sub-units Jacket Colors* in (mm) Jbs/kft (kg/km) 56-202-2A 2 Blue, Gray 0.44 (11.2) 48 (106) 56-202-3A 3 Blue, Gray, White 0.48 (12.1) 72 (159) 56-202-4A 4 Blue, Gray, White, Yellow 0.53 (13.6) 97 (213) 56-201-5A 5 Blue, Gray, White, Yellow, Green 0.61 (15.5) 121 (266) 56-201-5A 6 Blue, Gray, White, Yellow, Green, Red 0.70 (17.8) 145 (319) 56-201-5A 7 Blue, Gray, White, Yellow, Green, Red 0.70 (17.8) 176 (387) 56-201-5A 7 Blue, Gray, White, Yellow, Green, Red, Purple 0.70 (17.8) 176 (387) 56-202-2B 2 Blue, Gray, White, Yellow 0.48 (12.1) 57 (126) 56-202-3B 3 Blue, Gray, White, Yellow 0.51 (13.0) 86 (189) 56-202-4B 4 Blue, Gray, White, Yellow, Green 0.57 (14.6) 115 (252) 56-201-5B 5 Blue, Gray, White, Yellow, Green, Red 0.64 (16.3) 143 (315) 56-201	Part Number Cable Sub-units Jacket Colors* in (mm) Ibs/kft (kg/km) ft (m) 56-202-2A 2 Blue, Gray 0.44 (11.2) 48 (106) 2,500 (762) 56-202-3A 3 Blue, Gray, White 0.48 (12.1) 72 (159) 2,500 (762) 56-202-4A 4 Blue, Gray, White, Yellow 0.53 (13.6) 97 (213) 2,500 (762) 56-201-5A 5 Blue, Gray, White, Yellow, Green 0.61 (15.5) 121 (266) 2,500 (762) 56-201-5A 6 Blue, Gray, White, Yellow, Green, Red 0.70 (17.8) 145 (319) 2,500 (762) 56-201-7A 7 Blue, Gray, White, Yellow, Green, Red, Purple 0.70 (17.8) 176 (387) 1,000 (305) 56-202-2B 2 Blue, Gray, White, Yellow, Green, Red, Purple 0.70 (17.8) 176 (387) 1,000 (305) 56-202-2B 3 Blue, Gray, White, Yellow, Green 0.51 (13.0) 86 (189) 2,500 (762) 56-202-3B 3 Blue, Gray, White, Yellow, Green 0.64 (16.3) 115 (252) 2,500 (762) 56-202-4B 4 <td< td=""></td<>

*Other jacket color combinations available.

JACKET COLORS						
Blue	Gray	White	Yellow	Green	Red	Purple

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EX.



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PREMISES CABLE

Bundled Category 5e

PRODUCT DESCRIPTION

Superior Essex Bundled UTP cables reduce the amount of cable pulls in an installation and simplify cable management. These bundled cables consist of multiple Category 5e compliant cables bundled together and bound by contra-helically applied binder yarns. The binder configuration allows for easy breakout and offers greater flexibility compared to a composite overjacket design. Contrasting jacket colors allow easy identification.

APPLICATIONS

- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2
- ATM and token ring

FEATURES

BENEFITS • Reduces installation time

- Binding of multiple UTP cables
- Multiple construction options (2 to 7 cable sub-units)
- Warrantied with numerous connectivity manufacturers
- ColorTip[®] circuit identification system
- Flexible, dual binder yarns, contra-helically applied
- Improves cable managementSizes available for small
- and large projects
 Easily identifiable conductor mates, even in low light environment
- Maintains maximum flexibility and allows for easy breakout

X	
Solid Annealed Copper Conductor	
Contra-Helically Applied Binder Yarns	
Flame Retardant PVC Jacket	

SPECIFICATIONS	
Conductor	Solid annealed copper
AWG (mm)	24 (0.51)
Insulation	Thermoplastic
Insulation Colors	Pair 1: ColorTip Light Blue, Blue Pair 2: ColorTip Light Orange, Orange Pair 3: ColorTip Light Green, Green Pair 4: ColorTip Light Brown, Brown
Jacket	CMR: Flame retardant (FR) PVC CMP: FR, low smoke PVC
Characteristic Impedance Ohms	100 ± 15
Nominal Velocity of Propagation %	CMR: 70 CMP: 73
Component Performance Compliance	UL® 444 CSA C22.2 No. 214-08 UL 1666 NFPA 262 ANSI/TIA-568-C.2 ANSI/ICEA S-90-661-2012 Article 800, NEC (NFPA 70) RoHS-compliant/RoHS 2-compliant
Component NRTL Programs	UL, c(UL) Listed CMP UL, c(UL) Listed CMR

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Listing	Part Number	Cable Sub-units	Jacket Colors*	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Reel Size F x T x D (in)
CMR	56-202-25	2	Blue, Gray	0.38 (9.7)	38 (083)	2,500 (762)	30 x 18 x 12
CMR	56-202-35	3	Blue, Gray, White	0.41 (10.4)	57 (125)	2,500 (762)	30 x 18 x 12
CMR	56-202-45	4	Blue, Gray, White, Yellow	0.46 (11.7)	76 (167)	2,500 (762)	30 x 18 x 12
CMR	56-201-55	5	Blue, Gray, White, Yellow, Green	0.51 (13.0)	95 (208)	2,500 (762)	30 x 18 x 12
CMR	56-201-65	6	Blue, Gray, White, Yellow, Green, Red	0.56 (14.2)	114 (250)	2,500 (762)	30 x 18 x 12
CMR	56-201-75	7	Blue, Gray, White, Yellow, Green, Red, Purple	0.56 (14.2)	133 (292)	1,000 (305)	30 x 18 x 12
CMP	56-202-28	2	Blue, Gray	0.35 (8.9)	39 (085)	2,500 (762)	30 x 18 x 12
CMP	56-202-38	3	Blue, Gray, White	0.38 (9.6)	58 (127)	2,500 (762)	30 x 18 x 12
CMP	56-202-48	4	Blue, Gray, White, Yellow	0.42 (10.8)	77 (170)	2,500 (762)	30 x 18 x 12
CMP	56-201-58	5	Blue, Gray, White, Yellow, Green	0.48 (12.1)	96 (212)	2,500 (762)	30 x 18 x 12
CMP	56-201-68	6	Blue, Gray, White, Yellow, Green, Red	0.53 (13.4)	116 (254)	2,500 (762)	30 x 18 x 12
CMP	56-201-78	7	Blue, Gray, White, Yellow, Green, Red, Purple	0.53 (13.4)	135 (297)	1,000 (305)	30 x 18 x 12

*Other jacket color combinations available.

JACKET COLORS						
Blue	Gray	White	Yellow	Green	Red	Purple
III is a registered trademark o	fuluc	•				

UL is a registered trademark of UL LLC.

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OSP Broadband BBD



Aluminum Interlock Armor with Sunlight and Weather Resistant Polyethylene Outer Jacket (optional)

- Solid Annealed Copper Conductor
- Cross-web Separator (CAT 6 only)

Pair Count 4 Conductor Solid annealed copper Insulation Polyolefin Separator CAT 6: Polyolefin cross-web CAT 5e: none Jacket Black, sunlight and weather resistant polyethylene Optional Outer Armor Interlocked aluminum armor covered with black, sunlight and weather resistant polyethylene jacket Characteristic Impedance Ohms 100 ± 15 Nominal Velocity of Propagation % CAT 6A/6: 68 CAT 5e: 65 Performance Compliance ANSI/TIA-568-C.2 ANSI/ICEA S-107-704-2012 RoH5-compliant/ROHS 2-compliant REACH-compliant/ROHS 2-compliant	SPECIFICATIONS	
Insulation Polyolefin Separator CAT 6: Polyolefin cross-web CAT 5e: none Jacket Black, sunlight and weather resistant polyethylene Optional Outer Armor Interlocked aluminum armor covered with black, sunlight and weather resistant polyethylene jacket Characteristic Impedance Ohms 100 ± 15 Nominal Velocity of Propagation % CAT 6A/6: 68 CAT 5e: 65 Performance Compliance ANSI/TIA-568-C.2 ANSI/TIA-568-C.2 ANSI/TIA-568-C.2 ANSI/TIA-568-C.2	Pair Count	4
Separator CAT 6: Polyolefin cross-web CAT 5e: none Jacket Black, sunlight and weather resistant polyethylene Optional Outer Armor Interlocked aluminum armor covered with black, sunlight and weather resistant polyethylene jacket Characteristic Impedance Ohms 100 ± 15 Nominal Velocity of Propagation % CAT 6A/6: 68 CAT 5e: 65 Performance Compliance ANSI/TIA-568-C.2 ANSI/TIA-568-C.2 ANSI/CEA S-107-704-2012 RoHS-compliant/RoHS 2-compliant	Conductor	Solid annealed copper
Separator CAT 5e: none Jacket Black, sunlight and weather resistant polyethylene Optional Outer Armor Interlocked aluminum armor covered with black, sunlight and weather resistant polyethylene jacket Characteristic Impedance Ohms 100 ± 15 Nominal Velocity of Propagation % CAT 6A/6: 68 CAT 5e: 65 Performance Compliance ANSI/TIA-568-C.2 ANSI/TIA-568-C.2 ROHS-compliant/ROHS 2-compliant	Insulation	Polyolefin
Jacket polyethylene Optional Outer Armor Interlocked aluminum armor covered with black, sunlight and weather resistant polyethylene jacket Characteristic Impedance Ohms 100 ± 15 Nominal Velocity of Propagation % CAT 6A/6: 68 CAT 5e: 65 Performance Compliance ANSI/TIA-568-C.2 ANSI/TIA-568-C.2 ROHS-compliant/ROHS 2-compliant	Separator	
Optional Outer Armor with black, sunlight and weather resistant polyethylene jacket Characteristic Impedance Ohms 100 ± 15 Nominal Velocity of Propagation % CAT 6A/6: 68 CAT 5e: 65 Performance Compliance ANSI/TIA-568-C.2 ANSI/ICEA S-107-704-2012 RoHS-compliant/RoHS 2-compliant	Jacket	
Ohms IOU ± 15 Nominal Velocity of Propagation % CAT 6A/6: 68 CAT 5e: 65 Performance Compliance ANSI/IIA-568-C.2 ANSI/ICEA S-107-704-2012 RoHS-compliant/RoHS 2-compliant	Optional Outer Armor	with black, sunlight and weather
% CAT 5e: 65 Performance Compliance ANSI/TIA-568-C.2 ANSI/ICEA S-107-704-2012 RoHS-compliant/RoHS 2-compliant	•	100 ± 15
Performance Compliance ANSI/ICEA S-107-704-2012 RoHS-compliant/RoHS 2-compliant		
····-	Performance Compliance	ANSI/ICEA S-107-704-2012

ENVIRONMENTAL SPECIFICATIONS AND TESTS -40°F to +167°F (-40°C to +75°C) Operation Installation

ANSI/ICEA S-100-685-2009 Tested down to -67°F (-55°C) -40°F to +140°F (-40°C to +60°C) Section 7.1: -4°F (-20°C) cold bend test Section 7.2: +14°F (-10°C) cold impact test Section 7.3: -40°F (-40°C) anvil test

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Nominal Diameter Approx. Weight Category Configuration Part Number Product Code AWG (mm) lbs/kft (kg/km) Package in (mm) CAT 6 Interlock armored BBD6 23 (0.57) 14-001-68 0.56 (14.1) 101 (150) 1,000' Plywood reel CAT 6 04-001-68 BBD6 23 (0.57) 0.30 (7.6) 33 (49) 1,000' Plywood reel n/a BBDe 24 (0.51) 0.26 (6.6) 24 (36) CAT 5e n/a 04-001-58 1,000' Plywood reel

Additional part numbers, constructions and packaging available upon request.



PFM[™] Gel-filled, Water-Repellent Core Thermoplastic Insulation

Sunlight and Weather Resistant Polyethylene Outer Jacket

PRODUCT DESCRIPTION

BBD is an Outside Plant (OSP) unshielded Broadband category cable. It is designed to provide an extension of the LAN beyond the premises or in situations where the NEC code requires an OSP-rated cable when it is in contact with earth, whether in a conduit or not. The cable consists of a core of four (4) balanced twisted pairs surrounded by Superior Essex PFM™ gel that does not drip or flow, even in cell tower applications at elevated temperatures. The core is jacketed with a sunlight and abrasion resistant black, polyethylene outer jacket. This unshielded design is suitable for the following deployments: duct, underground conduit and tower.

The BBD is available in a variety of performances including CAT 5e and CAT 6. An optional Aluminum Interlock Armor with overjacket is also available (not suitable for tower deployment).

APPLICATIONS

- 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2
- ATM and token ring

FEATURES

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Transmission performance · Assures ample overhead for characterized to 500 MHz reliable transmission in an for CAT 6 and 350 MHz OSP-rated cable allowing for CAT 5e extension of the premises LAN Unshielded Small, robust design PFM gel-filled core construction . Prevents intrusion of moisture and easily wipes clean during installation OSP-grade black Outside plant rated cable for years of reliable performance polyethylene jacket ColorTip® circuit Easily identifiable conductor identification system mates even in low-light environments Protects against Aluminum interlock armored construction mechanical stresses Installs faster and easier than EMT conduit and conventional wire

BENEFITS

TECHNICAL GUIDELINE

Special connectivity is required for these cable designs. Refer to the "Resources" section on our site for the Technical Guideline, "OSP Broadband Installation Guidelines," for more information.



OSP Broadband BBDN

PRODUCT DESCRIPTION

BBDN is an Outside Plant (OSP) Broadband category cable. It is designed to provide an extension of the LAN beyond the premises or in situations where the NEC code requires an OSP-rated cable when it is in contact with earth, whether in a conduit or not. The cable consists of four (4) balanced twisted pairs surrounded by Superior Essex PFM[™] gel that does not drip or flow, even in cell tower applications at elevated temperatures. The jacketed core is covered with dry block and an 8 mil aluminum tape shield providing exceptional Alien Crosstalk (AXT) performance. The outer jacket is OSP-grade black, polyethylene for superior sunlight and abrasion resistance. This shielded design is suitable for the following deployments: duct, underground conduit, tower, lashed aerial or open trench.

The BBDN is available in a variety of performances including CAT 5e, CAT 6 and CAT 6A. An optional Aluminum Interlock Armor with overjacket is also available (not suitable for tower deployment).

APPLICATIONS

- CAT 6A: 10BASE-T through 10GBASE-T Ethernet; CAT 6/5e: 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2
- ATM and token ring

FEATURES

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FEATURES	BENEFITS
 Transmission performance characterized to 500 MHz for CAT 6A/6 and 350 MHz for CAT 5e 	 Assures ample overhead for reliable transmission in an OSP-rated cable allowing extension of the premises LAN
• 8 mil aluminum tape shield	 Rugged shield provides protection against EMI/RFI
 Dry block between shield and inner jacket 	 Prevents water ingress between shield and inner cable preventing damage to equipment
PFM gel-filled core construction	 Prevents intrusion of moisture and easily wipes clean during installation
 OSP-grade black polyethylene jacket 	 Outside plant rated cable for years of reliable performance
 ColorTip[®] circuit identification system 	 Easily identifiable conductor mates even in low-light environments
Aluminum interlock armored construction	 Protects against mechanical stresses Installs faster and easier than EMT conduit and conventional wire

TECHNICAL GUIDELINE

Special connectivity is required for these cable designs. Refer to the "Resources" section on our site for the Technical Guideline, "OSP Broadband Installation Guidelines," for more information.

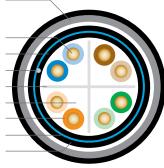


Aluminum Interlock Armor with Sunlight and Weather Resistant Polyethylene Outer Jacket (optional) Solid Annealed Copper Conductor

Polyethylene Inner Jacket

Rip Cord Cross-web Separator (CAT 6/6A only) PFM™ Gel-filled, Water-Repellent Core Thermoplastic Insulation Aluminum Tape Shield Sunlight and Weather Resistant

Polyethylene Outer Jacket



SPECIFICATIONS	
Pair Count	4
Conductor	Solid annealed copper
Insulation	Polyolefin
Separator	CAT 6A/6: Polyolefin cross-web CAT 5e: none
Inner Shield	Electrically continuous 0.008 in (0.20 mm) polymer coated smooth aluminum tape shield, applied with an overlap
Dry Water Block	SAP powder
Jacket	Black, sunlight and weather resistant polyethylene
Optional Outer Armor	Interlocked aluminum armor covered with black, sunlight and weather resistant polyethylene jacket
Characteristic Impedance Ohms	100 ± 15
Nominal Velocity of Propagation %	CAT 6A/6: 68 CAT 5e: 65
Performance Compliance	ANSI/TIA-568-C.2 ANSI/ICEA S-107-704-2012 RoHS-compliant/RoHS 2-compliant REACH-compliant

ENVIRONMENTAL SPECIFICATIONS AND TESTS			
Operation	-40°F to +167°F (-40°C to +75°C)		
Installation	-40°F to +140°F (-40°C to +60°C)		
ANSI/ICEA S-100-685-2009 Tested down to -67°F (-55°C)	Section 7.1: -4°F (-20°C) cold bend test Section 7.2: +14°F (-10°C) cold impact test Section 7.3: -40°F (-40°C) anvil test		

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Category	Part Number	Product Code	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package
CAT 6A	04-001-A4	BBDN6A	23 (0.57)	0.39 (9.8)	59 (88)	1,000' Plywood reel
CAT 6	04-001-64	BBDN6	23 (0.57)	0.39 (9.8)	59 (88)	1,000' Plywood reel
CAT 5e	04-001-54	BBDNe	24 (0.51)	0.36 (9.1)	49 (73)	1,000' Plywood reel

Additional part numbers, constructions and packaging available upon request.

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OSP Broadband BBDG



Aluminum Interlock Armor with Sunlight and Weather Resistant Polyethylene Outer Jacket (optional)

Solid Annealed Copper Conductor

Polyethylene Inner Jacket Rip Cord

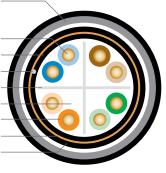
Cross-web Separator (CAT 6/6A only)

PFM[™] Gel-filled, Water-Repellent Core

Thermoplastic Insulation

Copper-clad Steel Armor

Sunlight and Weather Resistant Polyethylene Outer Jacket



SPECIFICATIONS			
Pair Count	4		
Conductor	Solid annealed copper		
Insulation	Polyolefin		
Separator	CAT 6A/6: Polyolefin cross-web CAT 5e: none		
Inner Armor	Electrically continuous 0.005 in (0.13 mm) corrugated copper-clad steel armor, applied with an overlap		
Dry Water Block	SAP yarn		
Jacket	Black, sunlight and weather resistant polyethylene		
Optional Outer Armor	Interlocked aluminum armor covered with black, sunlight and weather resistant polyethylene jacket		
Characteristic Impedance Ohms	100 ± 15		
Nominal Velocity of Propagation %	CAT 6A/6: 68 CAT 5e: 65		
Performance Compliance	ANSI/TIA-568-C.2 ANSI/ICEA S-107-704-2012 RoHS-compliant/RoHS 2-compliant REACH-compliant		

ENVIRONMENTAL SPECIFICATIONS AND TESTS			
Operation	-40°F to +167°F (-40°C to +75°C)		
Installation	-40°F to +140°F (-40°C to +60°C)		
ANSI/ICEA S-100-685-2009 Tested down to -67°F (-55°C)	Section 7.1: $-4^{\circ}F$ (-20°C) cold bend test Section 7.2: $+14^{\circ}F$ (-10°C) cold impact test Section 7.3: $-40^{\circ}F$ (-40°C) anvil test		

PRODUCT DESCRIPTION

BBDG is an Outside Plant (OSP) Broadband category cable. It is designed to provide an extension of the LAN beyond the premises or in situations where the NEC code requires an OSP-rated cable when it is in contact with earth, whether in a conduit or not. The cable consists of four (4) balanced twisted pairs surrounded by Superior Essex PFM[™] gel that does not drip or flow, even in cell tower applications at elevated temperatures. The jacketed core is covered with dry block and a corrugated, copper-clad steel armor providing exceptional Alien Crosstalk (AXT) performance. The outer jacket is an OSP-grade black polyethylene for superior sunlight and abrasion resistance. This armored design is suitable for the following deployments: duct, underground conduit, tower, lashed aerial, direct burial or open trench.

The BBDG is available in a variety of performances including CAT 5e, CAT 6 and CAT 6A. An optional Aluminum Interlock Armor with overjacket is also available (not suitable for tower deployment).

APPLICATIONS

- CAT 6A: 10BASE-T through 10GBASE-T Ethernet; CAT 6/5e: 10BASE-T through 1000BASE-T Ethernet
- Power over Ethernet (PoE) IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2
- ATM and token ring

FEATURES

TEATORES	BEITEITTO			
 Transmission performance characterized to 500 MHz for CAT 6A/6 and 350 MHz for CAT 5e 	 Assures ample overhead for reliable transmission in an OSP-rated cable allowing extension of the premises LAN 			
 Corrugated, copper-clad steel armor 	 Rugged shield provides protection against EMI/RFI and provides rodent resistance 			
 Dry block between armor and inner jacket 	 Prevents water ingress between armor and inner cable preventing damage to equipment 			
PFM gel-filled core construction	 Prevents intrusion of moisture and easily wipes clean during installation 			
 OSP-grade black polyethylene jacket 	 Outside plant rated cable for years of reliable performance 			
 ColorTip[®] circuit identification system 	 Easily identifiable conductor mates even in low-light environments 			
Aluminum interlock armored construction	 Protects against mechanical stresses Installs faster and easier than EMT conduit and conventional wire 			

BENEFITS



TECHNICAL GUIDELINE

Special connectivity is required for these cable designs. Refer to the "Resources" section on our site for the Technical Guideline, "OSP Broadband Installation Guidelines," for more information.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Category	Part Number	Product Code	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package
CAT 6A	04-001-A5	BBDG6A	23 (0.57)	0.39 (9.8)	72 (107)	1,000' Plywood reel
CAT 6	04-001-65	BBDG6	23 (0.57)	0.39 (9.8)	72 (107)	1,000' Plywood reel
CAT 5e	04-001-55	BBDGe	24 (0.51)	0.36 (9.1)	60 (89)	1,000' Plywood reel

Additional part numbers, constructions and packaging available upon request.



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OSP Broadband Indoor/Outdoor

Halogen-Free CM/CMX

PRODUCT DESCRIPTION

BBD Indoor/Outdoor Halogen-Free is a CM/CMX rated category cable combining Outside Plant (OSP) Broadband features with an indoor application. It is designed to provide an extension of the LAN beyond the premises or in situations where the NEC code requires an OSP-rated cable and can be used inside the building according to NEC CM rated rules. The cable consists of four (4) balanced twisted pairs surrounded by Superior Essex PFM[™] gel that does not drip or flow, even in cell tower applications at elevated temperatures. The jacketed core is covered with dry block and a shield providing exceptional Alien Crosstalk (AXT) performance. The outer jacket is an OSP-grade, black, halogen-free polyethylene for superior sunlight and abrasion resistance. This shielded design is suitable for the following deployments: duct, underground conduit, tower, lashed aerial, open trench or low-risk direct burial.

The OSP Broadband Indoor/Outdoor is available in a variety of performances including CAT 6 and CAT 6A. It is also available in BBDG (copper-clad steel armor) and BBDN (aluminum tape shield; not suitable for direct burial deployment) constructions.

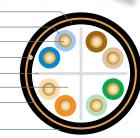
APPLICATIONS

- CAT 6A: 10BASE-T through 10GBASE-T Ethernet; CAT 6: 10BASE-T through 1000BASE-T
- Power over Ethernet (PoE) IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2
- ATM and token ring

FEATURES	BENEFITS
Transmission performance characterized to 500 MHz	 Assures ample overhead for reliable transmission in an OSP-rated cable allowing extension of the premises LAN
 Corrugated, copper-clad steel armor 	 Rugged shield provides protection against EMI/RFI and provides rodent resistance
• Shield/armor	 Rugged shield provides protection against EMI/RFI and provides rodent resistance (BBDG only)
 Dry block between shield/armor and inner jacket 	 Prevents water ingress between shield/armor and inner cable preventing damage to equipment
PFM gel-filled core construction	 Prevents intrusion of moisture and easily wipes clean during installation
 OSP-grade black polyethylene jacket 	 Outside plant rated cable for years of reliable performance
UL [®] CM listed	 Allows for CM specific application Ideal for indoor/outdoor deployment

TECHNICAL GUIDELINE

Special connectivity is required for these cable designs. Refer to the "Resources" section on our site for the Technical Guideline, "OSP Broadband Installation Guidelines," for more information. Polyethylene Inner Jacket — Thermoplastic Insulation — Solid Annealed Copper Conductor — Rip Cord — Cross-web Separator — PFM™ Gel-filled, Water-Repellent Core — Copper-clad Steel Armor (BBDG) or Aluminum Tape Shield (BBDN) Sunlight and Weather Resistant, — Halogen-Free, Polyethylene Outer Jacket



SPECIFICATIONS	
Pair Count	4
Conductor	Solid annealed copper
Insulation	Polyolefin
Separator	CAT 6A/6: Polyolefin cross-web CAT 5e: none
Shield/Armor	BBDG: Electrically continuous 0.005 in (0.13 mm) corrugated copper-clad steel armor, applied with an overlap BBDN: Electrically continuous 0.008 in (0.20 mm) polymer coated smooth aluminum tape shield, applied with an overlap
Dry Water Block	BBDG: SAP yarn BBDN: SAP powder
Inner/Outer Jackets	Black, halogen-free, sunlight and weather-resistant polyethylene
Characteristic Impedance Ohms	100 ± 15
Nominal Velocity of Propagation %	CAT 6A/6: 68 CAT 5e: 65
Performance Compliance	ANSI/TIA-568-C.2 CSA C22.2 No. 214-08 UL 444 UL 1685 UL 2556 ANSI/ICEA S-107-704-2012 RoHS-compliant/RoHS 2-compliant REACH-compliant
NRTL Programs	UL, c(UL) listed CM UL, c(UL) listed CMX Outdoor Sunlight Resistant
ENVIRONMENTAL SPECIFICATIONS	AND TESTS

ENVIRONMENTAL SPECIFICATIONS AND TESTS			
Operation -40°F to +167°F (-40°C to +75°C)			
Installation	-40°F to +140°F (-40°C to +60°C)		
ANSI/ICEA S-100-685-2009	Section 7.1: -4°F (-20°C) cold bend test Section 7.2: +14°F (-10°C) cold impact test Section 7.3: -40°F (-40°C) anvil test		

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Category	Part Number	Product Code	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package
CAT 6A	04-001-A3	BBDG6A	23 (0.57)	0.39 (9.8)	91 (136)	1,000' Plywood reel
CAT 6A	04-001-A2	BBDN6A	23 (0.57)	0.39 (9.8)	84 (125)	1,000' Plywood reel
CAT 6	04-001-63	BBDG6	23 (0.57)	0.39 (9.8)	91 (136)	1,000' Plywood reel
CAT 6	04-001-62	BBDN6	23 (0.57)	0.39 (9.8)	84 (125)	1,000' Plywood reel

Additional part numbers, constructions and packaging available upon request. UL is a registered trademark of UL LLC.

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OSP Broadband Duplex

Sunlight and Weather Resistant Polyethylene Outer Jacket

Copper-clad Steel Armor (BBDG) or Aluminum Tape Shield (BBDN)

- Polvethylene Inner Jacket -
- Polyester Rip Cord Sunlight and Weather Resistant
- Polyethylene Overjacket
- PFM Gel-filled, Water-Repellent Core
- Cross-web Separator (CAT 6/6A only)
 - Solid Annealed Copper Conductor
 - Thermoplastic Insulation -

2

SPECIFICATIONS	
Pair Count	4
Conductor	Solid annealed copper
Insulation	Polyolefin
Separator	CAT 6A/6: Polyolefin cross-web CAT 5e: none
Shield/Armor	BBDG: Electrically continuous 0.005 in (0.13 mm) corrugated copper-clad steel armor, applied with an overlap BBDN: Electrically continuous 0.008 in (0.20 mm) polymer coated smooth aluminum tape shield, applied with an overlap
Dry Water Block	BBDG: SAP yarn BBDN: SAP powder
Inner Jacket/Outer Jacket/Overjacket	Black, sunlight and weather-resistant polyethylene
Characteristic Impedance Ohms	100 ± 15
Nominal Velocity of Propagation %	CAT 6A/6: 68 CAT 5e: 65
Performance Compliance	ANSI/TIA-568-C.2 ANSI/ICEA S-107-704-2012 RoHS-compliant/RoHS 2-compliant REACH-compliant

ENVIRONMENTAL SPECIFICATIONS AND TESTS			
Operation -40°F to +167°F (-40°C to +75°C)			
Installation	-40°F to +140°F (-40°C to +60°C)		
ANSI/ICEA S-100-685-2009	Section 7.1: $-4^{\circ}F$ (-20°C) cold bend test Section 7.2: $+14^{\circ}F$ (-10°C) cold impact test Section 7.3: $-40^{\circ}F$ (-40°C) anvil test		

PRODUCT DESCRIPTION

BBD Duplex is an Outside Plant (OSP) Broadband category cable. It is designed to provide an extension of the LAN beyond the premises or in situations where the NEC code requires an OSP-rated cable when it is in contact with earth, whether in a conduit or not. The cable consists of a core of four balanced twisted pairs surrounded by Superior Essex PFM™ gel that does not drip or flow, even in cell tower applications at elevated temperatures. The jacketed core is covered with dry block and a shield providing exceptional Alien Crosstalk (AXT) performance. Two cores are then jacketed together under a sunlight and abrasion-resistant black, polyethylene overjacket including an aramid rip cord. This feature reduces installation and lease costs in tower application. This shielded design is suitable for the following deployments: duct, underground conduit, tower, lashed aerial, open trench or direct burial.

The OSP Broadband Duplex is available in a variety of performances including CAT 5e, CAT 6 and CAT 6A. It is also available in BBDG (copper-clad steel armor) and BBDN (aluminum tape shield; not suitable for direct burial deployment) constructions.

APPLICATIONS

- CAT 6A: 10BASE-T through 10GBASE-T Ethernet; CAT 6/5e: 10BASE-T through 1000BASE-T
- Power over Ethernet (PoE) IEEE 802.3af
- PoE+ IEEE 802.3at Type 1 and 2
- ATM and token ring

FEATURES

· Assures ample overhead for • Transmission performance characterized to 500 MHz reliable transmission in an for CAT 6A/6 and 350 MHz OSP-rated cable allowing for CAT 5e extension of the premises LAN Corrugated, copper-clad Rugged shield provides steel armor protection against EMI/RFI and provides rodent resistance Shield/armor Rugged shield provides protection against EMI/RFI and provides rodent resistance (BBDG only) Dry block between shield/armor and inner jacket damage to equipment PFM gel-filled core construction . Prevents intrusion of moisture

BENEFITS

- OSP-grade black polyethylene jacket
- ColorTip™ circuit identification system

TECHNICAL GUIDELINE

- Prevents water ingress between shield in inner cable preventing
- and easily wipes clean during installation
- Outside plant rated cable for years of reliable performance
- Easily identifiable conductor mates even in low-light environments



Special connectivity is required for these cable designs. Refer to the "Resources" section on our site for the Technical Guideline, "OSP Broadband Installation Guidelines," for more information.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

		Dimensions				
Part Number	Product Code	AWG (mm)	Minor in (mm)	Major in (mm)	Approx. Weight lbs/kft (kg/km)	Package
04-A01-55	BBDGe	24 (0.51)	0.44 (11.2)	0.76 (19.3)	148 (221)	1,000' Plywood reel
				Minor Part Number Product Code AWG (mm) in (mm)	Minor Major Part Number Product Code AWG (mm) in (mm) in (mm)	Minor Major Approx. Weight Part Number Product Code AWG (mm) in (mm) in (mm) Ibs/kft (kg/km)

Additional part numbers, constructions and packaging available upon request.



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Solid

Nor

PRODUCT DESCRIPTION

MEGAPIC® Category 5 cables provide an extension of the LAN beyond the premises. These cables are ideal for direct burial, underground and lashed aerial applications.

APPLICATIONS

- 10BASE-T
- ATM and token ring
- ADSL, VDSL, VDSL+
- MEGAPIC-NF: Higher pair count shielded distribution cable for use in lashed aerial, direct burial and duct installations
- MEGAPIC-GF: Higher pair count shielded distribution cable for use in lashed aerial, direct burial and installations in high risk areas where additional mechanical protection is required

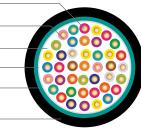
FEATURES

- BENEFITS
- Transmission performance . characterized to 100 MHz
- Extends the LAN to the entire campus
- Metallic shield tapes
- Fully filled constructions
- Facilitates grounding according to NEC requirements
- · Helps prevent intrusion of moisture

Annealed Copper Conductor	
Solid Polyolefin Insulation	
ETPR Filling Compound	
n-hygroscopic Dielectric Tape	

Polymer-Coated Corrugated Aluminum Tape Shield

Black, Sunlight and Weather Resistant Polyethylene Jacket



SPECIFICATIONS	
Pair Count	Available in 25-pair, 50-pair and 100-pair
Conductor	Solid annealed copper
AWG (mm)	24 (0.51)
Filling Compound	80°C ETPR (extended thermoplastic rubber)
Core Wrap	Non-hygroscopic dielectric tape
Shield	 MEGAPIC-NF: Electrically continuous 0.008 in (0.20 mm) polymer coated corrugated aluminum tape, applied with an overlap and shield interface is flooded MEGAPIC-GF: ASP sheath consisting of an inner electrically continuous 0.008 in (0.20 mm) polymer coated corrugated aluminum tape applied with a gap and covered with an outer electrically continuous 0.006 in (0.15 mm) polymer coated corrugated steel tape applied with an overlap; interfaces of both tapes are flooded
Jacket	Black, sunlight and weather resistant polyethylene
Characteristic Impedance Ohms	100 ± 15
Nominal Velocity of Propagation %	58
Performance Compliance	ANSI/TIA-568-C.2 ANSI/ICEA S-99-689-2012 RoHS-compliant/RoHS 2-compliant

PART NUMBERS AND PHYSICAL CHARACTERISTICS

		in shies				
Part Number	Name	Pair Count	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Package
04-097-31	MEGAPIC-NF	25	0.68 (17.3)	208 (310)	5,000 (1,524)	Wood reel
04-100-31	MEGAPIC-NF	50	0.91 (23.1)	388 (578)	5,000 (1,524)	Wood reel
04-104-31	MEGAPIC-NF	100	1.22 (31.0)	701 (1,044)	1,000 (305)	Wood reel
04-097-37	MEGAPIC-GF	25	0.71 (18.0)	258 (385)	5,000 (1,524)	Wood reel
04-100-37	MEGAPIC-GF	50	0.91 (24.4)	436 (650)	5,000 (1,524)	Wood reel
04-104-37	MEGAPIC-GF	100	1.26 (23.1)	807 (1,202)	1,000 (305)	Wood reel



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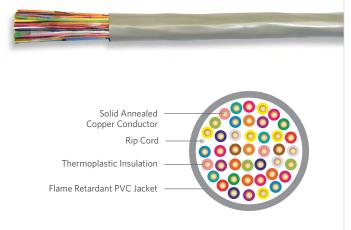
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TECHNICAL GUIDELINE

Special connectivity is required for these cable designs. Refer to the "Resources" section on our site for the Technical Guideline, "OSP Broadband Installation Guidelines," for more information.

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SPECIFICATIONS

SPECIFICATIONS	
Pair Count	Available in 2-pair up to 400-pair
Conductor	Solid annealed copper
AWG (mm)	24 (0.51)
Insulation	Thermoplastic
Jacket	CMR: Flame retardant (FR) PVC CMP: FR, low smoke PVC
Characteristic Impedance Ohms	100 ± 15
Performance Compliance	UL® 444 CSA C22.2 No. 214-08 UL 1666 NFPA 262 ANSI/TIA-568-C.2 ANSI/ICEA S-90-661-2012 Article 800, NEC (NFPA 70) RoHS-compliant/RoHS 2-compliant
NRTL Programs	UL, c(UL) Listed CMR UL, c(UL) Listed CMP

PRODUCT DESCRIPTION

The ideal choice for LAN transmission with specified bandwidth up to 16 MHz. These cables are used for voice and data communications and can handle application bandwidths up to 16 MHz. Other uses for these cables include indoor use on customer premises for the interconnection of telephone key systems, PBX and intercom systems. Product is offered for both plenum (CMP) and riser (CMR) applications.

BENEFITS

APPLICATIONS

- 4 Mbps token ring (IEEE 802.5)
- Analog voice
- 10 Mbps 10BASE-T Ethernet (IEEE 802.3)
- Telecommunications closet wiring

FEATURES

- CMR and CMP constructions use
 Easier and less time-consuming extremely flexible, FR-PVC jacket
- Jacket color options
- outer jacket Improves backbone sub-system . identification, reduces labor

installations, no kinking of

- Band marked or striped insulated conductors
- and mistakes Reduces termination time and improves circuit identification



HOMBERS	AND PHYSICAL CHAI			Newing Direct	A		Davis
Listing	Part Number	Pair Count	Jacket Color	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package	Package: per Palle
CMR	18-042-13	2	Beige	0.12 (3.1)	9 (13)	1,000' POP™ box	45
CMR	18-042-33	2	Gray	0.12 (3.1)	9 (13)	1,000' POP box	45
CMR	18-141-13	3	Beige	0.14 (3.5)	12 (18)	1,000' POP box	45
CMR	18-141-33	3	Gray	0.14 (3.5)	12 (18)	1,000' POP box	45
CMR	18-241-13	4	Beige	0.16 (3.9)	15 (22)	1,000' POP box	45
CMR	18-241-23	4	Blue	0.16 (3.9)	15 (22)	1,000' POP box	45
CMR	18-241-33	4	Gray	0.16 (3.9)	15 (22)	1,000' POP box	45
CMR	18-241-43	4	White	0.16 (3.9)	15 (22)	1,000' POP box	45
CMR	18-341-13	6	Beige	0.19 (4.8)	22 (32)	1,000' POP box	45
CMR	18-341-33	6	Gray	0.19 (4.8)	22 (32)	1,000' POP box	45
CMR	18-872-13	12	Beige	0.27 (6.9)	47 (71)	1,000' Plywood reel	16
CMR	18-872-33	12	Gray	0.27 (6.9)	47 (71)	1,000' Plywood reel	16
CMR	18-475-13	25	Beige	0.38 (9.6)	92 (137)	1,000' Plywood reel	12
CMR	18-499-13	25	Beige	0.38 (9.6)	92 (137)	Cut to length	1
CMR	18-475-33	25	Gray	0.38 (9.6)	92 (137)	1,000' Plywood reel	12
CMR	18-499-33	25	Gray	0.38 (9.6)	92 (137)	Cut to length	1
CMR	18-579-13	50	Beige	0.56 (14.2)	187 (279)	1,000' Plywood reel	4
CMR	18-599-13	50	Beige	0.56 (14.2)	187 (279)	Cut to length	1
CMR	18-579-33	50	Gray	0.56 (14.2)	187 (279)	1,000' Plywood reel	4
CMR	18-599-33	50	Gray	0.56 (14.2)	187 (279)	Cut to length	1
CMR	18-789-13	100	Beige	0.74 (18.7)	361 (538)	Cut to length	1
CMR	18-789-33	100	Gray	0.74 (18.7)	361 (538)	Cut to length	1
CMR	18-D99-33	150	Gray	0.92 (23.4)	541 (807)	Cut to length	1
CMR	18-A99-33	200	Gray	1.05 (26.6)	711 (1,060)	Cut to length	1
CMR	18-B99-33	300	Gray	1.27 (32.2)	1,049 (1,564)	Cut to length	1
CMR	18-C99-33	400	Gray	1.45 (36.9)	1,386 (2,067)	Cut to length	1
CMP	18-041-36	2	Gray	0.13 (3.3)	10 (15)	1,000' POP box	45
СМР	18-141-36	3	Gray	0.15 (3.7)	14 (20)	1,000' POP box	45
CMP	18-241-26	4	Blue	0.16 (4.2)	17 (26)	1,000' POP box	45
CMP	18-241-36	4	Gray	0.16 (4.2)	17 (26)	1,000' POP box	45
CMP	18-241-46	4	White	0.16 (4.2)	17 (26)	1,000' POP box	45
CMP	18-241-56	4	Green	0.16 (4.2)	17 (26)	1,000' POP box	45
CMP	18-341-36	6	Gray	0.20 (5.0)	24 (37)	1,000' POP box	45
СМР	18-341-46	6	White	0.20 (5.0)	24 (37)	1,000' POP box	45
CMP	18-872-46	12	White	0.30 (7.6)	49 (73)	1,000' Plywood reel	16
CMP	18-475-36	25	Gray	0.43 (10.9)	114 (171)	1,000' Plywood reel	12
CMP	18-499-36	25	Gray	0.43 (10.9)	114 (171)	Cut to length	1
CMP	18-475-46	25	White	0.43 (10.9)	114 (171)	1,000' Plywood reel	12
CMP	18-499-46	25	White	0.43 (10.9)	114 (171)	Cut to length	1
CMP	18-579-36	50	Gray	0.60 (15.3)	227 (339)	1,000' Plywood reel	4
CMP	18-599-36	50	Gray	0.60 (15.3)	227 (339)	Cut to length	1
CMP	18-799-36	100	Gray	0.84 (21.3)	446 (665)	Cut to length	1
CMP	18-799-46	100	White	0.84 (21.3)	446 (666)	Cut to length	1
CMP	18-A99-36	200	Gray	1.16 (29.4)	850 (1,268)	Cut to length	1
CMP	18-B99-36	300	Gray	1.44 (36.7)	1,315 (1,960)	Cut to length	1
CMP	18-B99-36	300	White	1.44 (36.7)	1,315 (1,960)	Cut to length	1
						~	1
СМР	18-C99-36	400	Gray	1.64 (41.7)	1,720 (2,565)	Cut to length	

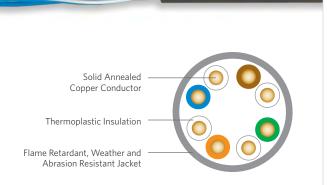
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CMR/CMX Outdoor

SPECIFICATIONS



Pair Count	Available in 2-pair to 12-pair
Conductor	Solid annealed copper
AWG (mm)	Available in 22 (0.64) and 24 (0.51)
Insulation	Thermoplastic
Jacket	Tough, flame retardant, weather and abrasion resistant PVC

Jacket	and abrasion resistant PVC
Performance Compliance	UL 444 CSA C22.2 No. 214-08 UL 1666 Extreme CMR/CMX Outdoor Includes ICEA -40°C Anvil Test ANSI/TIA-568-C.2 ANSI/ICEA S-100-685 Article 800, NEC (NFPA 70) RoHS-compliant/RoHS 2-compliant
NRTL Programs	UL, c(UL) Listed CMR UL, c(UL) Listed CMX Outdoor

ENVIRONMENTAL SPECIFICATIONS AND TESTS

Operation	CMR/CMX Outdoor: -4°F to +149°F (-20°C to +65°C) Extreme CMR/CMX Outdoor: -40°F to +167°F (-40°C to +75°C)		
Installation	+14°F to +140°F (-10°C to +60°C)		
ANSI/ICEA S-100-685-2009	CMR/CMX Outdoor: Section 7.1: -4°F (-20°C) cold bend test Section 7.2: +14°F (-10°C) cold impact test Extreme CMR/CMX Outdoor: Section 7.1: -4°F (-20°C) cold bend test Section 7.2: +14°F (-10°C) cold impact test Section 7.3: -40°F (-40°C) anvil test		

PRODUCT DESCRIPTION

The Superior Essex Category 3 Station Wires CMR/CMX Outdoor cable is specifically designed for outdoor, indoor, or a combination of both applications. CMX Outdoor cables extend the run between the Network Interface Unit and the point of entry into the interior of a residence or a premise. Their twisted pair construction is small and lightweight.

These Category 3 (CAT 3) cables have been tested and listed as UL® 444 Outdoor compliant, requiring the cable to resist 300 hours of UV and heat. In addition, the CMR listing allows the cable to be used in riser spaces per UL 1666, eliminating the need to transition to fire resistant cables. UV-blocking compounds also aid in protecting the cable from light.

Two levels of Outdoor Protection are available: CMR/CMX Outdoor and Extreme CMR/CMX Outdoor which meets the -40°C anvil test.

APPLICATIONS

- 4 Mbps token ring (IEEE 802.5)
- Analog voice
- 10 Mbps 10BASE-T Ethernet (IEEE 802.3)
- Telecommunications closet wiring

FFATURES

· Extremely flexible, • Easier and less time-consuming installations, no kinking of FR-PVC jacket outer jacket CMR/CMX Outdoor Indoor/outdoor use combination Extreme CMR/CMX Indoor/outdoor use with extreme Outdoor combination cold temperature feature Beige, gray and ivory Enhances appearance jacket colors on outdoor siding Various conductor colors Customer preference .

BENEEITS



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CAUTIONARY INFORMATION

- Do not use as a substitute for Outside Plant (OSP) cables.
- Do not use in conduit or direct burial which can flood. These cables are not designed for extended exposure to water.



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Listing	Part Number	Pair Count	AWG (mm)	Jacket Color	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet
CMR/CMX Outdoor	12-202-37 ¹	2	22 (0.64)	Beige	0.18 (4.7)	17 (26)	1,000' POP™ box	45
CMR/CMX Outdoor	12-203-37 ¹	3	22 (0.64)	Beige	0.22 (5.5)	24 (36)	1,000' POP box	45
CMR/CMX Outdoor	12-204-37 ¹	4	22 (0.64)	Beige	0.22 (5.6)	29 (43)	1,000' POP box	36
CMR/CMX Outdoor	12-214-37 ¹	4	22 (0.64)	Gray	0.22 (5.6)	29 (43)	1,000' POP box	36
CMR/CMX Outdoor	12-402-37 ¹	2	24 (0.51)	Beige	0.15 (3.7)	12 (18)	1,000' POP box	45
CMR/CMX Outdoor	12-403-37 ¹	3	24 (0.51)	Beige	0.17 (4.3)	16 (24)	1,000' POP box	45
CMR/CMX Outdoor	12-404-37 ¹	4	24 (0.51)	Beige	0.20 (5.0)	20 (30)	1,000' POP box	45
CMR/CMX Outdoor	12-212-32 ²	2	22 (0.64)	Beige	0.18 (4.7)	17 (26)	1,000' POP box	45
CMR/CMX Outdoor	12-213-32 ²	3	22 (0.64)	Beige	0.22 (5.5)	24 (36)	1,000' POP box	45
CMR/CMX Outdoor	12-206-32 ²	4	22 (0.64)	Beige	0.22 (5.6)	29 (43)	1,000' POP box	45
CMR/CMX Outdoor	12-412-32 ²	2	24 (0.51)	Beige	0.15 (3.7)	12 (18)	1,000' POP box	45
CMR/CMX Outdoor	12-414-32 ²	4	24 (0.51)	Beige	0.20 (5.0)	20 (30)	1,000' POP box	45
treme CMR/CMX Outdoor	11-002-89 ³	2	22 (0.64)	Gray	0.17 (4.3)	19 (29)	125' Coil pack	128
treme CMR/CMX Outdoor	11-002-88 ³	2	22 (0.64)	lvory	0.17 (4.3)	19 (29)	125' Coil pack	256
treme CMR/CMX Outdoor	11-002-87 ³	2	22 (0.64)	lvory	0.17 (4.3)	19 (29)	1,000' POP box	45
ktreme CMR/CMX Outdoor	11-003-12 ³	2	24 (0.51)	lvory	0.15 (3.7)	12 (18)	1,000' POP box	45
treme CMR/CMX Outdoor	11-003-13 ³	2	24 (0.51)	Gray	0.15 (3.7)	12 (18)	1,000' POP box	45
treme CMR/CMX Outdoor	11-003-91 ³	4	24 (0.51)	White	0.20 (5.0)	20 (30)	1,000' POP box	45
treme CMR/CMX Outdoor	11-003-92 ³	4	24 (0.51)	lvory	0.20 (5.0)	20 (30)	1,000' POP box	45
treme CMR/CMX Outdoor	12-303-62 ^{3*}	6	24 (0.51)	Gray	0.21 (5.3)	27 (41)	1,000' POP box	36
treme CMR/CMX Outdoor	12-805-62 ³ *	12	24 (0.51)	Gray	0.28 (7.2)	49 (74)	1,000' Plywood reel	16
ktreme CMR/CMX Outdoor	12-414-52 ⁴	3	22 (0.64)	Beige	0.22 (5.5)	24 (36)	1,000' POP box	45
ktreme CMR/CMX Outdoor	12-415-52 ⁴	2	24 (0.51)	Beige	0.15 (3.7)	12 (18)	1,000' POP box	45
ktreme CMR/CMX Outdoor	12-416-52 ⁴	3	24 (0.51)	Beige	0.17 (4.3)	16 (24)	1,000' POP box	45
treme CMR/CMX Outdoor	12-417-52 ⁴	4	24 (0.51)	Beige	0.20 (5.0)	20 (30)	1,000' POP box	45

¹These products use a tubed jacket design with the following color code: Blue/White, Orange/White, Green/White, Brown/White.

³These products use a tubed jacket design with the following color code: Red/Green, Yellow/Black, Blue/White, Orange/Brown. ³These products use a tubed jacket design with the following color code: Red/Green, Yellow/Black, Blue/White, Orange/Brown. ³These products use a tubed jacket design with the following color code: Red/Green, Yellow/Black, Blue/White, Orange/Brown.

⁴These products use a tubed jacket design with the following color code: Red/Green, Yellow/Black, Blue/White, Orange/Brown.

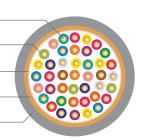
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A-101

ARMM Series

Solid Annealed Copper Conductor Polyethylene Foam with PVC Skin Insulation Non-hygroscopic Dielectric Tape Corrugated Aluminum Tape Shield Flame Retardant and Abrasion Resistant PVC Jacket



SPECIFICATIONS	
Pair Count	Available in 25-pair up to 2,400-pair
Conductor	Solid annealed copper
AWG (mm)	24 (0.51)
Insulation	Polyethylene foam with PVC skin
Shield	Corrugated 8 mil aluminum tape
Jacket	Gray, flame retardant and abrasion resistant PVC
Characteristic Impedance Ohms	100 ± 15
Nominal Velocity of Propagation %	71
Performance Compliance	UL® 444 CSA C22.2 No. 214-08 UL 1666 Telcordia® GR-111 ANSI/TIA-568-C.2 Article 800, NEC (NFPA 70) RoHS-compliant/RoHS 2-compliant
NRTL Programs	UL, c(UL) Listed CMR

PRODUCT DESCRIPTION

The ARMM Series cables are intended for vertical and horizontal distribution in commercial buildings and meet Category 3 electrical specifications. This includes all applications except those in plenums. These cables have a fire-retardant PVC jacket and have been listed as CMR rated, in accordance with the National Electrical Code. ARMM cables are color coded to match standard Outside Plant (OSP) cable designs. The cable consists of solid soft bare copper that's insulated with foam polyethylene and a skin of PVC. Cores through 900-pair are color coded to match the standard PIC color code. Cables 1,200-pair and larger have a "Mirror Image" color code. Spare pairs are offered in cables of 1,200-pair and larger. An alvyn sheath is applied overall. The alvyn sheath consists of a 8 mil aluminum tape applied longitudinally and bonded to a gray PVC outer jacket.

APPLICATIONS

- Riser shafts without using conduits
- 4 Mbps token ring
- Analog voice
- 10BASE-T Ethernet

FEATURES

- CMR rating
- Shielded design
- Meets NFPA code for riser applications
- Provides EMI/RFI shielding

PART NUMBERS AND PHYSICAL CHARACTERISTICS

ART NOWBERS AND P	HYSICAL CHARACTERISTICS	•			
Listing	Part Number	Pair Count	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package
CMR	02-097-03	25	0.51 (13)	146 (218)	Cut to length
CMR	02-100-03	50	0.64 (16)	241 (360)	Cut to length
CMR	02-104-03	100	0.89 (23)	447 (667)	Cut to length
CMR	02-106-03	150	1.02 (26)	618 (922)	Cut to length
CMR	02-108-03	200	1.14 (29)	788 (1,175)	Cut to length
CMR	02-110-03	300	1.35 (34)	1,129 (1,684)	Cut to length
CMR	02-112-03	400	1.53 (39)	1,427 (2,128)	Cut to length
CMR	02-116-03	600	1.85 (47)	2,106 (3,140)	Cut to length
CMR	02-118-03	900	2.20 (56)	3,060 (4,563)	Cut to length
CMR	02-120-03	1,200	2.50 (63)	4,008 (5,977)	Cut to length
CMR	02-121-03	1,500	2.80 (71)	5,013 (7,476)	Cut to length
CMR	02-124-03	1,800	3.05 (77)	5,958 (8,884)	Cut to length
CMR	02-125-03	2,100	3.30 (84)	6,908 (10,302)	Cut to length
CMR	02-126-03	2,400	3.52 (89)	7,852 (11,709)	Cut to length

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📕 ID#BU42 📕 SUPERIO

📕 ID#AQ23 📕 SUPI

ID#CT06

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Save Time, Save Money

Superior Essex Offers Multiple Product Features To Make Your Next Cable Installation Run More Smoothly

CABLEID[®] ALPHA NUMERIC CODING

- Unique 4-character code printed code every 2 feet on the cable jacket for each 1000-foot box and reel of copper data cable
- Both ends of each cable run are easily identifiable without the need to separately label or tone the cable
- Reduces installation time and cost for initial installations and for moves, adds and changes

COLORTIP[®] CIRCUIT IDENTIFICATION

- Circumferentially colors 100% of the conductor for easily identifiable tip and ring mates
- Distinct colors reduces termination time and errors, even in low light environments
- Permanent, heavy-metal-free color that doesn't rub or wear off

QUICKCOUNT[®] FEET/METERS MARKING

- Jacket marking in feet and meters
- Provides remaining length of cable on reel removing the guesswork for cable installers
- Saves time and cost during installation



0896 FT/273.1 M III ID#BUH2

0904 FT/275.5 M III ID:

0920 FT/280.4 M

BRAKEBOX[®] PAYOUT CONTROL

The BrakeBox packaging is a true advantage for installers who are pulling cable in multiple locations.

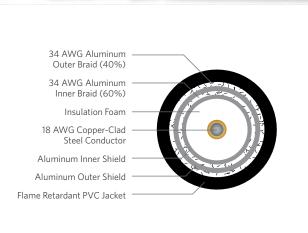
- Stacks, travels and protects cable better than an open reel
- Two resistance mechanisms on both sides of the box, each with three variable resistance settings
- Controls back-tension to prevent over-spin and tangling

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800.551.8948 SuperiorEssex.com



Coax RG-6, Quad Shield CM/CATV, CMR/CATVR, CMP/CL2P, Interlock Armored CMR



Copper clad steel

SPECIFICATIONS Conductor

AWG (mm)	18 (1.02)
Inner Shield	CM/CMR: 2.8 mil aluminum foil CMP: Aluminum/polyester/aluminum
Inner Braid	34 AWG aluminum (60%)
Outer Shield	CM/CMR: 1.8 mil aluminum foil CMP: Aluminum/polyester/aluminum
Outer Braid	34 AWG aluminum (40%)
Insulation	CM/CMR: Polyethylene CMP: Foamed fluoropolymer
Jacket	PVC (polyvinyl chloride)
Nominal Impedance Ohms	75
Nominal Velocity of Propagation %	CM/CMR: 85 CMP: 83
Performance Compliance	UL® 13 UL 444 CSA C22.2 No. 214-08 UL 1685 UL 1666 NFPA 262 RoHS-compliant/RoHS 2-compliant
NRTL Programs	UL, c(UL) Listed CM UL, c(UL) Listed CMR UL, c(UL) Listed CMP

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PART NUMBERS AND PHYSICAL CHARACTERISTICS

				Nominal Diamete				
Listing	Part Number	Component Jacket Color	Overall in (mm)	Dielectric in (mm)	Shield in (mm)	Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet
CM/CATV	78-147-91	White	0.30 (7.5)	0.18 (4.6)	0.19 (4.8)	29 (43)	1,000' Plywood reel	27
CM/CATV	79-147-91	Black	0.30 (7.5)	0.18 (4.6)	0.19 (4.8)	29 (43)	1,000' Plywood reel	27
CM/CATV	78-147-9P	White	0.30 (7.5)	0.18 (4.6)	0.19 (4.8)	29 (43)	1,000' POP™ box	20
CM/CATV	79-147-9P	Black	0.30 (7.5)	0.18 (4.6)	0.19 (4.8)	29 (43)	1,000' POP box	20
CMR/CATVR	78-148-91	White	0.30 (7.5)	0.18 (4.6)	0.19 (4.8)	30 (45)	1,000' Plywood reel	27
CMR/CATVR	79-148-91	Black	0.30 (7.5)	0.18 (4.6)	0.19 (4.8)	30 (45)	1,000' Plywood reel	27
CMP/CL2P	78-14C-91	White	0.26 (6.7)	0.17 (4.3)	0.23 (5.9)	30 (45)	1,000' Plywood reel	25
	Aluminum Interlock Armored (no outer jacket)							
CMR	KC-919-45	White	0.53 (13.5)	0.18 (4.6)	0.19 (4.8)	73 (109)	1,000' Plywood reel	1
CMR	KC-919-E5	Black	0.53 (13.5)	0.18 (4.6)	0.19 (4.8)	73 (109)	1,000' Plywood reel	1

PRODUCT DESCRIPTION

Superior Essex RG-6, Quad Shield coaxial cables are designed to support technologies such as extended bandwidth satellite service, high definition TV signals, CATV and two-way cable modems. Superior Essex maintains tight tolerances to cable diameter requirements of leading connector manufacturers. Also available as interlock armored coax.

APPLICATIONS

FEATURES

- HDTV, CATV and CCTV
- Two-way cable modems
- Extended bandwidth satellite service

RG-6, Quad Shield Coaxial cable • "Future-proofing" the with bandwidth that exceeds installation. Supports extended bandwidth satellite service and 3 GHz

BENEFITS

- Tight foamed polyethylene (CM and CMR) or fluoropolymer (CMP) insulating skin bonds around center conductor
- Black and white jacket colors available for CM and CMR versions
- Interlock armored version
- high-definition TV signals
 - Exhibits better transmission characteristics
 - Helps differentiate incoming service versus internal cabling infrastructure
 - Provides additional mechanical and fire safety protection



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ICAL SPECIFICATIONS			
	d CMR/CATVR n Maximum	CM/CATV and CMR/CATV	
Frequency MHz	Specification dB/100 ft (dB/100 m)	Typical dB/100 ft (dB/100 m)	SRL, Typical dB
55	1.6 (5.3)	1.3 (4.8)	20
211	3.1 (10.1)	2.7 (9.0)	20
270	3.5 (11.5)	3.1 (10.3)	20
300	3.7 (12.1)	3.4 (11.0)	20
330	3.9 (12.8)	3.6 (11.7)	20
400	4.3 (14.1)	4.0 (13.1)	20
450	4.6 (15.0)	4.1 (13.6)	20
550	5.1 (16.7)	4.7 (15.3)	20
750	6.0 (19.7)	5.2 (17.1)	20
870	6.5 (21.3)	6.0 (19.7)	20
1000	7.0 (23.0)	6.5 (21.2)	20
1200		7.2 (23.7)	18
1450		8.0 (26.1)	18
1800		8.8 (29.0)	18
2200		9.8 (32.1)	18
2600		10.7 (35.2)	15
3000		11.7 (38.3)	15

Frequency MHz	CMP/CL2P Attenuation, Nominal dB/100 ft (dB/100 m)	CMP/CL2P SRL, Nominal dB
1	0.3 (1.0)	20
10	0.7 (2.3)	20
50	1.5 (4.9)	20
100	2.1 (6.9)	20
200	3.1 (10.2)	20
500	5.0 (16.4)	20
700	6.4 (21.0)	20
1000	7.3 (23.9)	20
2300	12.2 (40.0)	20
3000	14.3 (46.9)	20

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Coax RG-6, 80% Shield

CMP/CL2P



SPECIFICATIONS

SPECIFICATIONS	
Conductor	Solid bare copper clad steel
AWG (mm)	18 (1.02)
Inner Braid	34 AWG aluminum (80%)
Inner Shield	Aluminum/polyester/aluminum
Jacket	Low smoke PVC
Nominal Impedance Ohms	75
Nominal Velocity of Propagation %	85
Performance Compliance	UL® 13 UL 444 NFPA 262 RoHS-compliant/RoHS 2-compliant
NRTL Programs	UL, c(UL) Listed CMP
UL is a reaistered trademark of UL LLC.	

PART NUMBERS AND PHYSICAL CHARACTERISTICS

			Nominal [Diameter			
Listing	Part Number	Jacket Color	Inner Shield in (mm)	Overall in (mm)	Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet
CMP/CL2P	78-16C-91	White	0.17 (4.4)	0.23 (5.9)	21 (13.5)	1,000' Plywood reel	27

ELECTRICAL SPECIFICATIONS		
Frequency MHz	Attenuation, Nominal, Specification dB/100 ft (dB/100 m)	SRL, Nominal dB
1	0.3 (1.0)	20
10	0.7 (2.2)	20
50	1.5 (4.9)	20
100	2.1 (6.9)	20
200	3.1 (10.2)	20
500	5.0 (16.4)	20
700	6.4 (21.0)	20
1000	7.3 (23.9)	20
1450	8.6 (28.1)	20
1800	9.7 (31.9)	20
2300	12.2 (40.0)	20
3000	14.2 (46.6)	20

The Superior Essex RG-6, 80% Shield coaxial plenum cable is designed to support analog, digital and high-bandwidth technologies. Superior Essex maintains tight tolerances to cable diameter requirements of leading connector manufacturers.

APPLICATIONS

- HDTV, CATV and CCTV
- Two-way cable modems
- Extended bandwidth satellite service

FEATURES

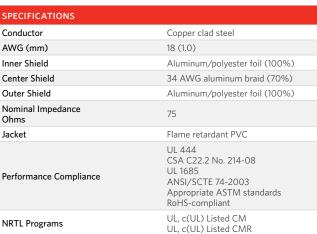
• "Future-proofing" the installation

- RG-6, 80% Shield coaxial cable with bandwidth that exceeds 2.2 GHz
- Tight foamed fluoropolymer insulating skin bonds around center conductor
- Natural white jacket color
- Exhibits better transmission characteristics
- Helps differentiate incoming service versus internal cabling infrastructure

ABLE OF CONTENTS

PREMISES CABLE

SPECIFICATIONS Conductor AWG (mm) Inner Shield Center Shield Outer Shield



PART NUMBERS AND PHYSICAL CHARACTERISTICS

Listing	Part Number	Jacket Color	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet
CM	78-11A-9R	White	0.28 (7.1)	32 (48)	1,000' Reel-in-a-Box	27
CM	79-11A-9R	Black	0.28 (7.1)	32 (48)	1,000' Reel-in-a-Box	27
CMR	79-11B-9R	Black	0.28 (7.1)	32 (48)	1,000' Reel-in-a-Box	27

ELECTRICAL SPECIFICATIONS

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ELECTRICAL SPECIFICATIONS	
Frequency MHz	Maximum Attenuation @ 68°F (20°C) dB/100 m
55	5.2
211	10.0
250	10.8
270	11.0
330	12.2
350	12.6
450	14.4
500	15.3
550	16.1
600	16.7
750	18.5
870	20.0
1000	21.5





A-107



PRODUCT DESCRIPTION

Superior Essex RG-6 Tri-Shield 70% braided coaxial cables exceed the requirements specified in ANSI/SCTE 74-2003. The shielding consists of an inner aluminum/polyester foil bonded to the insulation, an aluminum 34 AWG braid, and an outer aluminum/polyester foil. This RG-6 Tri-Shield will support such technologies as extended bandwidth satellite service, high definition TV signals, CATV and two-way cable modems.

APPLICATIONS

- HDTV
- Extended bandwidth satellite service

BENEFITS FFATURES • RG-6 (18 AWG copper clad · Standard and popular size steel center conductor) Available in CM Outdoor Indoor/outdoor use (60°C rated jacket) or CMR (75°C rated jacket) · Tri-Shield consists of inner · Added shielding for higher aluminum/polyester foil, service levels aluminum braid, outer aluminum/polyester foil

- Bonded inner foil
- 100% coverage over the 70% . (34 AWG aluminum) braiding
- Reel-in-a-Box design
- · White or black outer jacket (UV rated for exterior use)
- Stops moisture
- . Offers better shielding protection and stops interference
- Water-resistant package is easy . to carry and store
- Jacket color helps differentiate incoming versus internal cabling

Steel Conductor	
Insulation PE Foam	- (
Aluminum Foil Inner Shield	

Aluminum Foil Outer Shield Flame Retardant PVC Jacket

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SPECIFICATIONS	
Conductor	Copper clad steel
AWG (mm)	18 (1.02)
Inner Braid	34 AWG aluminum (60%)
Inner Shield	2.8 mil aluminum foil
Jacket	Flame retardant PVC
Nominal Impedance Ohms	75
Nominal Velocity of Propagation %	85
Performance Compliance	UL® 444 UL 1685 ANSI/SCTE 74-2003 RoHS-compliant/RoHS 2-compliant
NRTL Programs	UL, c(UL) Listed CM
UL is a registered trademark of ULLIC	

registered trademark of UL LLC

PART NUMBERS AND PHYSICAL CHARACTERISTICS

PRODUCT DESCRIPTION

Superior Essex RG-6, 60% Shield coaxial cables are designed to support analog, digital and high-bandwidth technologies. Superior Essex maintains tight tolerances to cable diameter requirements of leading connector manufacturers.

APPLICATIONS

- HDTV, CATV and CCTV
- Two-way cable modems
- Extended bandwidth satellite service

FEATURES

BENEFITS

- RG-6, 60% Shield Coaxial cable "Future-proofing" the installation . with bandwidth that exceeds 2.2 GHz
- Tight foamed polyethylene insulating skin bonds around center conductor
- Black and white jacket colors available
- Exhibits better transmission
- characteristics Helps differentiate incoming
- service versus internal cabling infrastructure

			Nominal	Diameter			
Listing	Part Number	Jacket Color	Inner Shield in (mm)	Overall in (mm)	Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet
CM	78-107-9P	White	0.18 (4.6)	0.28 (7.1)	21 (13.5)	1,000' POP™ box	20
CM	79-107-9P	Black	0.18 (4.6)	0.28 (7.1)	21 (13.5)	1,000' POP box	20
CM	78-107-91	White	0.18 (4.6)	0.28 (7.1)	21 (13.5)	1,000' Plywood reel	27
СМ	79-107-91	Black	0.18 (4.6)	0.28 (7.1)	21 (13.5)	1,000' Plywood reel	27

ELECTRICAL SPECIFICATIONS		
Frequency MHz	Attenuation, Nominal, Specification dB/100 ft (dB/100 m)	SRL, Nominal dB
55	6.04 (1.84)	20
211	11.6 (3.55)	20
250	12.6 (3.85)	20
270	13.1 (4.00)	20
330	14.5 (4.41)	20
350	14.9 (4.54)	20
450	16.9 (5.14)	20
500	17.7 (5.41)	20
550	18.6 (5.66)	20
600	19.4 (5.91)	20
750	21.6 (6.59)	20
870	23.2 (7.08)	20
1000	24.8 (7.57)	20
1200	27.1 (8.27)	17
1450	29.7 (9.05)	17
1800	32.9 (10.0)	17
2250	36.6 (11.2)	17



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PREMISES CABLE

What is an **Environmental Product Declaration (EPD)?**

An Environmental Product Declaration is a source of transparent, scientifically-based information that discloses the potential environmental impact of a product or product family. Superior Essex Environmental Product Declarations are verified by UL® Environment, a division of the safety science company Underwriters Laboratories.

Superior Essex provides premises copper and optical fiber cabling products with EPDs. Visit ce.SuperiorEssex.com/Enviro for more information.

Published HPD

Health Product

Declaration[™] Collaborative



What is a Health Product Declaration[™] (HPD[™])?

A Health Product Declaration is a **report that describes** product contents and each ingredient's relationship to human and ecological health. Superior Essex Health Product Declarations are published according to the Health Product Declaration Collaborative Standard.

Superior Essex provides premises copper and optical fiber cabling products with HPDs. Visit ce.SuperiorEssex.com/Enviro for more information.

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A-109

CMR/CL2R, CMP/CL2P



SPECIFICATIONS	
Conductor	Solid copper
AWG (mm)	20 (0.81)
Shield	Aluminum foil
Braid	Tinned copper (95%)
Jacket	Flame retardant PVC
Nominal Impedance Ohms	75.0
Nominal Velocity of Propagation %	CMR: 83 CMP: 84
Performance Compliance	UL® 13 UL 444 UL 1666 NEC Article 725 NEC Article 800 NFPA 262 RoHS-compliant/RoHS 2-compliant
NRTL Programs	UL, c(UL) Listed CMR UL, c(UL) Listed CMP

PRODUCT DESCRIPTION

Closed circuit security cameras use baseband frequencies, typically under 5 MHz. These applications are best suited for the bare copper center conductors of the Superior Essex RG-59 coaxial cable, which also features 95% tinned copper braiding. RG-59 is specifically designed for applications operating below 1 GHz, but will also support higher frequency applications at shorter distances than RG-6 coaxial cable.

APPLICATIONS

- CATV
- Video camera signals

FEATURES

- Small size
- Copper center conductor
- Foamed polyethylene dielectric (CMR) or fluoropolymer (CMP)
- Bonded aluminum shield tape
- 95% tinned copper braid
- Black and white jacket colors available for CMR version
- Suitable for tight applications and preferred for lower frequency signals
- Ideal for lower frequency signals
- Exhibits better transmission characteristics
- Blocks RFI

BENEFITS

- Ideal for lower frequency signals
- Helps differentiate incoming service versus internal cabling infrastructure

UL is a registered trademark of UL LLC.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Listing	Part Number	Jacket Color	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package	Packages per Pallet
CMR/CL2R	78-558-91	White	0.24 (6.1)	34 (50.7)	1,000' Plywood reel	25
CMR/CL2R	79-558-91	Black	0.24 (6.1)	34 (50.7)	1,000' Plywood reel	25
CMP/CL2P	78-55C-91	White	0.19 (5.1)	27 (12.0)	1,000' Plywood reel	25

ELECTRICAL SPECIFICATIONS

Frequency MHz	CMR/CL2R Attenuation, Nominal dB/100 ft (dB/100 m)	CMP/CL2P Attenuation, Nominal dB/100 ft (dB/100 m)
1	0.3 (1.0)	0.3 (1.0)
3.58	0.6 (1.8)	0.6 (2.0)
5	0.6 (2.1)	0.7 (2.3)
7	0.7 (2.4)	0.8 (2.7)
10	0.9 (2.9)	1.1 (3.4)
67.5	2.1 (6.7)	2.2 (7.2)
71.5	2.1 (6.9)	2.3 (7.4)
100	2.3 (7.6)	2.7 (8.9)
135	2.7 (8.9)	3.2 (10.5)
143	2.8 (9.1)	3.3 (10.7)
180	3.1 (10.2)	3.7 (12.0)
270	3.8 (12.5)	4.6 (14.9)
360	4.4 (14.5)	5.3 (17.2)
540	5.5 (17.9)	6.4 (21.0)
720	6.4 (20.9)	7.3 (23.9)
750	6.5 (21.3)	7.4 (24.3)
1000	7.6 (24.9)	9.4 (30.8)
2000	10.9 (35.8)	14.6 (47.8)
3000	13.3 (43.7)	18.8 (61.5)



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Coax RG-59, 95% Shield + 18/2

PRODUCT DESCRIPTION

Closed circuit security cameras use baseband frequencies, typically under 5 MHz. These applications are best suited for the bare copper center conductors of the Superior Essex RG-59 coaxial cable, which also features 95% bare copper braiding. RG-59 is specifically designed for applications operating below 1 GHz, but will also support higher frequency applications at shorter distances than RG-6 coaxial cable. This cable includes a web-attached 18 AWG copper pair to power camera.

APPLICATIONS

- CCTV with power feed
- Video camera signals

FEATURES

FEATURES	BENEFITS
Small size	 Suitable for tight applications and preferred for lower frequency signals
 Copper center conductor 	 Lower signal attenuation
Foamed fluoropolymer	Exhibits better transmission

- 95% bare copper braid
- Web-attached 18 AWG power-pairs
- characteristics
- Lower signal attenuation
- Single cable run for video and power feeds

Bare Copper Braid (95%) Dielectric	
Solid Bare Copper Conductor Low Smoke PVC Jacket	
Stranded Copper Conductor PVC Insulation	

COAX COMPONENT SPECIFICATIONS		
Conductor	Solid bare copper	
AWG (mm)	20 (0.82)	
Dielectric	Foamed fluoropolymer	
Braid	Bare copper (95% coverage)	
Nominal Velocity of Propagation %	80	
Nominal Impedance Ohms	75.0	
DC Resistance Ohms/kft	11.0	

COMPOSITE SPECIFICATIONS	
Jacket	Low smoke PVC
Performance Compliance	UL® 13 UL 444 NFPA 262 RoHS-compliant/RoHS 2-compliant
NRTL Programs	UL, c(UL) Listed CMP
UL is a registered trademark of UL LLC.	

POWER COMPONENT SPECIFICATIONS				
Conductor Count	2			
Conductor	Stranded copper			
AWG (mm)	18 (1.22)			
Insulation	Low smoke PVC			
Insulation Colors	Conductor 1: Black Conductor 2: Red			
DC Resistance Ohms/kft	7.0			

PART NUMBERS AND PHYSICAL CHARACTERISTICS Nominal Diameter Approx. Weight Packages lbs/kft (kg/km) Listing Part Number Jacket Color Package per Pallet in (mm) CMP/CL2P 86-57D-A1 White 0.36 (9.2) x 0.20 (5.0) 1,000' Plywood reel 47 (70.1) 27

-

ELECTRICAL SPECIFICATIONS	
Frequency MHz	CMP/CL2P Attenuation, Nominal dB/100 ft (dB/100 m)
1	0.35 (1.15)
10	1.04 (3.41)
100	3.25 (10.66)
200	4.63 (15.19)
400	7.12 (23.60)
700	9.97 (32.43)
900	10.79 (36.06)
1000	11.66 (38.25)

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Rev 7/15

Ed 13.0

A-111

Fire Alarm, Non-Shielded

Power Limited, Riser/Plenum

Solid Annealed

PVC Insulation PVC Jacket

Rip Cord

Copper Conductor



SPECIFICATIONS	
Conductor Count	Available with 2 through 8 conductors
Conductor	Fully annealed, solid bare copper
AWG (mm)	Available in 12 (2.05) through 22 (0.64)
Insulation	PVC
Insulation Colors	Conductor 1: Black Conductor 2: Red Conductor 3: Brown Conductor 4: Blue Conductor 5: Orange Conductor 5: Yellow Conductor 7: Violet Conductor 8: Gray
Jacket	Riser: Red, Flame Retardant (FR) PVC (Available in other jacket colors) Plenum: Red, Low smoke PVC (Available in other jacket colors)
Package	Black, ribbed, plastic recyclable spool, Reel-in-a-Box or wood reel
Performance Compliance	NEC Article 760 NEC Article 725 NEC Article 800 UL® 1424 FPLR/FPLP UL 13 CL3R/CL3P UL 444 CMR/CMP* UL 1666 NFPA 262 California State Fire Marshall RoHS-compliant/RoHS 2-compliant
NRTL Programs	UL Listed CMR, CL3R, FPLR UL Listed CMP, CL3P, FPLP

*CMR/CMP listing does not apply to 12 AWG and 14 AWG Superior Essex Fire Alarm cables. UL is a registered trademark of UL LLC.

ENVIRONMENTAL SPECIFICATIONS	
Operation	-4°F to +167°F (-20°C to +75°C)
Installation	+32°F to +149°F (0°C to +65°C)

PRODUCT DESCRIPTION

Fire Alarm cables are used for a variety of life safety devices, and are required to comply with many codes and standards. Superior Essex has grouped its fire alarm cable products into just two categories for simplicity: riser and plenum. All riser listed fire alarm cables provide full compliance to NEC Article 760, NEC Article 725, FPLR and CL3R. All plenum listed fire alarm cables provide compliance to NEC Article 760, NEC Article 725, FPLP and CL3P. These cables are offered in a wide range of conductor counts and gauges. All cables are power limited rated for 300V.

APPLICATIONS

- Smoke detectors
- Alarm notification
- Strobes
- Sirens

FEATURES

- Pull stations
 Addressable control system
- Addressable control systems
- Circuits controlled and powered by the fire alarm system
- Sprinkler and sprinkler supervisory systems

BENEFITS

•	Red color jacket (standard)	•	Identified as universal fire alarm cable
•	Non-plenum, riser rated	•	Simplifies selection with multiple listings (FPL, FPLR, CL3R and CMR*)
•	Plenum rated	•	Simplifies selection with multiple listings (FPLP, CL3P and CMP*)
•	Jacket rip cord	•	Easy to open; saves cable preparation time
•	CableID [®] alpha numeric code printed every 2 feet	•	Allows both ends of a cable run to be easily identifiable without the need to separately label or tone the cable
			Saves on installation time

- QuickCount[®] marking system in feet and meters
- Black, plastic recyclable spool packaging (standard)
- Saves on installation time
- Provides remaining length of cable on spool resulting in less scrap
- Robust and easy to handle



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Listing	Part Number ¹	Conductor Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight Ibs/kft (kg/km)
FPLR/CL3R	2F-41x-91	2	12 (2.05)	0.23 (5.8)	49 (73)
FPLR/CL3R	2F-42x-91	3	12 (2.05)	0.25 (6.2)	73 (33)
FPLR/CL3R	2F-31x-91	2	14 (1.63)	0.20 (5.1)	33 (49)
FPLR/CL3R	2F-32x-91	3	14 (1.63)	0.21 (5.4)	46 (20)
FPLR/CL3R	2F-33x-91	4	14 (1.63)	0.25 (6.4)	66 (99)
PLR/CL3R/CMR	2F-21x-91	2	16 (1.29)	0.17 (4.3)	23 (34)
PLR/CL3R/CMR	2F-22x-91	3	16 (1.29)	0.18 (4.6)	32 (14)
PLR/CL3R/CMR	2F-23x-91	4	16 (1.29)	0.20 (5.1)	42 (63)
PLR/CL3R/CMR	2F-11x-91	2	18 (1.02)	0.15 (3.8)	16 (24)
PLR/CL3R/CMR	2F-12x-91	3	18 (1.02)	0.16 (4.1)	22 (9)
PLR/CL3R/CMR	2F-13x-91	4	18 (1.02)	0.17 (4.3)	29 (43)
PLR/CL3R/CMR	2F-14x-91	6	18 (1.02)	0.21 (5.3)	42 (63)
PLR/CL3R/CMR	2F-51x-91	2	22 (0.64)	0.12 (3.0)	8 (12)
PLR/CL3R/CMR	2F-52x-91	3	22 (0.64)	0.13 (3.3)	10 (4)
PLR/CL3R/CMR	2F-53x-91	4	22 (0.64)	0.14 (3.6)	14 (21)
FPLP/CL3P	2F-41x-93	2	12 (2.05)	0.23 (5.8)	50 (74)
FPLP/CL3P	2F-31x-93	2	14 (1.63)	0.20 (5.1)	34 (51)
FPLP/CL3P	2F-32x-93	3	14 (1.63)	0.21 (5.4)	47 (21)
FPLP/CL3P	2F-33x-93	4	14 (1.63)	0.23 (5.8)	64 (95)
PLP/CL3P/CMP	2F-21x-93	2	16 (1.29)	0.17 (4.3)	24 (36)
PLP/CL3P/CMP	2F-22x-93	3	16 (1.29)	0.18 (4.6)	33 (14)
PLP/CL3P/CMP	2F-23x-93	4	16 (1.29)	0.20 (5.1)	43 (64)
PLP/CL3P/CMP	2F-11x-93	2	18 (1.02)	0.15 (3.8)	17 (25)
PLP/CL3P/CMP	2F-12x-93	3	18 (1.02)	0.16 (4.1)	23 (10)
PLP/CL3P/CMP	2F-13x-93	4	18 (1.02)	0.17 (4.3)	29 (43)
PLP/CL3P/CMP	2F-14x-93	6	18 (1.02)	0.21 (5.3)	43 (64)
PLP/CL3P/CMP	2F-15x-93	8	18 (1.02)	0.23 (5.8)	56 (83)
PLP/CL3P/CMP	2F-51x-93	2	22 (0.64)	0.12 (3.0)	9 (13)
PLP/CL3P/CMP	2F-52x-93	3	22 (0.64)	0.13 (3.3)	11 (4)
FPLP/CL3P/CMP	2F-53x-93	4	22 (0.64)	0.14 (3.6)	15 (22)

Additional jacket colors are available.

PACKAGING OPTIONS

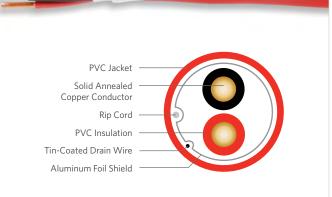
	Plastic	Spool	Reel-in-	a-Box	Wood Reel	Shrink Wrap	
	1,000'	500'	1,000'	500'	1,000'	250'	500'
¹ Replace "x' with:	2	3	4	5	6	7	8

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Fire Alarm, Shielded

Power Limited, Riser/Plenum



SPECIFICATIO

SPECIFICATIONS	
Conductor Count	Available with 2 through 6 conductors
Conductor	Fully annealed, solid bare copper
AWG (mm)	Available in 12 (2.05) through 22 (0.64)
Insulation	PVC
Insulation Colors	Conductor 1: Black Conductor 2: Red Conductor 3: Brown Conductor 4: Blue Conductor 5: Orange Conductor 6: Yellow Conductor 7: Violet Conductor 8: Gray
Shield	1-mil overall aluminum polyester foil shield with 24 AWG (0.51 mm) solid tinned copper drain wire
Jacket	Riser: Red, Flame Retardant (FR) PVC (Available in other jacket colors) Plenum: Red, Low smoke PVC (Available in other jacket colors)
Package	Black, ribbed, plastic recyclable spool, Reel-in-a-Box or wood reel
Performance Compliance	NEC Article 760 NEC Article 725 NEC Article 800 UL® 1424 FPLR/FPLP UL 13 CL3R/CL3P UL 444 CMR/CMP* UL 1666 NFPA 262 California State Fire Marshall RoHS-compliant/RoHS 2-compliant
NRTL Programs	UL Listed CMR, CL3R, FPLR UL Listed CMP, CL3P, FPLP

*CMR/CMP listing does not apply to 12 AWG and 14 AWG Superior Essex Fire Alarm cables. UL is a registered trademark of UL LLC.

ENVIRONMENTAL SPECIFICATIONS	
Operation	-4°F to +167°F (-20°C to +75°C)
Installation	+32°F to +149°F (0°C to +65°C)

PRODUCT DESCRIPTION

Fire Alarm cables are used for a variety of life safety devices, and are required to comply with many codes and standards. Superior Essex has grouped its fire alarm cable products into just two categories for simplicity: riser and plenum. All riser listed fire alarm cables provide full compliance to NEC Article 760, NEC Article 725, FPLR and CL3R. All plenum listed fire alarm cables provide compliance to NEC Article 760, NEC Article 725, FPLP and CL3P. These cables are offered in a wide range of conductor counts and gauges. All cables are power limited rated for 300V.

APPLICATIONS

- Smoke detectors
- Alarm notification
- Strobes
- Sirens

FEATURES

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Shielded

- Pull stations
- Addressable control systems

Black, plastic recyclable spool

packaging (standard)

- · Circuits controlled and powered by the fire alarm system
- Sprinkler and sprinkler supervisory systems

BENEFITS

Red	color jacket (standard)	•	Identified as universal fire alarm cable
• Non-	plenum, riser rated	•	Simplifies selection with multiple listings (FPL, FPLR, CL3R and CMR*)
 Plenu 	um rated	•	Simplifies selection with multiple listings (FPLP, CL3P and CMP*)
 Jacke 	et rip cord	•	Easy to open; saves cable preparation time
	elD® alpha numeric code ed every 2 feet		Allows both ends of a cable run to be easily identifiable without the need to separately label or tone the cable
		•	Saves on installation time
-	kCount® marking system et and meters	•	Provides remaining length of cable on spool resulting in less scrap

- Robust and easy to handle
- Robust and easy to handle
- Electromagnetic Interference
 (EMI) protection



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Listing	Part Number ¹	Conductor Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)
FPLR/CL3R	2F-41x-92	2	12 (2.05)	0.24 (6.1)	51 (76)
FPLR/CL3R	2F-31x-92	2	14 (1.63)	0.21 (5.3)	36 (54)
FPLR/CL3R	2F-32x-92	3	14 (1.63)	0.22 (5.7)	49 (22)
FPLR/CL3R	2F-33x-92	4	14 (1.63)	0.24 (6.1)	65 (97)
PLR/CL3R/CMR	2F-21x-92	2	16 (1.29)	0.18 (4.6)	25 (37)
PLR/CL3R/CMR	2F-22x-92	3	16 (1.29)	0.19 (4.9)	35 (15)
PLR/CL3R/CMR	2F-23x-92	4	16 (1.29)	0.21 (5.3)	44 (65)
PLR/CL3R/CMR	2F-11x-92	2	18 (1.02)	0.16 (4.1)	18 (27)
PLR/CL3R/CMR	2F-12x-92	3	18 (1.02)	0.17 (4.3)	25 (11)
PLR/CL3R/CMR	2F-13x-92	4	18 (1.02)	0.18 (4.6)	31 (46)
PLR/CL3R/CMR	2F-14x-92	6	18 (1.02)	0.22 (5.6)	44 (65)
PLR/CL3R/CMR	2F-51x-92	2	22 (0.64)	0.13 (3.3)	10 (15)
PLR/CL3R/CMR	2F-52x-92	3	22 (0.64)	0.14 (3.5)	13 (5)
PLR/CL3R/CMR	2F-53x-92	4	22 (0.64)	0.15 (3.8)	16 (24)
FPLP/CL3P	2F-41x-94	2	12 (2.05)	0.24 (6.1)	53 (79)
FPLP/CL3P	2F-42x-94	3	12 (2.05)	0.26 (6.5)	76 (34)
FPLP/CL3P	2F-31x-94	2	14 (1.63)	0.21 (5.3)	36 (54)
FPLP/CL3P	2F-32x-94	3	14 (1.63)	0.22 (5.7)	50 (22)
FPLP/CL3P	2F-33x-94	4	14 (1.63)	0.24 (6.1)	66 (98)
PLP/CL3P/CMP	2F-21x-94	2	16 (1.29)	0.18 (4.6)	26 (39)
PLP/CL3P/CMP	2F-22x-94	3	16 (1.29)	0.19 (4.9)	35 (15)
PLP/CL3P/CMP	2F-23x-94	4	16 (1.29)	0.21 (5.3)	45 (67)
PLP/CL3P/CMP	2F-11x-94	2	18 (1.02)	0.16 (4.1)	19 (28)
PLP/CL3P/CMP	2F-12x-94	3	18 (1.02)	0.17 (4.3)	25 (11)
PLP/CL3P/CMP	2F-13x-94	4	18 (1.02)	0.18 (4.6)	32 (48)
PLP/CL3P/CMP	2F-14x-94	6	18 (1.02)	0.22 (5.6)	45 (67)
PLP/CL3P/CMP	2F-51x-94	2	22 (0.64)	0.13 (3.3)	11 (16)
PLP/CL3P/CMP	2F-52x-94	3	22 (0.64)	0.14 (3.5)	13 (5)
PLP/CL3P/CMP	2F-53x-94	4	22 (0.64)	0.15 (3.8)	17 (25)

Additional jacket colors are available.

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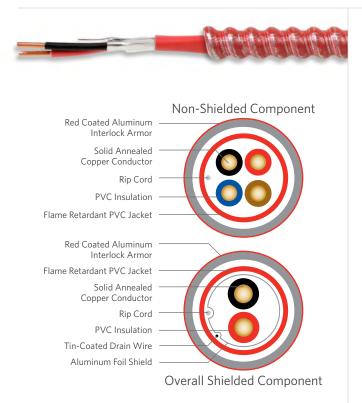
PACKAGING OPTIONS								
	Plastic	ic Spool Reel-in-a-Box			Wood Reel	Shrink Wrap		
	1,000'	500'	1,000'	500'	1,000'	250'	500'	
¹ Replace "x' with:	2	3	4	5	6	7	8	

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Interlock Armored

Fire Alarm Riser



SPECIFICATIONS	
Overall Cable Configuration	Single component cable surrounded by red aluminum interlock armor
Component Jacket	Red, Flame Retardant PVC
Armor	Red, interlocked aluminum
Performance Compliance	NEC Article 760 NEC Article 725 NEC Article 800 UL® 1424 FPLR UL 13 CL3R UL 444 CMR* UL 1666 UL 1569, Sections 19 and 23 California State Fire Marshall RoHS-compliant/RoHS 2-compliant
NRTL Programs	UL Listed FPLR, CL3R, CMR

*CMR listing does not apply to 12 AWG and 14 AWG Superior Essex Fire Alarm cables. UL is a registered trademark of UL LLC.

ENVIRONMENTAL SPECIFICATIONS

Operation	-4°F to +167°F (-20°C to +75°C)
Installation	+32°F to +149°F (0°C to +65°C)

PRODUCT DESCRIPTION

Superior Essex has a full line of fire alarm riser rated cables with red interlocked aluminum armor. The addition of aluminum interlock armor over the red jacketed fire alarm cable provides significant mechanical protection and installation savings; adding the interlock armor eliminates the requirement for rigid, expensive pipes or conduits. These cables are available in both shielded and non-shielded versions with a wide range of conductor counts and gauges. The fire alarm cables with interlock armor can be used for a variety of life safety devices such as sirens, smoke detectors, and control systems. Together the cable and the interlocking armor provide multiple compliance levels, including NEC Article 760 (FPLR), NEC Article 725 (CL3R), and NEC Article 800 (CMR). All fire alarm cables are power limited rated for 300V. Each individual cable is retested after adding the interlock armoring to ensure all applicable industry requirements are met.

APPLICATIONS

- Smoke detectors
- Alarm notification
- Strobes
- Sirens
- Pull stations
- Addressable control systems
- Circuits controlled and powered by the fire alarm system
- Sprinkler and sprinkler supervisory systems

FEATURES

•	Red aluminum interlock armor	•	Protects against mechanical stress and EMI/RFI for ensured and reliable performance
•	Installed directly from reel	•	Faster installation; fewer tools/equipment and less labor is required
•	50% cost savings	•	Saves labor and installation time; rigid conduit and pipes not necessary; finish job faster
•	Aluminum interlock armor can be removed	•	Maintains the fire rating even after interlock armor is removed

BENEFITS





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Listing	Part Number	Conductor Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package
		N	on-Shielded Compone	nt		
FPLR/CL3R	K2F-419-91	2	12 (2.05)	0.50 (12.7)	83 (124)	1,000' Wood ree
FPLR/CL3R	K2F-429-91	3	12 (2.05)	0.50 (12.7)	107 (159)	1,000' Wood ree
FPLR/CL3R	K2F-319-91	2	14 (1.63)	0.50 (12.7)	67 (100)	1,000' Wood re
FPLR/CL3R	K2F-329-91	3	14 (1.63)	0.50 (12.7)	80 (119)	1,000' Wood ree
FPLR/CL3R	K2F-339-91	4	14 (1.63)	0.50 (12.7)	100 (149)	1,000' Wood ree
PLR/CL3R/CMR	K2F-219-91	2	16 (1.29)	0.50 (12.7)	57 (85)	1,000' Wood re
PLR/CL3R/CMR	K2F-229-91	3	16 (1.29)	0.50 (12.7)	66 (98)	1,000' Wood ree
PLR/CL3R/CMR	K2F-239-91	4	16 (1.29)	0.50 (12.7)	76 (113)	1,000' Wood re
PLR/CL3R/CMR	K2F-119-91	2	18 (1.02)	0.50 (12.7)	50 (74)	1,000' Wood re
PLR/CL3R/CMR	K2F-129-91	3	18 (1.02)	0.50 (12.7)	56 (83)	1,000' Wood re
PLR/CL3R/CMR	K2F-139-91	4	18 (1.02)	0.50 (12.7)	63 (94)	1,000' Wood re
PLR/CL3R/CMR	K2F-519-91	2	22 (0.64)	0.50 (12.7)	42 (63)	1,000' Wood re
PLR/CL3R/CMR	K2F-529-91	3	22 (0.64)	0.50 (12.7)	44 (66)	1,000' Wood re
PLR/CL3R/CMR	K2F-539-91	4	22 (0.64)	0.50 (12.7)	48 (71)	1,000' Wood re
		Ov	erall Shielded Compor	ient		
FPLR/CL3R	K2F-419-92	2	12 (2.05)	0.50 (12.7)	85 (127)	1,000' Wood re
FPLR/CL3R	K2F-319-92	2	14 (1.63)	0.50 (12.7)	70 (104)	1,000' Wood re
FPLR/CL3R	K2F-329-92	3	14 (1.63)	0.50 (12.7)	83 (124)	1,000' Wood re
FPLR/CL3R	K2F-339-92	4	14 (1.63)	0.50 (12.7)	99 (147)	1,000' Wood re
PLR/CL3R/CMR	K2F-219-92	2	16 (1.29)	0.50 (12.7)	59 (88)	1,000' Wood re
PLR/CL3R/CMR	K2F-229-92	3	16 (1.29)	0.50 (12.7)	69 (103)	1,000' Wood re
PLR/CL3R/CMR	K2F-239-92	4	16 (1.29)	0.50 (12.7)	78 (116)	1,000' Wood ree
PLR/CL3R/CMR	K2F-119-92	2	18 (1.02)	0.50 (12.7)	52 (77)	1,000' Wood re
PLR/CL3R/CMR	K2F-129-92	3	18 (1.02)	0.50 (12.7)	59 (88)	1,000' Wood re
PLR/CL3R/CMR	K2F-139-92	4	18 (1.02)	0.50 (12.7)	65 (97)	1,000' Wood re
PLR/CL3R/CMR	K2F-519-92	2	22 (0.64)	0.50 (12.7)	44 (66)	1,000' Wood re
PLR/CL3R/CMR	K2F-529-92	3	22 (0.64)	0.50 (12.7)	47 (70)	1,000' Wood re
PLR/CL3R/CMR	K2F-539-92	4	22 (0.64)	0.50 (12.7)	50 (74)	1,000' Wood ree

Additional cable combinations are available. Other color sequences available upon request.

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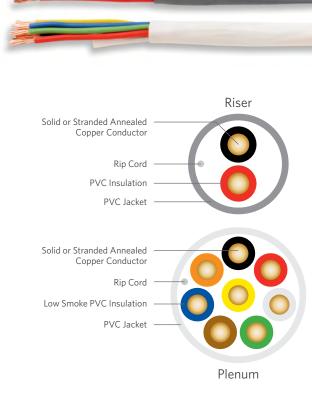
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Security Control, Non-Shielded

Power Limited, Riser/Plenum



PRODUCT DESCRIPTION

Security Control cables are used for a variety of building control and audio applications. The non-shielded security control cable series is ideal for environments where electromagnetic interference (EMI) is not a concern or the cable is not required to be grounded. All riser listed security control cables provide compliance to NEC Article 725, NEC Article 760, CL3R and FPLR. All plenum listed security control cables provide compliance to NEC Article 725, NEC Article 760, CL3P and FPLP. All security control cables are power limited rated for 300V.

APPLICATIONS

- Intercom
- Security
- Audio, public address system, speakers
- Burglar alarm system
- Telephone stations
- Background music
- Sensors

FEATURES

	521121110
Non-plenum, riser rated	 Simplifies selection with multiple listings (CL3R, CMR*, FPL and FPLR)
Plenum rated	 Simplifies selection with multiple listings (CL3P, CMP* and FPLP)
Jacket rip cord	 Easy to open; saves cable preparation time
 CableID[®] alpha numeric code printed every 2 feet 	 Allows both ends of a cable run to be easily identifiable without the need to separately label or tone the cable Saves on installation time
 QuickCount[®] marking system in feet and meters 	 Provides remaining length of cable on spool resulting in less scrap
 Black, plastic recyclable spool 	 Robust and easy to handle

BENEFITS

• Black, plastic recyclable spool packaging (standard)

ENVIRONMENTAL SPECIFICATIONS

Operation	-4°F to +167°F (-20°C to +75°C)
Installation	+32°F to +149°F (0°C to +65°C)

SPECIFICATIONS	
Conductor Count	Available with 2 through 12 conductors
Conductor	Fully annealed, solid or stranded bare copper
AWG (mm)	Available in 12 (2.05) through 22 (0.64)
Insulation	Low smoke PVC
Insulation Colors	Conductor 1: Black Conductor 2: Red Conductor 3: White Conductor 5: Brown Conductor 5: Brown Conductor 6: Blue Conductor 7: Orange Conductor 7: Violet Conductor 9: Violet Conductor 10: Gray Conductor 11: Pink Conductor 12: Tan
Jacket	Riser: Gray, Flame Retardant (FR) PVC (Available in other jacket colors) Plenum: White, Low smoke PVC (Available in other jacket colors)
Package	Black, ribbed, plastic recyclable spool, Reel-in-a-Box or wood reel
Performance Compliance	NEC Article 725 NEC Article 760 UL® 13 CL3R/CL3P UL 444 CMR/CMP* UL 1424 FPLR/FPLP UL 1666 NFPA 262 California State Fire Marshall RoHS-compliant/RoHS 2-compliant
NRTL Programs	UL Listed CL3R, CMR, FPLR UL Listed CL3P, CMP, FPLP

*CMR/CMP listing does not apply to 12 AWG and 14 AWG Superior Essex Security Control cables. UL is a registered trademark of UL LLC.





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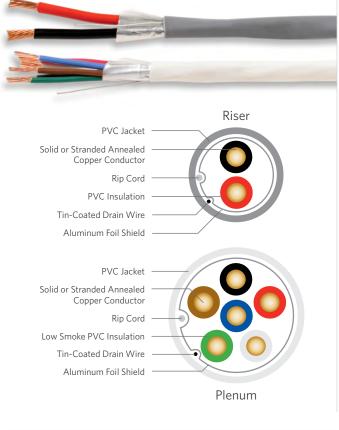
	· ·			• • • =		Nominal Diameter	Approx. Weigh
Listing	Part Number ¹	Conductor Count	AWG (mm)	Conductor Type	Jacket Color ²	in (mm)	lbs/kft (kg/km
CL3R/FPLR	2F-F1x-31	2	12 (2.05)	19 x 0.0185	Gray	0.25 (6.4)	51 (76)
CL3R/FPLR	2F-F2x-31	3	12 (2.05)	19 x 0.0185	Gray	0.27 (6.8)	77 (34)
CL3R/FPLR	2F-E1x-31	2	14 (1.85)	19 x 0.0147	Gray	0.22 (5.6)	34 (51)
CL3R/FPLR	2F-E2x-31	3	14 (1.85)	19 x 0.0147	Gray	0.23 (6.0)	47 (21)
CL3R/FPLR	2F-E3x-31	4	14 (1.85)	19 x 0.0147	Gray	0.25 (6.4)	64 (95)
CL3R/CMR/FPLR	2F-D1x-31	2	16 (1.46)	19 x 0.0117	Gray	0.19 (4.8)	24 (36)
CL3R/CMR/FPLR	2F-D2x-31	3	16 (1.46)	19 x 0.0117	Gray	0.20 (5.1)	32 (14)
CL3R/CMR/FPLR	2F-D3x-31	4	16 (1.46)	19 x 0.0117	Gray	0.22 (5.6)	43 (64)
CL3R/CMR/FPLR	2F-C1x-31	2	18 (1.16)	7 x 26 AWG	Gray	0.16 (4.1)	17 (25)
CL3R/CMR/FPLR	2F-C2x-31	3	18 (1.16)	7 x 26 AWG	Gray	0.17 (4.3)	22 (9)
CL3R/CMR/FPLR	2F-C3x-31	4	18 (1.16)	7 x 26 AWG	Gray	0.19 (4.8)	30 (45)
CL3R/CMR/FPLR	2F-C4x-31	6	18 (1.16)	7 x 26 AWG	Gray	0.23 (5.8)	43 (64)
CL3R/CMR/FPLR	2F-C5x-31	8	18 (1.16)	7 x 26 AWG	Gray	0.25 (6.4)	56 (83)
CL3R/CMR/FPLR	2F-C7x-31	12	18 (1.16)	7 x 26 AWG	Gray	0.30 (7.6)	83 (124)
CL3R/CMR/FPLR	2F-B1x-31	2	20 (0.92)	7 x 28 AWG	Gray	0.14 (3.6)	12 (18)
CL3R/CMR/FPLR	2F-B2x-31	3	20 (0.92)	7 x 28 AWG	Gray	0.15 (3.8)	15 (6)
CL3R/CMR/FPLR	2F-B3x-31	4	20 (0.92)	7 x 28 AWG	Gray	0.16 (4.1)	21 (31)
CL3R/CMR/FPLR	2F-A1x-31	2	22 (0.73)	7 x 30 AWG	Gray	0.13 (3.3)	9 (13)
CL3R/CMR/FPLR	2F-A2x-31	3	22 (0.73)	7 x 30 AWG	Gray	0.14 (3.5)	11 (4)
CL3R/CMR/FPLR	2F-A3x-31	4	22 (0.73)	7 x 30 AWG	Gray	0.15 (3.8)	15 (22)
CL3R/CMR/FPLR	2F-A4x-31	6	22 (0.73)	7 x 30 AWG	Gray	0.18 (4.6)	21 (31)
CL3R/CMR/FPLR	2F-A5x-31	8	22 (0.73)	7 x 30 AWG	Gray	0.19 (4.8)	28 (42)
CL3R/CMR/FPLR	2F-A6x-31	10	22 (0.73)	7 x 30 AWG	Gray	0.22 (5.6)	34 (51)
CL3R/CMR/FPLR	2F-A7x-31	12	22 (0.73)	7 x 30 AWG	Gray	0.23 (5.8)	40 (60)
CL3R/CMR/FPLR	2F-51x-31	2	22 (0.64)	Solid	Gray	0.12 (3.0)	8 (12)
CL3R/CMR/FPLR	2F-52x-31	3	22 (0.64)	Solid	Gray	0.13 (3.3)	10 (4)
CL3R/CMR/FPLR	2F-53x-31	4	22 (0.64)	Solid	Gray	0.14 (3.6)	14 (21)
CL3P/FPLP	2F-F1x-43	2	12 (2.05)	19 x 0.0185	White	0.25 (6.4)	52 (77)
CL3P/FPLP	2F-F2x-43	3	12 (2.05)	19 x 0.0185	White	0.27 (6.8)	78 (35)
CL3P/FPLP	2F-E1x-43	2	14 (1.85)	19 x 0.0147	White	0.22 (5.6)	35 (52)
CL3P/FPLP	2F-E2x-43	3	14 (1.85)	19 x 0.0147	White	0.23 (6.0)	48 (21)
CL3P/FPLP	2F-E3x-43	4	14 (1.85)	19 x 0.0147	White	0.25 (6.4)	65 (97)
CL3P/CMP/FPLP	2F-D1x-43	2	16 (1.46)	19 x 0.0117	White	0.19 (4.8)	24 (36)
CL3P/CMP/FPLP	2F-D2x-43	3	16 (1.46)	19 x 0.0117	White	0.20 (5.1)	32 (14)
CL3P/CMP/FPLP	2F-D3x-43	4	16 (1.46)	19 x 0.0117	White	0.22 (5.6)	44 (65)
CL3P/CMP/FPLP	2F-C1x-43	2	18 (1.16)	7 x 26 AWG	White	0.16 (4.1)	17 (25)
CL3P/CMP/FPLP	2F-C2x-43	3	18 (1.16)	7 x 26 AWG	White	0.17 (4.3)	22 (9)
CL3P/CMP/FPLP	2F-C3x-43	4	18 (1.16)	7 x 26 AWG	White	0.19 (4.8)	30 (45)
CL3P/CMP/FPLP	2F-C4x-43	6	18 (1.16)	7 x 26 AWG	White	0.23 (5.8)	44 (65)
CL3P/CMP/FPLP	2F-C5x-43	8	18 (1.16)	7 x 26 AWG	White	0.25 (6.4)	57 (85)
CL3P/CMP/FPLP	2F-C7x-43	12	18 (1.16)	7 x 26 AWG	White	0.30 (7.6)	85 (126)
CL3P/CMP/FPLP	2F-B1x-43	2	20 (0.92)	7 x 28 AWG	White	0.14 (3.6)	13 (19)
CL3P/CMP/FPLP	2F-B2x-43	3	20 (0.92)	7 x 28 AWG	White	0.15 (3.8)	16 (7)
CL3P/CMP/FPLP	2F-B3x-43	4	20 (0.92)	7 x 28 AWG	White	0.16 (4.1)	22 (33)
CL3P/CMP/FPLP	2F-A1x-43	2	22 (0.73)	7 x 30 AWG	White	0.13 (3.3)	9 (13)
CL3P/CMP/FPLP	2F-A2x-43	3	22 (0.73)	7 x 30 AWG	White	0.14 (3.5)	11 (4)
CL3P/CMP/FPLP	2F-A3x-43	4	22 (0.73)	7 x 30 AWG	White	0.15 (3.8)	16 (24)
CL3P/CMP/FPLP	2F-A4x-43	6	22 (0.73)	7 x 30 AWG	White	0.18 (4.6)	22 (33)
CL3P/CMP/FPLP	2F-A5x-43	8	22 (0.73)	7 x 30 AWG	White	0.19 (4.8)	28 (42)
CL3P/CMP/FPLP	2F-A6x-43	10		7 x 30 AWG	White		
	2F-A6x-43 2F-A7x-43	10	22 (0.73)	7 x 30 AWG	White	0.22 (5.6)	35 (52)
			22 (0.73)			0.23 (5.8)	41 (61) 9 (13)
CL3P/CMP/FPLP	2F-51x-43	2	22 (0.64)	Solid	White	0.12 (3.0)	9 (13)
CL3P/CMP/FPLP	2F-52x-43	3	22 (0.64)	Solid	White	0.13 (3.3)	11 (4)
CL3P/CMP/FPLP	2F-53x-43 e available.	4	22 (0.64)	Solid	White	0.14 (3.6)	15 (22)

PACKAGING OPTIONS							
	Plastic Spool		Reel-in-	a-Box	Wood Reel	Shrink Wrap	
	1,000'	500'	1,000'	500'	1,000'	250'	500'
¹ Replace "x' with:	2	3	4	5	6	7	8



Security Control, Shielded

Power Limited, Riser/Plenum



SPECIFICATIONS	
Conductor Count	Available with 2 through 12 conductors
Conductor	Fully annealed, solid or stranded bare copper
AWG (mm)	Available in 12 (2.05) through 22 (0.64)
Insulation	PVC
Insulation Colors	Conductor 1: Black Conductor 2: Red Conductor 3: White Conductor 4: Green Conductor 5: Brown Conductor 6: Blue Conductor 7: Orange Conductor 7: Violet Conductor 9: Violet Conductor 10: Gray Conductor 11: Pink Conductor 12: Tan
Shield	1-mil overall aluminum polyester foil shield with 24 AWG (0.51 mm) solid tinned copper drain wire
Jacket	Riser: Gray, Flame Retardant (FR) PVC (Available in other jacket colors) Plenum: White, Low smoke PVC (Available in other jacket colors)
Package	Black, ribbed, plastic recyclable spool, Reel-in-a-Box or wood reel
Performance Compliance	NEC Article 725 NEC Article 800 NEC Article 760 UL® 13 CL3R/CL3P UL 444 CMR/CMP* UL 1424 FPLR/FPLP UL 1666 NFPA 262 California State Fire Marshall RoHS-compliant/RoHS 2-compliant
NRTL Programs	UL Listed CL3R, CMR, FPLR

*CMR/CMP listing does not apply to 12 AWG and 14 AWG Superior Essex Security Control cables.

Insulation Colors	Conductor 2: Red Conductor 3: White Conductor 4: Green Conductor 5: Brown Conductor 6: Blue Conductor 7: Orange Conductor 8: Yellow Conductor 9: Violet Conductor 9: Violet Conductor 10: Gray Conductor 11: Pink Conductor 12: Tan
Shield	1-mil overall aluminum polyester foil shield with 24 AWG (0.51 mm) solid tinned copper drain wire
Jacket	Riser: Gray, Flame Retardant (FR) PVC (Available in other jacket colors) Plenum: White, Low smoke PVC (Available in other jacket colors)
Package	Black, ribbed, plastic recyclable spool, Reel-in-a-Box or wood reel
Performance Compliance	NEC Article 725 NEC Article 800 NEC Article 760 UL® 13 CL3R/CL3P UL 444 CMR/CMP* UL 1424 FPLR/FPLP UL 1666 NFPA 262 California State Fire Marshall RoHS-compliant/RoHS 2-compliant
NRTL Programs	UL Listed CL3R, CMR, FPLR UL Listed CL3P, CMP, FPLP

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SEX.



All information, content, data, specifications, packaging and part numbers detailed herein are subject to change. For the most up-to-date information, please visit SuperiorEssex.com. Purchase of this product is subject exclusively to the then current **SuperiorEssex.International LP Terms and Conditions of Sale for Communications and Energy Cable, Wire and Connectivity Products**, which can be found on our website, SuperiorEssex.com, or provided to you upon request.

PRODUCT DESCRIPTION

Security Control cables are used for a variety building control and audio applications. The security control, shielded cable series is ideal for environments where electromagnetic interference (EMI) is a concern or the cable is required to be grounded. All riser listed security control cables provide compliance to NEC Article 725, NEC Article 760, CL3R and FPLR. All plenum listed security control cables provide compliance to NEC Article 725, NEC Article 760, CL3P and FPLP. All security control cables are power limited rated for 300V.

APPLICATIONS

- Intercom
- Security
- Audio, public address system, speakers .
- Burglar alarm system .
- Telephone stations .
- Background music .

FEATURES BENEFITS

•	Non-plenum, riser rated	•	Simplifies selection with multiple listings (CL3R, CMR*, FPL and FPLR)
•	Plenum rated	•	Simplifies selection with multiple listings (CL3P, CMP* and FPLP)
•	Jacket rip cord	•	Easy to open; saves cable preparation time
•	Overall shield	•	Electromagnetic Interference (EMI) protection
•	CableID [®] alpha numeric code printed every 2 feet	•	Allows both ends of a cable run to be easily identifiable without the need to separately label or tone the cable Saves on installation time
•	QuickCount [®] marking system in feet and meters	•	Provides remaining length of cable on spool resulting in less scrap
•	Black, plastic recyclable spool	•	Robust and easy to handle

B . packaging (standard)

ENVIRONMENTAL SPECIFICATIONS

Operation	-4°F to +167°F (-20°C to +75°C)
Installation	+32°F to +149°F (0°C to +65°C)



Listing CL3R/FPLR CL3R/FPLR CL3R/FPLR CL3R/CMR/FPLR CL3R/CMR/FPLR CL3R/CMR/FPLR CL3R/CMR/FPLR	Part Number ¹ 2F-F1x-32 2F-E1x-32 2F-E2x-32 2F-E3x-32	Conductor Count 2 2	AWG (mm) 12 (2.05)	Conductor Type	Jacket Color ²	in (mm)	lbs/kft (kg/km
CL3R/FPLR CL3R/FPLR CL3R/FPLR CL3R/CMR/FPLR CL3R/CMR/FPLR CL3R/CMR/FPLR	2F-E1x-32 2F-E2x-32		12 (2.05)				
CL3R/FPLR CL3R/FPLR CL3R/CMR/FPLR CL3R/CMR/FPLR CL3R/CMR/FPLR	2F-E2x-32	2		19 x 0.0185	Gray	0.26 (6.6)	53 (79)
CL3R/FPLR CL3R/CMR/FPLR CL3R/CMR/FPLR CL3R/CMR/FPLR			14 (1.85)	19 x 0.0147	Gray	0.23 (5.8)	36 (54)
CL3R/CMR/FPLR CL3R/CMR/FPLR CL3R/CMR/FPLR	2F-E3x-32	3	14 (1.85)	19 x 0.0147	Gray	0.25 (6.2)	49 (22)
CL3R/CMR/FPLR CL3R/CMR/FPLR		4	14 (1.85)	19 x 0.0147	Gray	0.26 (6.6)	66 (98)
CL3R/CMR/FPLR	2F-D1x-32	2	16 (1.46)	19 x 0.0117	Gray	0.20 (5.1)	26 (39)
	2F-D2x-32	3	16 (1.46)	19 x 0.0117	Gray	0.21 (5.4)	35 (15)
CL3R/CMR/FPLR	2F-D3x-32	4	16 (1.46)	19 x 0.0117	Gray	0.23 (5.8)	45 (67)
	2F-C1x-32	2	18 (1.16)	7 x 26 AWG	Gray	0.17 (4.3)	19 (28)
CL3R/CMR/FPLR	2F-C2x-32	3	18 (1.16)	7 x 26 AWG	Gray	0.18 (4.6)	24 (10)
CL3R/CMR/FPLR	2F-C3x-32	4	18 (1.16)	7 x 26 AWG	Gray	0.20 (5.1)	32 (48)
CL3R/CMR/FPLR	2F-C4x-32	6	18 (1.16)	7 x 26 AWG	Gray	0.24 (6.1)	45 (67)
CL3R/CMR/FPLR	2F-C5x-32	8	18 (1.16)	7 x 26 AWG	Gray	0.26 (6.6)	59 (88)
CL3R/CMR/FPLR	2F-C6x-32	10	18 (1.16)	7 x 26 AWG	Gray	0.29 (7.4)	72 (107)
CL3R/CMR/FPLR	2F-C7x-32	12	18 (1.16)	7 x 26 AWG	Gray	0.31 (7.9)	86 (128)
CL3R/CMR/FPLR	2F-B1x-32	2	20 (0.92)	7 x 28 AWG	Gray	0.15 (3.8)	14 (21)
L3R/CMR/FPLR	2F-B2x-32	3	20 (0.92)	7 x 28 AWG	Gray	0.16 (4.1)	18 (8)
CL3R/CMR/FPLR	2F-B3x-32	4	20 (0.92)	7 x 28 AWG	Gray	0.17 (4.3)	23 (34)
CL3R/CMR/FPLR	2F-A1x-32	2	22 (0.73)	7 x 30 AWG	Gray	0.14 (3.6)	11 (16)
CL3R/CMR/FPLR	2F-A2x-32	3	22 (0.73)	7 x 30 AWG	Gray	0.15 (3.8)	13 (5)
CL3R/CMR/FPLR	2F-A3x-32	4	22 (0.73)	7 x 30 AWG	Gray	0.16 (4.1)	17 (25)
CL3R/CMR/FPLR	2F-A4x-32	6	22 (0.73)	7 x 30 AWG	Gray	0.19 (4.8)	24 (36)
CL3R/CMR/FPLR	2F-A5x-32	8	22 (0.73)	7 x 30 AWG	Gray	0.20 (5.1)	30 (45)
CL3R/CMR/FPLR	2F-A6x-32	10	22 (0.73)	7 x 30 AWG	Gray	0.23 (5.8)	36 (54)
L3R/CMR/FPLR	2F-A7x-32	12	22 (0.73)	7 x 30 AWG	Gray	0.24 (6.1)	42 (63)
CL3R/CMR/FPLR	2F-51x-32	2	22 (0.64)	Solid	Gray	0.13 (3.3)	10 (15)
CL3R/CMR/FPLR	2F-52x-32	3	22 (0.64)	Solid	Gray	0.14 (3.5)	13 (5)
CL3P/FPLP	2F-F1x-44	2	12 (2.05)	19 x 0.0185	White	0.26 (6.6)	54 (80)
CL3P/FPLP	2F-F2x-44	3	12 (2.05)	19 x 0.0185	White	0.28 (7.0)	81 (36)
CL3P/FPLP	2F-E1x-44	2	14 (1.85)	19 x 0.0147	White	0.23 (5.8)	37 (55)
CL3P/FPLP	2F-E2x-44	3	14 (1.85)	19 x 0.0147	White	0.25 (6.2)	50 (22)
CL3P/FPLP	2F-E3x-44	4	14 (1.85)	19 x 0.0147	White	0.26 (6.6)	67 (100)
CL3P/CMP/FPLP	2F-D1x-44	2	16 (1.46)	19 x 0.0117	White	0.20 (5.1)	26 (39)
CL3P/CMP/FPLP	2F-D2x-44	3	16 (1.46)	19 x 0.0117	White	0.21 (5.4)	35 (15)
CL3P/CMP/FPLP	2F-D3x-44	4	16 (1.46)	19 x 0.0117	White	0.23 (5.8)	46 (68)
CL3P/CMP/FPLP	2F-C1x-44	2	18 (1.16)	7 x 26 AWG	White	0.17 (4.3)	19 (28)
CL3P/CMP/FPLP	2F-C2x-44	3	18 (1.16)	7 x 26 AWG	White	0.18 (4.6)	25 (11)
CL3P/CMP/FPLP	2F-C3x-44	4	18 (1.16)	7 x 26 AWG	White	0.20 (5.1)	33 (49)
CL3P/CMP/FPLP	2F-C4x-44	6	18 (1.16)	7 x 26 AWG	White	0.24 (6.1)	47 (70)
CL3P/CMP/FPLP	2F-C5x-44	8	18 (1.16)	7 x 26 AWG	White	0.26 (6.6)	60 (89)
CL3P/CMP/FPLP	2F-C7x-44	12	18 (1.16)	7 x 26 AWG	White	0.31 (7.9)	87 (129)
CL3P/CMP/FPLP	2F-B1x-44	2	20 (0.92)	7 x 28 AWG	White	0.15 (3.8)	15 (22)
CL3P/CMP/FPLP	2F-B1x-44	3	20 (0.92)	7 x 28 AWG	White	0.16 (4.1)	13 (22)
CL3P/CMP/FPLP	2F-B3x-44	4	20 (0.92)	7 x 28 AWG	White	0.17 (4.3)	24 (36)
L3P/CMP/FPLP	2F-A1x-44	2	22 (0.73)	7 x 30 AWG	White	0.14 (3.6)	11 (16)
L3P/CMP/FPLP	2F-A2x-44	3	22 (0.73)	7 x 30 AWG	White	0.15 (3.8)	14 (6)
CL3P/CMP/FPLP	2F-A2X-44 2F-A3x-44	4	22 (0.73)	7 x 30 AWG	White	0.16 (4.1)	14 (6)
	2F-A4x-44	6	22 (0.73)	7 x 30 AWG	White	0.19 (4.8)	24 (36)
	2F-A5x-44	8	22 (0.73)	7 x 30 AWG	White	0.20 (5.1)	31 (46)
L3P/CMP/FPLP	2F-A6x-44	10	22 (0.73)	7 x 30 AWG	White	0.23 (5.8)	37 (55)
CL3P/CMP/FPLP	2F-A7x-44	12	22 (0.73)	7 x 30 AWG	White	0.24 (6.1)	43 (64)
CL3P/CMP/FPLP CL3P/CMP/FPLP	2F-51x-44 2F-52x-44	2 3	22 (0.64) 22 (0.64)	Solid	White	0.13 (3.3) 0.14 (3.5)	11 (16) 13 (5)

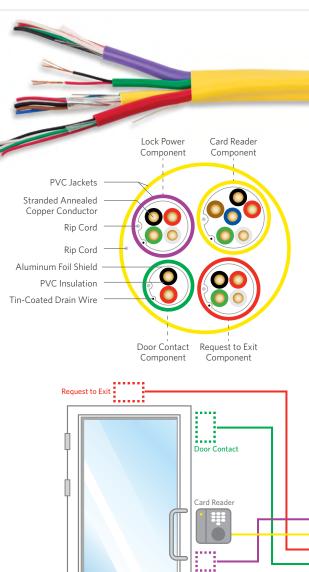
²Additional jacket colors are available.

PACKAGING OPTIONS							
	Plastic Spool Re		Reel-in-	a-Box	Wood Reel	Shrink Wrap	
	1,000'	500'	1,000'	500'	1,000'	250'	500'
¹ Replace "x' with:	2	3	4	5	6	7	8



Access Control Composite

Riser/Plenum



PRODUCT DESCRIPTION

The Access Control Composite series combines four components that are required for card reader/keypad, door contact, request to exit and lock power device connectivity in a single cable. These composites are offered with an option to shield all components or just the single card reader component. Both riser and plenum jacket constructions are available.

APPLICATIONS

Access control

FEATURES

- Four components in a single jacket
- Twisted pair in card reader component
- Jacket rip cord
- Overall shield (where applicable)
- QuickCount marking system in feet and meters
- BENEFITSSave labor costs with a one
- cable runSatisfies requirements of RS-232
- and RS-485 protocolsEasy to open; saves cable preparation time
- Electromagnetic Interference
 (EMI) protection
- Provides remaining length of cable on spool resulting in less scrap

COMPONENT COLOR CODING AND APPLICATION							
	ponent mber	Cable Type	Application	Component Jacket Color			
\rightarrow	1	18 AWG x 4 conductors	Lock Power	Purple			
->	2	22 AWG x 3 twisted pairs	Card Reader	Yellow			
->	3	22 AWG x 4 conductors	Request to Exit	Red			
->	4	22 AWG x 2 conductors	Door Contact	Green			

ENVIRONMENTAL SPECIFICATIONS			
Operation	-4°F to +167°F (-20°C to +75°C)		
Installation	+32°F to +149°F (0°C to +65°C)		

COMPOSITE SPECIFICATIONS				
Outer Jacket	Riser: Flame Retardant (FR) PVC Plenum: Low smoke PVC			
Jacket Marking	Example: XXXX FT/XXXX M SUPERIOR ESSEX ACCESS CONTROL CABLE DOOR / ZONE A B C D E / 0 1 2 3 4 5 6 7 8 9 18/4C + 22/3PR SHLD + 22/4C + 22/2C (UL) CMR/ CL3R 75°C "ROHS COMPLIANT"			
Package	Wood reel			
Performance Compliance	NEC Article 725 NEC Article 800 NEC Article 760 UL® 13 CL3R/CL3P UL 444 CMR/CMP UL 1424 FPLR/FPLP UL 1666 NFPA 262 California State Fire Marshall RoHS-compliant/RoHS 2-compliant			
NRTL Programs	UL Listed CL3R, CMR, FPLR UL Listed CL3P, CMP, FPLP			

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COMPONENT SPECIFICATIONS

Conductor/Pair Count	Available with 2 through 4 conductors and available with 3 twisted pairs
Conductor	Fully annealed, stranded bare copper
AWG (mm)	Available in 18 (1.16) and 22 (0.64)
Insulation	Low smoke PVC
Shield (where applicable)	1-mil overall aluminum polyester foil shield with 24 AWG (0.51 mm) solid tinned copper drain wire
Component Jacket	Riser: Flame Retardant (FR) PVC Plenum: Low smoke PVC
Component Jacket Marking	Example: LOCK POWER DOOR / ZONE A B C D E / 0 1 2 3 4 5 6 7 8 9 18 AWG/4C PLENUM

Lock Power

SUPERIOR ESSEX All information, content, data, specifications, packaging and part numbers detailed herein are subject to change. For the most up-to-date information, please visit SuperiorEssex.com. Purchase of this product is subject exclusively to the then current Superior Essex International LP Terms and Conditions of Sale for Communications and Energy Cable, Wire and Connectivity Products, which can be found on our website, SuperiorEssex.com, or provided to you upon request.



PART NUMB	ERS AND PH	YSICAL CHA	RACTERISTICS						
Listing	Part Number ¹	Component Number	Application	Component Description	Insulation Colors	Component Jacket Color	Outer Jacket Color	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)
		1	Lock Power	18 AWG x 4 conductors, non-shielded	Black, Red, White, Green	Purple			') 105 (156)
CMR/CL3R/ FPLR	AC-A1x-55	2	Card Reader	22 AWG x 3 twisted pairs, shielded	Black/Red, White/Green, Brown/Blue	Yellow	Green	0.46 (11.7)	
		3	Request Exit	22 AWG x 4 conductors, non-shielded	Black, Red, White, Green	Red			
		4	Door Contact	22 AWG x 2 conductors, non-shielded	Black, Red	Green			
		1	Lock Power	18 AWG x 4 conductors, shielded	Black, Red, White, Green	Purple		0.47 (11.9)	110 (164)
CMR/CL3R/ FPLR	AC-A2x-55	2	Card Reader	22 AWG x 3 twisted pairs, shielded	Black/Red, White/Green, Brown/Blue	Yellow	Green		
		3	Request Exit	22 AWG x 4 conductors, shielded	Black, Red, White, Green	Red			
		4	Door Contact	22 AWG x 2 conductors, shielded	Black, Red	Green			
	AC-A1x-68	1	Lock Power	18 AWG x 4 conductors, non-shielded	Black, Red, White, Green	Purple		v 0.46 (11.7)	105 (156)
CMP/CL3P/ FPLP		2	Card Reader	22 AWG x 3 twisted pairs, shielded	Black/Red, White/Green, Brown/Blue	Yellow	Yellow		
		3	Request Exit	22 AWG x 4 conductors, non-shielded	Black, Red, White, Green	Red			
		4	Door Contact	22 AWG x 2 conductors, non-shielded	Black, Red	Green			
		1	Lock Power	18 AWG x 4 conductors, shielded	Black, Red, White, Green	Purple		0.47 (11.9)	110 (164)
CMP/CL3P/ FPLP	AC-A2x-68	2	Card Reader	22 AWG x 3 twisted pairs, shielded	Black/Red, White/Green, Brown/Blue	Yellow	Yellow		
		3	Request Exit	22 AWG x 4 conductors, shielded	Black, Red, White, Green	Red			
		4	Door Contact	22 AWG x 2 conductors, shielded	Black, Red	Green			

PACKAGING OPTI	ONS	
	Wood	l Reel
	1,000'	500'
¹ Replace "x' with:	2	3

Rev 7/15 Ed 13.0



ABAM (600B) and ABMM Series

SPECIFICATIONS	
Conductor	Tinned copper
Insulation	PE/PVC
Core Wrap	Non-hygroscopic, dielectric tape
Shield	Corrugated 8 mil aluminum bonded to the outer jacket
Jacket	Gray PVC printed at 2 foot intervals including product identification, pair count, UL information and sequential lengths in feet and meters
Performance Compliance	Telcordia® GR-137 (select sections) Telcordia GR-111 ASTM B33 - Tinned Copper UL® 444 CSA C22.2 No. 214-08 UL 1666 ANSI/TIA-568-C.2 RoHS-compliant/RoHS 2-compliant
NRTL Programs	UL, c(UL) Listed CMR

PART NUMBERS AND PHYSICAL CHARACTERISTICS

PRODUCT DESCRIPTION

The ABAM (600B) and ABMM Series Central Office (CO) Cables are designed for use between switching and transmission equipment for distances up to 650 feet. The ABAM (600B) series offers low attenuation by using 22 AWG conductors. Both ABAM (600B) and ABMM series (24 AWG) are manufactured with a dark gray smooth PVC jacket and a 0.008 inch corrugated aluminum shield for additional Electromagnetic Interference (EMI) reduction.

APPLICATIONS

- T1/DS1
- T1C/DS1C
- DS2
- 4 Mbps token ring (IEEE 802.5)
- 10 Mbps 10BASE-T Ethernet (IEEE 802.3)

FEATURES

- BENEFITS • 22 and 24 AWG tinned copper conductors • 100 Ohm nominal Impedance
- 0.008 inch corrugated
- aluminum shield
- CMR listed
- CAT 3 compliant
- Band marked conductors

- Low attenuation, enabling longer run length; tinned copper conductors minimize change in wire-wrap joint resistance
- Impedance mismatch with OSP cable is minimized
- Higher EMI isolation over foil . shields; great mechanical strength
- Suitable for horizontal and vertical installations
- . Suitable for network applications
- Easy identification of conductor . ring mates

Series	Part Number	Product Code	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Package
ABAM	55-399-25	606B	6	22 (0.6)	0.42 (11)	87 (129)	10,000 (3,048)	Reel
ABAM	55-499-25	607B	12	22 (0.6)	0.50 (13)	132 (196)	7,000 (2,135)	Reel
ABAM	55-599-25	608B	16	22 (0.6)	0.55 (14)	159 (237)	7,000 (2,135)	Reel
ABAM	55-999-25	613B	30	22 (0.6)	0.69 (18)	257 (382)	5,000 (1,524)	Reel
ABAM	55-A99-25	615B	32	22 (0.6)	0.71 (18)	270 (402)	5,000 (1,524)	Reel
ABAM	55-B99-25	610B	50	22 (0.6)	0.84 (21)	383 (570)	7,500 (2,285)	Reel
ABAM	55-D99-25	612B	75	22 (0.6)	1.02 (26)	561 (835)	3,000 (915)	Reel
ABAM	55-E99-25	611B	100	22 (0.6)	1.14 (29)	711 (1,058)	7,500 (2,285)	Reel
ABMM	55-799-24	-	25	24 (0.5)	0.57 (15)	164 (244)	10,000 (3,048)	Reel
ABMM	55-B99-24	-	50	24 (0.5)	0.73 (19)	276 (411)	10,000 (3,048)	Reel
ABMM	55-E99-24	-	100	24 (0.5)	0.99 (25)	505 (725)	10,000 (3,048)	Reel
ABMM	55-V99-24	-	600	24 (0.5)	2.10 (53)	2,378 (3,539)	1,000 (305)	Reel
ABMM	55-W99-24	-	900	24 (0.5)	2.51 (64)	3,456 (5,143)	1,000 (305)	Reel

ELECTRICAL SPECIFICATIONS

Frequency MHz	Attenuation @ 68°F (20°C) Maximum Guaranteed dB/100 m	PSNEXT Minimum Guaranteed dB/100 m	Minimum SRL dB/100 m
0.772	2.2	43	12
1	2.6	41	12
4	5.6	32	12
8	8.5	27	12
10	9.7	26	12
16	13.1	23	10

Characteristic Impedance Ohms	Delay Skew Maximum ns/100 m	DC Resistance Maximum Ohms/100 m	Resistance Unbalance Maximum %
100 ± 15	45	9.38	5

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1249C Series

PRODUCT DESCRIPTION

The 1249C Series Central Office (CO) Cables are designed for use between switching and transmission equipment for distances up to 450 feet. With short twist lays, 1249C series offers superior crosstalk performance over standard telephone cable. It is manufactured with a dual foil shield for additional Electromagnetic Interference (EMI) reduction and is double jacketed for protection of the twisted pairs. The 1249C series meets or exceeds all applicable requirements of Telcordia® GR-137 specifications.

BENEFITS

APPLICATIONS

- T1/DS1
- T1C/DS1C
- DS2

FEATURES

- 26 AWG tinned
- Solid Polyolefin insulation

copper conductors

- 100 Ohm nominal Impedance
- Short pair lays/tight twists
- Dual aluminum foil shields
- Tinned copper drain wire
- CMR listed
- Rip cord
- Solid color insulation

- Small diameter and light weight result in smaller cable bundles and easier handling; minimize change in wire-wrap joint resistance
 - Greater crush resistance and improved transmission characteristics
 - Impedance mismatch with
 OSP cable is minimized
 - Improved crosstalk performance and pair identification
 - Higher EMI isolation over a single foil shield
 - Easier termination and superior grounding
 - Suitable for horizontal and riser installations
 - Added ease of jacket removal
 - Easy identification of conductor ring mates

SPECIFICATIONS	
Conductor	Tinned copper
Insulation	Flame retardant polyethylene
Shield	Dual aluminum foil
Jacket	Gray PVC printed at 2 foot intervals including product identification, pair count, UL information and sequential lengths in feet and meters
Performance Compliance	Telcordia® GR-137-CORE, Issue 2, May 2013 Telcordia GR-499-CORE (Pulse shape compliance at 450 feet) ASTM B33 - Tinned Copper UL® 444 CSA C22.2 No. 214-08 UL 1666 RoHS-compliant/RoHS 2-compliant
NRTL Programs	UL, c(UL) Listed CMR

1,11

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Package
55-499-20	12	26 (0.4)	0.35 (8.8)	50 (74)	7,000 (2,133)	Reel
55-799-20	25	26 (0.4)	0.45 (11.4)	88 (131)	5,000 (1,524)	Reel
55-899-20	28	26 (0.4)	0.47 (11.9)	93 (138)	5,000 (1,524)	Reel
55-999-20	30	26 (0.4)	0.49 (12.4)	101 (150)	4,000 (1,219)	Reel
55-A99-20	32	26 (0.4)	0.50 (12.7)	105 (156)	4,000 (1,219)	Reel
55-B99-20	50	26 (0.4)	0.59 (14.9)	153 (228)	3,000 (914)	Reel
55-E99-20	100	26 (0.4)	0.76 (19.3)	277 (412)	3,000 (914)	Reel

ELECTRICAL SPECIFICATIONS

Frequency	PSNEXT dl		PSNEXT Worst Pair dB		
MHz	Minimum	Typical	Minimum	Typical	
0.15	58	66	53	60	
0.772	47	53	42	48	
1.6	43	47	38	43	
3.15	38	42	33	37	
6.3	34	38	29	32	

	Attenuation @ 68°F (20°C)			Conductor DC Resistance		
Bit Rate Mb/s	Frequency MHz	Maximum Average* dB/kft (dB/100 m)	Typical dB/kft (dB/100 m)	@ 68°F (20°C) Maximum Individual Ohms/kft (Ohms/km)	Mutual Capacitance Nominal pF/ft (pF/m)	Characteristic Impedance @ 0.772 MHz Ohms
1.544	0.772	7.8 (2.6)	6.4 (2.1)	46.1 (151)	16 (52)	102 ± 15.3

*For cables with 12-pair or less, the maximum average attenuation may be increased by 10% over the values shown.

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1161A Series Category 3

SPECIFICATIONS	
Conductor	Tinned copper
Insulation	Polyolefin
Core Wrap	Non-hygroscopic, dielectric tape
Shield	Aluminum foil
Jacket	Gray PVC printed at 2 foot intervals including product identification, pair count, UL information and sequential lengths in feet and meters
Performance Compliance	Telcordia® GR-137-CORE, Issue 2, May 2013 Telcordia GR-499-CORE (Pulse shape compliance at 565 feet) ASTM B33 - Tinned Copper UL® 444 CSA C22.2 No. 214-08 UL 1666 ANSI/TIA-568-C.2 RoHS-compliant/RoHS 2-compliant
NRTL Programs	UL, c(UL) Listed CMR

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Package
55-F99-21	8	24 (0.5)	0.35 (8.9)	45 (67)	10,000 (3,048)	Reel
55-599-21*	16	24 (0.5)	0.41 (10)	77 (115)	7,000 (2,133)	Reel
55-799-21*	25	24 (0.5)	0.48 (12)	112 (167)	5,000 (1,524)	Reel
55-899-21*	28	24 (0.5)	0.51 (13)	123 (183)	5,000 (1,524)	Reel
55-A99-21*	32	24 (0.5)	0.55 (14)	143 (213)	4,000 (1,219)	Reel
55-B99-21*	50	24 (0.5)	0.66 (17)	210 (313)	3,000 (914)	Reel
55-E99-21*	100	24 (0.5)	0.89 (23)	389 (579)	1,000 (305)	Reel

*For cables with 12-pair or less, the maximum average attenuation may be increased by 10% over the values shown.

FLECTRICAL SPECIFICATIONS

ELECTRICAL STEELITEATIONS					
	PSNEXT	Mean	PSNEXT Worst Pair		
Frequency MHz	Minimum dB	Typical dB	Minimum dB	Typical dB	
0.15	58	66	53	60	
0.772	47	53	42	48	
1.6	43	47	38	43	
3.15	38	42	33	37	
6.3	34	38	29	32	

Attenuation @ 68°F (20°C)			Maximum Individual			
Bit Rate Mb/s	Frequency MHz	Maximum Average* dB/kft (dB/100 m)	Typical dB/kft (dB/100 m)	Conductor DC Resistance @ 68°F (20°C) Ohms/kft (Ohms/km)	Nominal Mutual Capacitance pF/ft (pF/m)	Characteristic Impedance @ 0.772 MHz Ohms
1.544	0.772	6.3 (2.1)	5.4 (1.8)	28.6 (93.8)	16 (52)	102 ± 15.3

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PRODUCT DESCRIPTION

The 1161A Series Central Office (CO) Cables are designed for use between switching and transmission equipment, spanning distances up to 565 feet. With short twist lays, 1161A series offers superior crosstalk performance over standard telephone cable. It is manufactured with a foil shield for Electromagnetic Interference (EMI) reduction. The 1161A series meets or exceeds all applicable requirements of Telcordia® GR-137 specifications.

APPLICATIONS

- T1/DS1
- T1C/DS1C
- DS2

FI	EATURES	BENEFITS				
•	24 AWG tinned copper conductors	r	Small diameter and light weight results in smaller bundles of cables and improved flexibility (compared with 600 Series)			
		r	Finned copper conductors ninimize change in wire-wrap oint resistance			
•	Solid color Polyolefin insulation	ā	Greater crush resistance and improved transmission characteristics			
•	100 Ohm nominal Impedance		mpedance mismatch with OSP cable is minimized			
•	Short pair lays/tight twists		mproved crosstalk performance and pair identification			

- · Aluminum foil shield
- Tinned copper drain wire .
- CMR listed
- 75°C rating
- Rip cord

Suitable for horizontal and riser Wider operating temperature range

Easier termination and superior

. Added ease of jacket removal

EMI isolation

grounding

installations



Rev 7/15 Ed 13.0

600C Series

PRODUCT DESCRIPTION

The 600C Series Central Office (CO) Cables are designed for use between switching and transmission equipment for distances up to 650 feet. This series offers the lowest attenuation of all the CO cable products by using 22 AWG conductors. It is manufactured with a dual foil shield for additional Electromagnetic Interference (EMI) reduction. The 600C series meets or exceeds all applicable requirements of Telcordia® GR-137 specifications.

APPLICATIONS

- T1/DS1
- T1C/DS1C
- DS2

FEATURES

FEATURES	BENEFITS
22 AWG tinned copper conductors	 Low attenuation, enabling longer run length; tinned copper conductors minimize change in wire-wrap joint resistance
Solid Polyolefin insulation	 Greater crush resistance and improved transmission characteristics; smaller cable over dual insulated type
100 Ohm nominal Impedance	 Impedance mismatch with OSP cable is minimized
Dual aluminum foil shield	 Higher EMI isolation over a single foil shield; smaller cable diameter than 600B Series
Tinned copper drain wire	 Easier termination and superior grounding
CMR listed	 Suitable for horizontal and riser installations
 Rip cord 	 Added ease of jacket removal

- Rip cord
- Band marked
- Added ease of jacket removal
- · Easy identification of conductor ring mates

SPECIFICATIONS	
Conductor	Tinned copper
Insulation	Polyolefin
Shield	Dual aluminum foil
Jacket	Gray PVC printed at 2 foot intervals including product identification, pair count, UL information and sequential lengths in feet and meters
Performance Compliance	Telcordia® GR-137-CORE, Issue 2, May 2013 Telcordia GR-499-CORE (Pulse shape compliance at 650 feet) ASTM B33 - Tinned Copper UL® 444 CSA C22.2 No. 214-08 UL 1666 RoHS-compliant/RoHS 2-compliant
NRTL Programs	UL, c(UL) Listed CMR

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Product Code	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Package
55-399-38	606C	6	22 (0.6)	0.33 (8.3)	52 (77)	10,000 (3,048)	Reel
55-499-38	607C	12	22 (0.6)	0.43 (10.9)	89 (132)	7,000 (2,133)	Reel
55-599-38	608C	16	22 (0.6)	0.49 (12.4)	118 (176)	7,000 (2,133)	Reel
55-699-38	617C	20	22 (0.6)	0.53 (13.4)	141 (210)	5,000 (1,524)	Reel
55-799-38	609C	25	22 (0.6)	0.58 (14.7)	172 (256)	5,000 (1,524)	Reel
55-899-38	616C	28	22 (0.6)	0.61 (15.5)	189 (281)	5,000 (1,524)	Reel
55-999-38	613C	30	22 (0.6)	0.64 (16.2)	201 (299)	5,000 (1,524)	Reel
55-A99-38	615C	32	22 (0.6)	0.65 (16.5)	213 (317)	5,000 (1,524)	Reel
55-B99-38	610C	50	22 (0.6)	0.79 (20.0)	324 (482)	3,000 (914)	Reel

FLECTRICAL SPECIFICATIONS

			PSNEXT Mean	PSNEXT Worst Pair			
	quency MHz	Minimum dB	,	pical M dB	۸inimum dB	Typical dB	
(0.15	58		66	53	60	
0).772	47		53	42	48	
	1.6	43		47	38	43	
	3.15	38		42	33	37	
	6.3	34		38	29	32	
	Atten	uation @ 68°F (20°C)		Conductor DC Resistance		Characteristic	
Bit Rate Mb/s	Frequency MHz	Maximum Average* dB/kft (dB/100 m)	Typical dB/kft (dB/100 m)	@ 68°F (20°C) Maximum Individual Ohms/kft (Ohms/km)	Mutual Capacitance Nominal pF/ft (pF/m)	Impedance @ 0.772 MHz Ohms	
1.544	0.772	5.0 (1.6)	4.0 (1.3)	18 (59.1)	16 (52)	102 ± 15.3	

*For cables with 12-pair or less, the maximum average attenuation may be increased by 10% over the values shown. Telcordia is a registered trademark of Ericsson Inc. UL is a registered trademark of UL LLC.

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25-Pair Category 5e Shielded

CMR

Conductor Tinned copper Insulation Polyolefin Shield Aluminum foil	
Shield Aluminum foil	
Jacket Flame retardant P	VC
lacket Marking includes produ	ntervals; information ct identification, pair mation and sequential and meters
Input Impedance 100 ± 15 @ 1-100	MHz
Nominal Velocity of Propagation 69	
Performance Compliance ASTM B33 - Tinne UL® 444 CSA C22.2 No. 21 UL 1666 ANSJ/TIA-568-C. RoHS-compliant/	4-08
NRTL Programs UL, c(UL) Listed C	MR

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Pair Count	AWG (mm)	Jacket Color	Nominal Diameter in (mm)	Approx. Weight Ibs/kft (kg/km)	Package
55-779-19	25	24 (0.5)	Green	0.57 (15)	145 (216)	5,000' Reel
55-789-19	25	24 (0.5)	Gray	0.57 (15)	145 (216)	5,000' Reel
55-799-19	25	24 (0.5)	Blue	0.57 (15)	145 (216)	5,000' Reel

PRODUCT DESCRIPTION

APPLICATIONS

FEATURES

Central Office cable

· Small outside diameter

· Vibrant insulation colors

Performance compliance with

ANSI/TIA-568-C.2 specification

• Remote terminal connecting cable

This 25-pair, 24 AWG, Category 5e Tin Copper Shielded Cable is utilized to connect equipment within a remote terminal cabinet or

within a Central Office (CO). Tight twist lays offer superior crosstalk performance for supporting digital subscriber line (xDSL) technologies and higher IPTV data speeds. Assembled with a cable connector on both ends, the combination facilitates quick installation within the cabinet. The cable is manufactured with a blue or gray colored double jacket separated by a single aluminum foil shield for additional Electromagnetic Interference (EMI) reduction and added protection for the twisted pairs.

BENEFITS

· Facilitates routing within a remote terminal

Provides cost-effective solution

• Easier identification of conductors

ELECTRICAL	ELECTRICAL SPECIFICATIONS							
	Attenuation @ 68°F (20°C) Maximum NEXT Minimum dB/100 m dB/100 m		ACR Minimum dB/100 m		PSNEXT Minimum dB/100 m			
Frequency	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex
MHz	Specified	Typical	Specified	Typical	Calculated	Typical	Specified	Typical
1	2.0	1.8	65.3	77.7	63.3	75.9	62.3	75.2
4	4.1	3.7	56.3	68.7	52.2	64.9	53.3	66.0
8	5.8	5.4	51.8	61.3	46.0	55.8	48.8	58.7
10	6.5	6.0	50.3	60.7	43.8	54.5	47.3	58.3
16	8.2	7.7	47.2	56.1	39.1	48.3	44.3	53.7
20	9.3	8.6	45.8	55.3	36.5	46.5	42.8	52.9
25	10.4	9.6	44.3	53.8	33.9	44.0	41.3	51.4
31.25	11.7	10.8	42.9	52.7	31.2	41.6	39.9	50.0
62.5	17.0	15.5	38.4	48.0	21.4	32.2	35.4	45.5
100	22.0	19.8	35.3	44.5	13.3	24.2	32.3	42.2

PSACR Min dB/100			Return Loss Minimum dB/100 m		ELFEXT Minimum dB/100 m		PSELFEXT Minimum dB/100 m	
Frequency	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex	TIA-568-C.2	Superior Essex
MHz	Calculated	Typical	Specified	Typical	Specified	Typical	Specified	Typical
1	60.3	73.3	20.0	40.1	63.8	69.2	60.8	68.5
4	49.2	62.2	23.0	40.1	51.7	57.7	48.7	57.0
8	43.0	53.2	24.5	39.8	45.7	51.6	42.7	49.5
10	40.8	52.2	25.0	37.3	43.8	49.0	40.8	48.2
16	36.1	46.0	25.0	36.7	39.7	45.6	36.7	43.8
20	33.5	44.2	25.0	36.0	37.7	43.6	34.7	42.8
25	30.9	41.7	24.3	34.5	35.8	42.0	32.8	40.7
31.25	28.2	39.0	23.6	32.6	33.9	40.1	30.9	39.3
62.5	18.4	29.9	21.5	31.6	27.8	34.7	24.8	33.5
100	10.3	22.1	20.1	31.7	23.8	30.4	20.8	29.4

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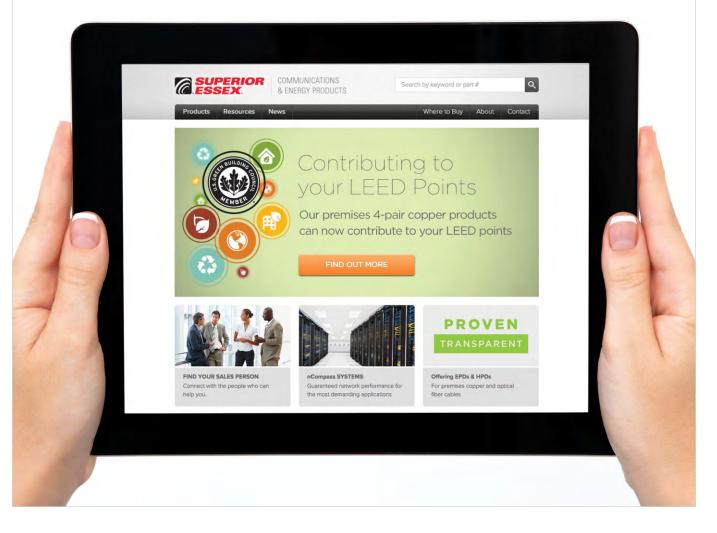


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Switchboard 100 Ohm

SPECIFICATIONS	
Conductor	Tinned copper
Insulation	PVC
Jacket	Gray PVC
Jacket Marking	Printed at 2 foot intervals; information includes product identification, pair count, UL information and sequential lengths in feet and meters
Performance Compliance	ASTM B33 - Tinned Copper UL® 444 CSA C22.2 No. 214-08 UL 1666 Telcordia® GR-137-CORE, Issue 2, May 2013 (select sections) RoHS-compliant/RoHS 2-compliant
NRTL Programs	UL, c(UL) Listed CMR

PRODUCT DESCRIPTION

Switchboard 100 Central Office (CO) Cables are designed for indoor use in CO exchanges, or in premises telephone rooms. These cables are used for interconnection of distribution frames and digital switching and transmission equipment systems. Switchboard 100 provides 100 Ohm characteristic impedance. The product line consists of 24 or 26 AWG tinned insulated copper wires that are twisted into pairs. The pairs are stranded together utilizing a standard color code scheme.

APPLICATIONS

- T1/DS1
- T1C/DS1C
- 4 Mbps token ring (IEEE 802.5)
- 10 Mbps 10BASE-T Ethernet (IEEE 802.3)

FEATURES

FE	ATURES	B	ENEFITS
•	100 Ohm nominal Impedance	•	Impedance mismatch with Outside Plant (OSP) cable is minimized
•	Tinned copper conductors	•	Minimize change in wire-wrap joint resistance
•	CMR listed	•	Suitable for horizontal and riser installations
•	Rip cord	•	Added ease of jacket removal
•	Band marked	•	Easy identification of conductor ring mates

ELECTRICAL SPECIFICATIONS

Conductor Size AWG (mm)	Conductor DC Resistance @ 68°F (20°C) Maximum Individual Ohms/kft (Ohms/km)	Mutual Capacitance Nominal pF/ft (pF/m)	Characteristic Impedance @ 1 MHz Ohms	Maximum Average Attenuation* @ 0.772 MHz @ 68°F (20°C) dB/kft (dB/km)
24 (0.5)	28.6 (93.8)	20 (66)	100 ± 15	6.3 (20)
26 (0.4)	46.1 (151)	20 (66)	100 ± 15	7.8 (25)

*For cables with 12-pair or less, the maximum average attenuation may be increased by 10% over the values shown.

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PREMISES CABLE

FTTP

WIRELESS

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Part Number	Product Code	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Package
55-021-23	TIW 2/24	2	24 (0.5)	0.14 (4)	10 (15)	5,000 (1,524)	Reel
55-241-23	TIW 4/24 or 286A	4	24 (0.5)	0.18 (5)	18 (27)	1,000 (305)	POP box
55-341-23	TIW 6/24 or 252A	6	24 (0.5)	0.22 (6)	26 (39)	1,000 (305)	POP box
55-F31-23	294A	8	24 (0.5)	0.24 (7)	33 (49)	1,000 (305)	Reel
55-G99-23	TIW 10/24 or 253A	10	24 (0.5)	0.25 (7)	40 (60)	7,000 (2,133)	Reel
55-499-23	TIW 12/24 or 265A	12	24 (0.5)	0.28 (7)	49 (73)	7,000 (2,133)	Reel
55-599-23	TIW 16/24	16	24 (0.5)	0.32 (8)	64 (95)	7,000 (2,133)	Reel
55-699-23	255A	20	24 (0.5)	0.35 (9)	78 (116)	5,000 (1,524)	Reel
55-799-23	TIW 25/24	25	24 (0.5)	0.39 (10)	96 (143)	5,000 (1,524	Reel
55-899-23	TIW 28/24	28	24 (0.5)	0.41 (10)	107 (159)	5,000 (1,524)	Reel
55-A99-23	TIW 32/24	32	24 (0.5)	0.43 (11)	121 (180)	5,000 (1,524)	Reel
55-P99-23	269A	36	24 (0.5)	0.46 (12)	135 (201)	5,000 (1,524)	Reel
55-B99-23	TIW 50/24 or 270A	50	24 (0.5)	0.53 (13)	184 (274)	3,000 (914)	Reel
55-S99-23	267A	72	24 (0.5)	0.65 (17)	276 (411)	3,000 (914)	Reel
55-E99-23	TIW 100/24 or 262A	100	24 (0.5)	0.77 (20)	374 (557)	1,000 (305)	Reel
55-U99-23	287A	120	24 (0.5)	0.83 (21)	445 (662)	1,000 (305)	Reel
55-399-26	816A	6	26 (0.4)	0.18 (5)	17 (25)	5,000 (1,524)	Reel
55-F99-26	811A	8	26 (0.4)	0.19 (5)	22 (33)	5,000 (1,524)	Reel
55-G99-26	820A	10	26 (0.4)	0.20 (6)	27 (40)	5,000 (1,524)	Reel
55-799-26	824A	25	26 (0.4)	0.31 (8)	65 (97)	5,000 (1,524)	Reel
55-A99-26	808A	32	26 (0.4)	0.35 (9)	81 (121)	5,000 (1,524)	Reel
55-Q99-26	803A	40	26 (0.4)	0.39 (10)	100 (149)	5,000 (1,524)	Reel
55-P99-26	822A	48	26 (0.4)	0.42 (11)	118 (176)	5,000 (1,524)	Reel
55-B99-26	813A	50	26 (0.4)	0.43 (11)	123 (183)	5,000 (1,524)	Reel
55-R99-26	809A	64	26 (0.4)	0.48 (12)	154 (229)	5,000 (1,524)	Reel
55-K99-26	823A	96	26 (0.4)	0.58 (15)	228 (339)	5,000 (1,524)	Reel
55-E99-26	806A	100	26 (0.4)	0.61 (16)	236 (351)	5,000 (1,524)	Reel
55-H99-26	810A	128	26 (0.4)	0.69 (18)	316 (470)	5,000 (1,524)	Reel
55-L99-26	814A	144	26 (0.4)	0.73 (19)	353 (525)	5,000 (1,524)	Reel

Note: Standard USA Color Code Scheme

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200A/800A Series (Canadian Color Code)

SPECIFICATIONS	
	Tinned copper
Conductor	Tinned copper PVC
Conductor Insulation	
SPECIFICATIONS Conductor Insulation Jacket Jacket Marking	PVC
Conductor Insulation Jacket	PVC Gray PVC Printed at 2 foot intervals on the jacket; information includes product identification, pair count, UL information and sequential lengths in

PRODUCT DESCRIPTION

The 200A and 800A Series Central Office (CO) Cables are designed for indoor use in central offices or in premises telephone rooms, and are utilized between a distribution frame and digital switching/transmission equipment. This series offers 24 and 26 AWG tinned copper at 100 Ohm characteristic impedance levels. Used primarily in Canada, the color code and lay-up scheme has distinctively colored insulation in combination with single dots and double dots or dashes of colored ink. Each wire within a unit is readily distinguishable from all other wires within the same unit. Cables may contain pairs or a combination of pairs and singles. The pairs and singles are assembled together to form a core. Some cable sizes contain "spare pairs." The core is covered by a gray PVC jacket. The 200A and 800A series meet or exceed all applicable requirements of Telcordia[®] GR-137.

APPLICATIONS

- T1/DS1
- T1C/DS1C

FEATURES	BENEFITS
• 24 and 26 AWG tinned copper conductors	 Small diameter and light weight result in smaller cable bundles and easier handling; tinned copper conductors minimize change in wire-wrap joint resistance
Solid PVC insulation	 Greater crush resistance and improved transmission characteristics
100 Ohm nominal impedance	 Impedance mismatch with OSP cable is minimized
Standard pair lays	 Improved crosstalk performance and pair identification
CMR listed	 Suitable for horizontal and riser installations
 Non-shielded design 	 Lower cost
 Rip cord 	 Added ease of jacket removal

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Product Code	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Package
55-399-46	252A	6	24 (0.5)	0.22 (5.6)	26 (39)	3,000 (915)	Reel
55-699-46	255A	20	24 (0.5)	0.35 (8.9)	78 (116)	3,000 (915)	Reel
55-E99-46	262A	101.5	24 (0.5)	0.82 (21)	383 (570)	400 (120)	Reel
55-N99-46	266A	24	24 (0.5)	0.42 (11)	94 (140)	1,200 (365)	Reel
55-P99-46	269A	36	24 (0.5)	0.44 (11)	134 (199)	1,000 (305)	Reel
55-599-47	807A	17	26 (0.4)	0.26 (6.6)	47 (70)	3,000 (915)	Reel
55-A99-47	808A	33	26 (0.4)	0.37 (9.4)	86 (128)	2,000 (610)	Reel
55-R99-47	809A	66	26 (0.4)	0.51 (13)	164 (244)	1,325 (405)	Reel
55-H99-47	810A	132	26 (0.4)	0.67 (17)	330 (491)	700 (215)	Reel
55-Y99-47	821A	52	26 (0.4)	0.45 (11)	131 (195)	1,100 (335)	Reel
55-N99-47	824A	25	26 (0.4)	0.32 (8.1)	66 (98)	2,400 (730)	Reel
55-E99-47	806A	103	26 (0.4)	0.65 (17)	265 (394)	1,000 (305)	Reel

Note: Standard Canadian Color Scheme

ELECTRICAL SPECIFICATIONS

Conductor Size AWG (mm)	Conductor DC Resistance @ 68°F (20°C) Maximum Individual Ohms/kft (Ohms/km)	Mutual Capacitance Nominal pF/ft (pF/m)	Characteristic Impedance @ 1 MHz Ohms	Maximum Average Attenuation* @ 0.772 MHz @ 68°F (20°C) dB/kft (dB/km)
24 (0.5)	28.6 (93.8)	20 (66)	100 ± 15	6.3 (20.7)
26 (0.4)	46.1 (151)	20 (66)	100 ± 15	7.8 (25.6)

*For cables with 12-pair or less, the maximum average attenuation may be increased by 10% over the values shown.

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T100 Series

PRODUCT DESCRIPTION

The T100 Series Central Office (CO) Cables are designed for use between switching and transmission equipment for distances up to 450 feet. They are manufactured with a longitudinal aluminum-polyester foil shield with aluminum facing the jacket for additional Electromagnetic Interference (EMI) reduction. The pairs are stranded together utilizing distinctive colored insulation in combination with markings of colored ink. The outer jacket is a gray flame retardant PVC. T100 series meets or exceeds all applicable requirements of Telcordia® GR-137 specifications.

BENEFITS

APPLICATIONS

- T1/DS1
- T1C/DS1C

FEATURES

•	24 AWG tinned copper conductors	•	Small diameter and light weight result in smaller cable bundles and easier handling; tinned copper conductors minimize change in wire-wrap joint resistance
•	CMR listed	•	Suitable for horizontal and riser installations
•	Solid PVC insulation	•	Greater crush resistance and improved transmission characteristics
•	100 Ohm nominal impedance	•	Impedance mismatch with OSP cable is minimized
•	Standard pair lays	•	Improved crosstalk performance and pair identification
•	Longitudinal aluminum/ polyester foil shield with aluminum facing the jacket	•	EMI isolation
•	24 AWG tinned copper drain wire	•	Easier termination and superior grounding
•	Rip cord	•	Added ease of jacket removal

- Band marked

- e
- Added ease of jacket removal
- · Easy pair identification

SPECIFICATIONS	
Conductor	Tinned copper
Insulation	PVC
Shield	Aluminum/polyester foil
Jacket	Gray PVC
Jacket Marking	Printed at 2 foot intervals; information includes product identification, pair count, UL information and sequential lengths in feet and meters
Performance Compliance	Telcordia [®] GR-137-CORE, Issue 2, May 2013 (select sections) ASTM B33 - Tinned Copper UL [®] 444 (pulse shape compliance at 450 feet) CSA C22.2 No. 214-08 UL 1666 RoHS-compliant/RoHS 2-compliant
NRTL Programs	UL, c(UL) Listed CMR

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Product Code	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Package
55-399-43	T106	6	24 (0.5)	0.30 (7.6)	37 (55)	6,644 (2,025)	Reel
55-F99-43	T108	8	24 (0.5)	0.31 (7.9)	45 (67)	5,578 (1,700)	Reel
55-499-43	T112	12	24 (0.5)	0.34 (8.6)	59 (88)	6,644 (2,025)	Reel
55-599-43	T116	16	24 (0.5)	0.36 (9.1)	74 (110)	6,644 (2,025)	Reel
55-699-43	T120	20	24 (0.5)	0.41 (10)	91 (135)	5,315 (1,620)	Reel
55-799-43	T125	25	24 (0.5)	0.43 (11)	106 (158)	5,315 (1,620)	Reel
55-899-43	T128	28	24 (0.5)	0.44 (11)	114 (170)	5,000 (1,524)	Reel
55-999-43	T130	30	24 (0.5)	0.44 (11)	121 (180)	4,429 (1,350)	Reel
55-A99-43	T132	32	24 (0.5)	0.47 (12)	131 (195)	3,937 (1,200)	Reel

ELECTRICAL SPECIFICATIONS

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Conductor DC Resistance @ 68°F (20°C) Maximum Individual Ohms/kft (Ohms/km)	Mutual Capacitance Nominal pF/ft (pF/m)	Characteristic Impedance @ 1 MHz Ohms	Maximum Average Attenuation @ 0.772 MHz @ 68°F (20°C) dB/kft (dB/km)
28.6 (93.8)	20 (66)	100 ± 15	7.2 (23.6)

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Switchboard 85 and Shielded Switchboard 85

SPECIFICATIONS	
Conductor	Tinned copper
Insulation	PVC
Jacket	Gray PVC
Jacket Marking	Printed at 2 foot intervals; information includes product identification, pair count, UL information and sequential lengths in feet and meters
Shield	SSWBD: Aluminum/polyester SWBD: None
Performance Compliance	ASTM B33 - Tinned Copper UL® 444 CSA C22.2 No. 214-08 UL 1666 RoHS-compliant/RoHS 2-compliant
NRTL Programs	UL, c(UL) Listed CMR

PRODUCT DESCRIPTION

Switchboard Cables are designed for indoor use in central exchanges, the interconnection of distribution frames, and for switching and transmission equipment systems. Switchboard cables are available in both shielded and unshielded designs.

APPLICATIONS

- T1/DS1
- T1C/DS1C

FEATURES	BENEFITS
SSWBD: Aluminum foil shield	EMI isolation
 SSWBD: Tinned copper drain wire 	 Easier termination and superior grounding
Tinned copper conductors	 Minimize change in wire-wrap joint resistance
CMR listed	 Suitable for horizontal and riser installations
Rip cord	 Added ease of jacket removal
Band marked	 Easy identification of conductor ring mates

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Product Code	Shield	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Package
02-097-61	SSWBD	Aluminum foil	25	24 (0.5)	0.35 (8.9)	88 (131)	5,000 (1,524)	Reel
02-098-61	SSWBD	Aluminum foil	32	24 (0.5)	0.41 (10)	113 (168)	5,000 (1,524)	Reel
02-100-61	SSWBD	Aluminum foil	50	24 (0.5)	0.48 (12)	167 (249)	5,000 (1,524)	Reel
02-104-61	SSWBD	Aluminum foil	100	24 (0.5)	0.63 (16)	314 (467)	5,000 (1,524)	Reel
02-840-10	SWBD	-	6	24 (0.5)	0.18 (4.6)	22 (33)	1,000 (305)	Reel
02-841-10	SWBD	-	12	24 (0.5)	0.24 (6.1)	41 (61)	1,000 (305)	Reel
02-431-10	SWBD	-	25	24 (0.5)	0.31 (7.9)	79 (118)	1,000 (305)	Reel
02-815-10	SWBD	-	25	24 (0.5)	0.31 (7.9)	79 (118)	5,000 (1,524)	Reel
02-832-10	SWBD	-	32	24 (0.5)	0.36 (9.1)	100 (149)	5,000 (1,524)	Reel
02-813-10	SWBD	-	50	24 (0.5)	0.45 (11)	157 (234)	5,000 (1,524)	Reel
02-820-10	SWBD	-	100	24 (0.5)	0.60 (15)	302 (449)	5,000 (1,524)	Reel

ELECTRICAL SPECIFICATIONS

Product	Conductor DC Resistance @ 68°F (20°C) Maximum Individual Ohms/kft (Ohms/km)	Mutual Capacitance Nominal pF/ft (pF/m)	Characteristic Impedance @ 1 MHz Ohms	Attenuation Nominal @ 0.772 MHz @ 68°F (20°C) dB/kft (dB/km)
SSWBD	28.6 (93.8)	20 (66)	85 ± 15	11 (36)
SWBD	28.6 (93.8)	20 (66)	85 ± 15	11 (36)

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PRODUCT DESCRIPTION

Distribution Frame Wires are designed for cross-connection of equipment in telephone switch and equipment rooms requiring point-to-point hook ups.

APPLICATIONS

Normal use							
FEATURES	BENEFITS						
 Solid tinned copper conductors in 22 AWG or 24 AWG are insulated with semi-rigid polyvinyl chloride (PVC) 	 Facilitates wire wrapping and tight connections 						
 Each insulated conductor is identified by a solid insulation color 	Easy identification						

SPECIFICATIONS	
Conductor	Tinned copper
Insulation	Semi-rigid PVC
Performance Compliance	ASTM B33 - Tinned Copper UL® 444 CSA C22.2 No. 214-08 GR 136 CORE (normal use) RoHS-compliant/RoHS 2-compliant
NRTL Programs	UL, c(UL) Listed CM

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Number of Conductors	AWG (mm)	Insulation Color	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package
12-001-11	1	22 (0.6)	Red	0.04 (1.0)	2 (3)	750 m Spool
12-002-11	1	22 (0.6)	White	0.04 (1.0)	2 (3)	750 m Spool
12-004-11	1	22 (0.6)	Black	0.04 (1.0)	2 (3)	750 m Spool
12-303-13	1	22 (0.6)	Green	0.04 (1.0)	2 (3)	1,000 m Spool
12-001-12	2	22 (0.6)	Red/Green	0.08 (2.0)	5 (7)	500 m Spool
12-003-12	2	22 (0.6)	Blue/White	0.08 (2.0)	5 (7)	500 m Spool
12-004-12	2	22 (0.6)	Brown/Blue	0.08 (2.0)	5 (7)	500 m Spool
12-005-12	2	22 (0.6)	Black/White	0.08 (2.0)	5 (7)	500 m Spool
12-001-13	2	22 (0.6)	Red/White	0.08 (2.0)	5 (7)	305 m Spool
12-003-13	2	22 (0.6)	Blue/White	0.08 (2.0)	5 (7)	1,000' Spool
12-005-13	2	22 (0.6)	Black/White	0.08 (2.0)	5 (7)	1,000' Spool
12-101-13	2	24 (0.5)	Red/White	0.08 (2.0)	4 (6)	1,000' Spool
12-102-13	2	24 (0.5)	Red/Yellow	0.08 (2.0)	4 (6)	1,000' Spool
12-103-13	2	24 (0.5)	White/Blue	0.08 (2.0)	4 (6)	1,000' Spool
12-104-13	2	24 (0.5)	Violet/Blue	0.08 (2.0)	4 (6)	305 m Spool
12-105-13	2	24 (0.5)	Black/White	0.08 (2.0)	4 (6)	1,000' Spool
12-106-13	2	24 (0.5)	Red/White	0.08 (2.0)	4 (6)	6,000' Spool
12-107-13	2	24 (0.5)	Black/White	0.08 (2.0)	4 (6)	6,000' Spool
12-108-13	2	24 (0.5)	White/Blue	0.08 (2.0)	4 (6)	6,000' Spool
12-109-13	2	24 (0.5)	Yellow/Blue	0.08 (2.0)	4 (6)	1,000' Spool
12-112-13	2	24 (0.5)	Red/White	0.08 (2.0)	4 (6)	3,000' Parallel con
12-304-13	2	22 (0.6)	Brown/Blue	0.08 (2.0)	5 (7)	1,000 m Parallel cor
12-305-13	2	22 (0.6)	Black/White	0.08 (2.0)	5 (7)	1,000 m Parallel con
12-311-13	2	22 (0.6)	Red/Green	0.08 (2.0)	5 (7)	3,000' Spool
12-313-13	2	22 (0.6)	Blue/White	0.08 (2.0)	5 (7)	3,280' Parallel con
12-318-13	2	22 (0.6)	White/Orange	0.08 (2.0)	5 (7)	3,000' Spool
12-403-13	2	22 (0.6)	White/Blue	0.08 (2.0)	5 (7)	3,000' Spool
12-406-13	2	22 (0.6)	Yellow/Violet	0.08 (2.0)	5 (7)	3,000' Spool
12-501-13	2	22 (0.6)	Red/White	0.08 (2.0)	5 (7)	2,300' Spool
12-031-12	4	22 (0.6)	Blue/White, Red/Green	0.12 (3.0)	9 (13)	1,640' Parallel con
12-032-13	4	22 (0.6)	Black/White, Black/White	0.12 (3.0)	9 (13)	1,640' Parallel con
12-033-13	4	22 (0.6)	Yellow/Blue, Orange/Brown	0.12 (3.0)	9 (13)	1,640' Parallel con
12-034-13	5	22 (0.6)	Yellow/Blue, Orange/Brown, Green	0.17 (4.3)	13 (20)	500 m Parallel con
12-035-13	5	22 (0.6)	Black/White, Black/White, Green	0.17 (4.3)	13 (20)	500 m Parallel con

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HD-DFW

SPECIFICATIONS	
Conductor	Tinned copper
Insulation	Heavy duty, abrasion resistant PVC
Performance Compliance	ASTM B33 - Tinned Copper UL® 444 CSA C22.2 No. 214-08 UL 1666 GR-136-CORE (high stress use) Applicable GR-136 Core requirements for high stress applications RoHS-compliant/RoHS 2-compliant
NRTL Programs	UL, c(UL) Listed CMR

PRODUCT DESCRIPTION

Heavy Duty Distribution Frame Wire consists of 22 AWG tinned copper conductors with a heavy duty, abrasion resistant, flame retardant PVC insulation. HD-DFW is available in 2 or 4 conductors, and is used for making an interconnection between the incoming cable (tip termination) terminals and the equipment on the main distribution frame in the Central Office (CO). HD-DFW is suitable for use with either a solderless wrap or soldered terminals.

APPLICATIONS

RENEEITS

FEATURES	BENEFITS
 Solid tinned copper conductors in 22 AWG (0.6 mm) are insulated with PVC 	Facilitates solid connections
 Each insulated conductor is identified by a solid insulation color 	Easy identification

• Heavy duty insulation

Added protection for long runs

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Number of Conductors	AWG (mm)	Insulation Color	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Package
12-201-15	2	22 (0.6)	White/Blue	0.08 (2.0)	5 (7)	3,000 (914)	Parallel cone
12-202-15	2	22 (0.6)	White/Blue	0.08 (2.0)	5 (7)	574 (175)	Parallel cone
12-203-15	2	22 (0.6)	White/Blue	0.08 (2.0)	5 (7)	3,281 (1,000)	Parallel cone
12-204-15	2	22 (0.6)	White/Green	0.08 (2.0)	5 (7)	3,000 (914)	Parallel cone
12-205-15	2	22 (0.6)	White/Orange	0.08 (2.0)	5 (7)	3,000 (914)	Parallel cone
12-206-15	2	22 (0.6)	White/Red	0.08 (2.0)	5 (7)	3,000 (914)	Parallel cone
12-207-15	2	22 (0.6)	Yellow/Black	0.08 (2.0)	5 (7)	3,000 (914)	Parallel cone
12-208-15	2	22 (0.6)	Yellow/Green	0.08 (2.0)	5 (7)	3,000 (914)	Parallel cone
12-209-15	2	22 (0.6)	Yellow/Orange	0.08 (2.0)	5 (7)	3,000 (914)	Parallel cone
12-210-15	2	22 (0.6)	Black/Orange	0.08 (2.0)	5 (7)	3,000 (914)	Parallel cone
12-211-15	2	22 (0.6)	Orange/Blue	0.08 (2.0)	5 (7)	3,000 (914)	Parallel cone
12-216-15	2	22 (0.6)	Black/Green	0.08 (2.0)	5 (7)	3,000 (914)	Parallel cone
12-401-15	4	22 (0.6)	White/Blue, Red/Green	0.12 (3.0)	9 (13)	1,500 (457)	Parallel cone
12-402-15	4	22 (0.6)	Yellow/Blue, Red/Green	0.12 (3.0)	9 (13)	1,500 (457)	Parallel cone

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Tight Twist Distribution Frame Wire

DFW

PRODUCT DESCRIPTION

Tight Twist Distribution Frame Wire is necessary for the deployment of both xDSL and HI-CAP (T-1/HDSL) circuits within the distribution frames of central offices. This higher capacity frame wire is manufactured with a tight twist to minimize the impacts of electromagnetic interferences within this indoor environment. The Tight Twist Distribution Frame Wire is available in a 24 gauge size with a heavy duty flame retardant PVC insulation. Heavy duty in this application means a higher level of abrasion resistance, higher cut through and a higher temperature rating. The 22 AWG product is intended for use on main distribution frames (conventional type), while the 24 AWG is intended for use on COSMIC (Modular) distributing frames. The product is available in various put-ups.

APPLICATIONS

- xDSL
- HI-CAP
- T-1/HDSL
- High stress use

FEATURES	BENEFITS	ITS Conductor		
24 AWG solid tinned annealed copper	Facilitates solid connection	Insulation		
 Heavy duty, high temperature, high stress insulation 	 Added protection for long wire runs 	Performance Complian		
 Twisting sufficient to meet xDSL requirements 				
XDSL requirements		NPTI Programs		

SPECIFICATIONS	
Conductor	Tinned copper
Insulation	Flame retardant PVC
Performance Compliance	ASTM B33 - Tinned Copper UL® 444 CSA C22.2 No. 214-08 Applicable GR-136 Core requirement for high stress applications RoHS-compliant/RoHS 2-compliant
NRTL Programs	UL, c(UL) Listed CM

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	AWG (mm)	Insulation Color	Nominal Diameter in (mm)	Standard Length ft (m)	Package
12-217-T5	24 (0.5)	Violet/Blue	0.07 (1.8)	500 (152)	Spool
12-218-T5	24 (0.5)	Violet/Blue	0.07 (1.8)	1,000 (305)	Spool

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OSP Cable

OSP FIBER CABLE

OSP FIBER CABLE	
Dri-Lite [®] Loose Tube Single Jacket All Dielectric Series 11DB-2 Dri-Lite [®] Loose Tube Double Jacket Non-Armor Series 1GDB-3 Dri-Lite [®] Loose Tube Single Jacket Single Armor Series 12DB-4 Dri-Lite [®] Loose Tube Double Jacket Single Armor Series 1ADB-5	
Dri-Lite [®] Loose Tube Double Jacket Double Armor Series 1DDB-6 Dri-Lite [®] Loose Tube Triple Jacket Double Armor Series 1CDB-7 Loose Tube Single Jacket All Dielectric Series 11B-8 Loose Tube Double Jacket Non-Armor Series 1GB-9	
Loose Tube Double Jacket Non-Armor Series 12	
Loose Tube Double Jacket Double Armor Series 1DB-12 Loose Tube Triple Jacket Double Armor Series 1CB-13 Dri-Lite® Loose Tube Single Jacket Self Support Series 11DMB-14	
Dri-Lite® Loose Tube Double Jacket Self Support Series 1GDMB-15 Dri-Lite® Loose Tube Single Jacket Single Armor Self Support Series 12DMB-16	
Dri-Lite® Loose Tube Double Jacket Single Armor Self Support Series 1ADM	
Loose Tube Single Jacket Self Support Series 11MB-18 Loose Tube Double Jacket Self Support Series 1GMB-19	
Loose Tube Single Jacket Single Armor Self Support Series 12MB-20 Loose Tube Double Jacket Single Armor Self Support Series 1AMB-21 Dri-Lite® Loose Tube Single Jacket Long-Span Self Support	
Series 11MLSB-22 ADSS 100 Series 1F100B-23	
ADSS 200 Series 1F200B-24	
ADSS 400 Series 1F400	
Single Loose Tube Single Armor Series 52	
Single Flex Tube Single Armor Series F2. B-29 Flex Tube Locate Series FM B-30	
Ribbon Locate Series RMB-31 Loose Tube Single Jacket All Dielectric Nylon Series 1NYB-32	
Dri-Lite [®] Loose Tube Indoor/Outdoor OFNR Series 13DB-33 Loose Tube Indoor/Outdoor OFNR Series 13B-34	
Interlock Armored OSP Fiber OFCR Series 131	
Loose Tube Single Jacket Single Armor Indoor/Outdoor LSZH Series HZAB-37 Single Loose Tube Indoor/Outdoor OFNR Series 53	
Heavy Duty Loose Tube OFNR Series 1H	
UG FTTP Series 513B-41	
Buried FTTP, Steel Armor Series 52S	
Figure 8 FTTP Series 573Q B-44 Buried FTTP, Aluminum Armor Series 523 B-45	
Buried Drop Composite, Aluminum Armor Series 72B-46 Buried Drop Composite, Steel Armor Series 72SB-47	
Universal Drop FTTP Series 6UB-48 Toneable Drop FTTP Series 6TB-49	
Universal Flex FTTP Series 6S	
Universal FTTP Tight Buffered Indoor/Outdoor Drop Series W7UB-52	
Toneable FTTP Tight Buffered Indoor/Outdoor Drop Series W7TB-53 Dri-Lite [®] Ribbon Series R1DB-54	
Dri-Lite® Ribbon Single Armor Series R2DB-55 Stranded Tube Ribbon Single Armor Series S2B-57	
Single Tube Ribbon Series R1B-58 Single Tube Ribbon Single Armor Series R2B-59	

OSP COMPOSITE CABLE

Composite Right of Way Series MRB-6	0
Composite Category 5e Drop Series 5FB-6	1
Composite Drop Web Series 5WB-62	2
Composite Drop Overjacket Series 71 OJB-62	3
Composite OSP Web Series 5VB-6-	4
Composite OSP Overjacket Series 70 OJB-62	5
Composite Round CF Series LB-6	6

RDUP/RUS OSP COPPER CABLE

SEALPIC [®] B-68
SEALPIC®-84B-70
SEALPIC®-FSF-84B-72
SEALPIC®-FSF RDUP PE-89B-74
CASPIC®-FSF RDUP PE-89B-76
SEALPIC®-F RDUP PE-39B-78
CUPIC-F® RDUP PE-39B-80
GOPIC®-F RDUP PE-39B-82

BELL OSP COPPER CABLE

ALPETH BHBA, BHAA, BKMA and BKTAB-84
PASP BHBH, BHAH, BKMH and BKTHB-86
Self-Support BHAS and BKMSB-88
Reinforced Self-Support BHAP, BKMP and BKTPB-89
Bonded STALPETH DCAZ, DCMZ and DCTZB-90
STEAMPETH DKTNB-92
Power Station High Potential Filled ASP CMAWB-93
Filled ALPETH ANBA, ANAA, ANMA and ANTAB-94
Filled ASP ANBW, ANAW, ANMW and ANTWB-96
T-SCREEN® Filled ASP KNAW and KNMWB-99

CANADIAN OSP COPPER CABLE

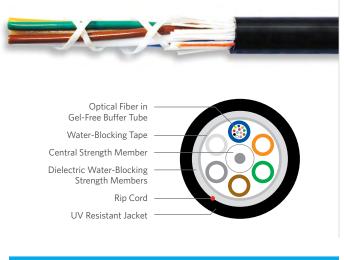
CELFIL BJBB, BJAB, BJMB and BJTBB	8-100
Canadian ALPETH BHBB, BHAB, BKMB and BKTBB	8-102
SEALPAP BHBF, BHAF, BKMF and BKTFB	8-104
Canadian Bonded STALPETH DCAZ, DCMZ and DCTZB	8-106
Aerial Drop Wire ADWB	8-110
Canadian Integrated Messenger Wire IM/F, IM/H and IM/GB	8-108
Canadian ADP NMS with QuickCount® in MetersB	8-109
Buried Distribution Wire BCBDB	8-111

OSP COPPER WIRE

C-Rural WireB-11
IMRDWB-11
IMRDWSB-11
ADP NMSB-11
ADP NMS Compact Design 6 x 24B-11
ADP SB-11
Integrated Messenger Wire IM/F, IM/H and IM/GB-11
BDW AB-11
BDW GB-12
BW GDJB-12
BW AFB-12
Non-Jacketed Tight Twist Cable CoreB-12
Air PipeB-12
Bridle WireB-12
Temporary Drop Wire TDWB-12
E-Block WireB-12
Ground Wire Bare or JacketedB-12
Cross-Connect Category 5 Wire XCWB-12
Indoor/Outdoor Cross-Connect Wire XCWB-12



Series 11D



SPECIFICATIONS	
Fiber Count	Available in 12-fiber up to 288-fiber
Standards Compliance	Telcordia® GR-20-CORE RDUP PE-90 Designation MLT ICEA S-87-640-2011 RoHS-compliant

Telcordia is a registered trademark of Ericsson Inc.

ENVIRONMENTAL SPECIFICATIONS				
Operation/Storage	-40°C to +70°C			
Installation	-30°C to +70°C			

PART	NUME	BER KEY						
1	1	_	_	-	х	D	0	У
1	2	3	4	5	6	7	8	9
	Product family Fiber count (012-288)		Fiber type	Internal designator		Water block/ marking (1-8)		

Contact Customer Service for availability of non-standard offerings.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

PRODUCT DESCRIPTION

Loose tube cables are the product of choice as the backbone in Outside Plant (OSP) environments. The durable loose tube design offers reliable transmission performance over a broad temperature range. Optical fibers and water-blocking elements are placed inside gel-free buffer tubes. The core is constructed by stranding the buffer tubes around a central member using a reverse oscillating lay (ROL). The core is wrapped with flexible strength members covered with a water-blocking tape, then encased with a black jacket. A rip cord is included under the jacket for ease of entry.

APPLICATIONS

- Underground duct and lashed aerial
- Trunk, distribution and feeder cable
- Local loop, metro, long-haul and broadband network

FEATURES

- Available with up to 288-fiber
- Multiple fiber types including hybrids
- Central strength members available in metallic or dielectric
- Dry (SAP) core standard
- Standard tube size for all fiber counts
- Gel-free tubes
- Metallic option offers ease of location, dielectric design eliminates grounding issues

· Multiple network applications

 Reduces cable prep and installation time

BENEFITS

High fiber density

- Reduces the number of tools required
- Speeds fiber access and cleanup

				Maximum Te	nsile Loading	Minimum Bend Radius		
Part Number ¹	Fiber Count	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)	
11012xD0y	12	0.41 (10.3)	47 (70)	600 (2,700)	200 (890)	8.2 (206)	4.1 (103)	
11024xD0y	24	0.41 (10.3)	47 (70)	600 (2,700)	200 (890)	8.2 (206)	4.1 (103)	
11036xD0y	36	0.41 (10.3)	47 (70)	600 (2,700)	200 (890)	8.2 (206)	4.1 (103)	
11048xD0y	48	0.41 (10.3)	47 (70)	600 (2,700)	200 (890)	8.2 (206)	4.1 (103)	
11060xD0y	60	0.41 (10.3)	47 (70)	600 (2,700)	200 (890)	8.2 (206)	4.1 (103)	
11072xD0y	72	0.43 (11.0)	61 (91)	600 (2,700)	200 (890)	8.6 (220)	4.3 (110)	
11096xD0y	96	0.50 (12.7)	79 (118)	600 (2,700)	200 (890)	10.0 (254)	5.0 (127)	
11144xD0y	144	0.63 (16.0)	124 (185)	600 (2,700)	200 (890)	12.6 (320)	6.3 (160)	
11216xD0y	216	0.63 (16.0)	120 (179)	600 (2,700)	200 (890)	12.6 (320)	6.3 (160)	
11288xD0y	288	0.74 (18.9)	161 (240)	600 (2,700)	200 (890)	14.8 (378)	7.4 (189)	

FIBER TYPES:	SINGLE MODE							HYBRID	MULTIMO	DE		
	Reduced Zero TeraFlex® Bend Resistant					TeraGain®	TeraFlex Bend R	esistant Laser Op	otimized 50/125			
	Water Peak	Water Peak	G.657.A1	G.657.A2	G.657.B3	NZDS	LEAF	Hybrid	62.5/125		10G/300	10G/550
¹ Replace "x" with:	3	2	К	J	L	8	S	Н	6	Μ	Ν	Р

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

800.551.8948

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WATER BLOCK AND JACKET PRINT CODES							
	Dry core Dry core speci						
	Feet	Meters	Feet	Meters			
¹ Replace "y" with:	1	2	5	6			



Dri-Lite[®] Loose Tube Double Jacket Non-Armor

Dielectric Water-Blocking

Central Strength Member Water-Blocking Tape

UV Resistant Inner/Outer Jackets

Strength Members

Optical Fiber in Gel-Free Buffer Tube

Rip Cords

PRODUCT DESCRIPTION

Loose tube cables are the product of choice as the backbone in Outside Plant (OSP) environments. The durable loose tube design offers reliable transmission performance over a broad temperature range. Optical fibers are placed inside gel-free buffer tubes. The core is constructed by stranding the buffer tubes around a central member using a reverse oscillating lay (ROL). The core is wrapped with flexible strength members covered with a water-blocking tape, then encased with a black inner jacket. Water-blocking yarns and a black outer jacket are applied. Rip cords are included under each jacket for ease of entry.

APPLICATIONS

- Underground duct and lashed aerial
- Trunk, distribution and feeder cables
- · Local loop, metro, long-haul and broadband network

FEATURES

• Available with up to 288-fiber

- Multiple fiber types including hybrids
- Central strength members available in metallic or dielectric
- Dry (SAP) core standard
- Standard tube size for all fiber counts
- Gel-free tubes

· Multiple network applications Metallic option offers ease of location, dielectric design

eliminates grounding issues

High fiber density

BENEFITS

- Reduces cable prep and installation time
- Reduces the number of tools required
- Speeds fiber access and cleanup

SPECIFICATIONS	
Fiber Count	Available in 12-fiber up to 288-fiber
Standards Compliance	Telcordia [®] GR-20-CORE RDUP PE-90 Designation MLT ICEA S-87-640-2011 RoHS-compliant
Telcordia is a registered trademark of Ericsson Inc.	

ENVIRONMENTAL SPECIFICATIONS	
Operation/Storage	-40°C to +70°C
Installation	-30°C to +70°C

PART	NUMB	ER KEY						
1	G	_	_	_	х	D	0	У
1	2	3	4	5	6	7	8	9
Proc fam		Fiber co	unt (01	2-288)	Fiber type	Inte desig		Water block/ marking (1-8)

Contact Customer Service for availability of non-standard offerings

				Maximum Te	nsile Loading	Minimum Bend Radius		
Part Number ¹	Fiber Count	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Install lbs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)	
1G012xD0y	12	0.50 (12.8)	73 (109)	600 (2,700)	200 (890)	10.0 (256)	5.0 (128)	
1G024xD0y	24	0.50 (12.8)	73 (109)	600 (2,700)	200 (890)	10.0 (256)	5.0 (128)	
1G036xD0y	36	0.50 (12.8)	73 (109)	600 (2,700)	200 (890)	10.0 (256)	5.0 (128)	
1G048xD0y	48	0.50 (12.8)	73 (109)	600 (2,700)	200 (890)	10.0 (256)	5.0 (128)	
1G072xD0y	72	0.53 (13.4)	86 (128)	600 (2,700)	200 (890)	10.6 (268)	5.3 (134)	
1G096xD0y	96	0.59 (15.1)	110 (164)	600 (2,700)	200 (890)	11.8 (302)	5.9 (151)	
1G144xD0y	144	0.72 (18.4)	162 (242)	600 (2,700)	200 (890)	14.4 (368)	7.2 (184)	
1G216xD0y	216	0.72 (18.4)	157 (235)	600 (2,700)	200 (890)	14.4 (368)	7.2 (184)	
1G288xD0y	288	0.84 (21.3)	205 (306)	600 (2,700)	200 (890)	16.8 (426)	8.4 (213)	

FIBER TYPES:	SINGLE MODE							HYBRID	MULTIMO	MULTIMODE		
	Reduced Zero TeraFlex® Bend Resistant						TeraGain®	TeraFlex Bend Resistant Laser Optimized 50/125				
	Water Peak	ater Peak Water Peak (G.657.A2	G.657.B3	NZDS	LEAF	Hybrid	62.5/125	10G/150	10G/300	10G/550
¹ Replace "x" with:	3	2	К	J	L	8	S	Н	6	Μ	Ν	Р

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

WATER BLOCK AND JACKET PRINT CODES								
	Dry core Dry core spec							
	Feet	Meters	Feet	Meters				
¹ Replace "y" with:	1	2	5	6				

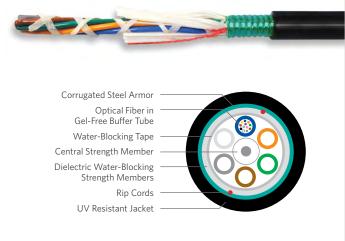
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B-3

Series 12D



SPECIFICATIONS						
Fiber Count	Available in 12-fiber up to 288-fiber					
Standards Compliance	Telcordia [®] GR-20-CORE RDUP PE-90 Designation MLT ICEA S-87-640-2011 RoHS-compliant					

Telcordia is a registered trademark of Ericsson Inc.

ENVIRONMENTAL SPECIFICATIONS					
Operation/Storage	-40°C to +70°C				
Installation	-30°C to +70°C				

PART	NUME	BER KEY						
1	2	_	_	-	х	D	0	У
1	2	3	4	5	6	7	8	9
Proo fan		Fiber count (012-288)		Fiber type		ernal mator	Water block/ marking (1-8)	

Contact Customer Service for availability of non-standard offerings.

PRODUCT DESCRIPTION

Loose tube cables are the product of choice as the backbone in Outside Plant (OSP) environments. The durable loose tube design offers reliable transmission performance over a broad temperature range. Optical fibers and water-blocking elements are placed inside gel-free buffer tubes. The core is constructed by stranding the buffer tubes around a central member using a reverse oscillating lay (ROL). The core is wrapped with flexible strength members covered with a water-blocking tape. A corrugated steel armor is applied and then encased with a black jacket. Rip cords are included under the armor for ease of entry.

APPLICATIONS

- · Direct bury, underground duct and lashed aerial
- Trunk, distribution and feeder cable
- · Local loop, metro, long-haul and broadband network

FEATURES BENEFITS

- Available with up to 288-fiber
- Multiple fiber types including hybrids
- Dry (SAP) core standard
- Standard tube size for all fiber counts
- Corrugated steel armor
- Gel-free tubes

- High fiber density · Multiple network applications
- Reduces cable prep and installation time
- · Reduces the number of tools required
- Improves compressive strength and rodent protection
- Speeds fiber access and cleanup

PART NUMBERS AN	ND PHYSICAL CH	ARACTERISTICS						
				Maximum Te	nsile Loading	Minimum Bend Radius		
Part Number ¹	Fiber Count	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Install lbs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)	
12012xD0y	12	0.46 (11.7)	84 (125)	600 (2,700)	200 (890)	9.2 (234)	4.6 (117)	
12024xD0y	24	0.46 (11.7)	84 (125)	600 (2,700)	200 (890)	9.2 (234)	4.6 (117)	
12036xD0y	36	0.46 (11.7)	84 (125)	600 (2,700)	200 (890)	9.2 (234)	4.6 (117)	
12048xD0y	48	0.46 (11.7)	84 (125)	600 (2,700)	200 (890)	9.2 (234)	4.6 (117)	
12072xD0y	72	0.49 (12.3)	100 (149)	600 (2,700)	200 (890)	9.8 (246)	4.9 (123)	
12096xD0y	96	0.56 (14.3)	125 (186)	600 (2,700)	200 (890)	11.2 (286)	5.6 (143)	
12144xD0y	144	0.69 (17.6)	182 (271)	600 (2,700)	200 (890)	13.8 (352)	6.9 (176)	
12216xD0y	216	0.69 (17.6)	177 (264)	600 (2,700)	200 (890)	13.8 (352)	6.9 (176)	
12288xD0y	288	0.80 (20.3)	228 (340)	600 (2,700)	200 (890)	16.0 (406)	8.0 (203)	

FIBER TYPES:	SINGLE MODE						HYBRID	MULTIMODE				
	Reduced Zero		TeraFlex [®] Bend Resistant						TeraGain®	TeraFlex Bend R	esistant Laser Op	otimized 50/125
	Water Peak	Water Peak	G.657.A1	G.657.A2	G.657.B3	NZDS	LEAF	Hybrid	62.5/125	10G/150	10G/300	10G/550
¹ Replace "x" with:	3	2	К	J	L	8	S	Н	6	Μ	Ν	Р

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

WATER BLOCK AND JACKET PRINT CODES								
Dry core Dry core special								
	Feet	Meters	Feet	Meters				
¹ Replace "y" with:	1	2	5	6				

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Corrugated Steel Armor

Optical Fiber in

Rip Cords

Gel-Free Buffer Tube

Water-Blocking Tape

Dielectric Water-Blocking Strength Members

Central Strength Member

UV Resistant Inner/Outer Jackets

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PRODUCT DESCRIPTION

Loose tube cables are the product of choice as the backbone in Outside Plant (OSP) environments. The durable loose tube design offers reliable transmission performance over a broad temperature range. Optical fibers are placed inside gel-free buffer tubes. The core is constructed by stranding the buffer tubes around a central member using a reverse oscillating lay (ROL). The core is wrapped with flexible strength members covered with a water-blocking tape then encased with a black inner jacket. Water-blocking yarns and a corrugated steel armor are applied and a black outer jacket completes the cable construction. Rip cords are included under the inner jacket and armor for ease of entry.

APPLICATIONS

- · Direct bury, underground duct and lashed aerial
- · Trunk, distribution and feeder cables
- · Local loop, metro, long-haul and broadband network

FEATURES

High fiber density

BENEEITS

- Available with up to 288-fiber Multiple fiber types
- Multiple network applications
- including hybrids Dry (SAP) core standard
- Reduces the number of tools required

 Reduces cable prep and installation time

Corrugated steel armor

• Standard tube size

for all fiber counts

- Gel-free tubes
- Improves compressive strength and rodent protection
- Speeds fiber access and cleaning

SPECIFICATIONS	
Fiber Count	Available in 12-fiber up to 288-fiber
Standards Compliance	Telcordia® GR-20-CORE RDUP PE-90 Designation MLT ICEA S-87-640-2011 RoHS-compliant
Telcordia is a registered trademark of Ericsson Inc.	

ENVIRONMENTAL SPECIFICATIONS	
Operation/Storage	-40°C to +70°C
Installation	-30°C to +70°C

PART	NUMB	ER KEY						
1	А	_	_	_	х	D	0	У
1	2	3	4	5	6	7	8	9
Proo fan		Fiber co	ount (01	2-288)	Fiber type	Inte desig		Water block/ marking (1-8)

Contact Customer Service for availability of non-standard offerings

PART NUMBERS AN	ND PHYSICAL CH	ARACTERISTICS						
				Maximum Te	nsile Loading	Minimum Bend Radius		
Part Number ¹	Fiber Count	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Install lbs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)	
1A012xD0y	12	0.56 (14.1)	119 (178)	600 (2,700)	200 (890)	11.2 (282)	5.6 (141)	
1A024xD0y	24	0.56 (14.1)	119 (178)	600 (2,700)	200 (890)	11.2 (282)	5.6 (141)	
1A036xD0y	36	0.56 (14.1)	119 (178)	600 (2,700)	200 (890)	11.2 (282)	5.6 (141)	
1A048xD0y	48	0.56 (14.1)	119 (178)	600 (2,700)	200 (890)	11.2 (282)	5.6 (141)	
1A072xD0y	72	0.58 (14.9)	138 (206)	600 (2,700)	200 (890)	11.6 (298)	5.8 (149)	
1A096xD0y	96	0.65 (16.6)	166 (248)	600 (2,700)	200 (890)	13.0 (322)	6.5 (166)	
1A144xD0y	144	0.78 (19.9)	230 (343)	600 (2,700)	200 (890)	15.6 (398)	7.8 (199)	
1A216xD0y	216	0.78 (19.9)	226 (336)	600 (2,700)	200 (890)	15.6 (398)	7.8 (199)	
1A288xD0y	288	0.90 (22.9)	283 (422)	600 (2,700)	200 (890)	18.0 (458)	9.0 (229)	

FIBER TYPES:	SINGLE MODE						HYBRID	MULTIMODE				
	Reduced Zero		TeraFlex [®] Bend Resistant						TeraGain®	TeraFlex Bend Resistant Laser Optimized 50/125		
	Water Peak	Water Peak	G.657.A1	G.657.A2	G.657.B3	NZDS	LEAF	Hybrid	62.5/125	10G/150	10G/300	10G/550
¹ Replace "x" with:	3	2	К	J	L	8	S	Н	6	Μ	Ν	Р

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

WATER BLOCK AND JACKET PRINT CODES								
	Dry core Dry core sp							
	Feet	Meters	Feet	Meters				
¹ Replace "y" with:	1	2	5	6				

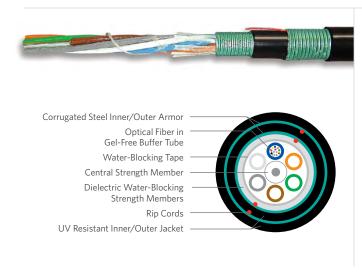
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B-5

Series 1DD



SPECIFICATIONS	
Fiber Count	Available in 12-fiber up to 216-fiber
Standards Compliance	Telcordia® GR-20-CORE RDUP PE-90 Designation MLT ICEA S-87-640-2011 RoHS-compliant

Telcordia is a registered trademark of Ericsson Inc.

ENVIRONMENTAL SPECIFICATIONS					
Operation/Storage	-40°C to +70°C				
Installation	-30°C to +70°C				

PART	NUME	BER KEY						
1	D	_	_	-	х	D	0	У
1	2	3	4	5	6	7	8	9
Proo fan		Fiber co	ount (01	.2-216)	Fiber type		rnal nator	Water block/ marking (1-8)

Contact Customer Service for availability of non-standard offerings.

PRODUCT DESCRIPTION

Loose tube cables are the product of choice as the backbone in Outside Plant (OSP) environments. The durable loose tube design offers reliable transmission performance over a broad temperature range. Optical fibers are placed inside gel-free buffer tubes. The core is constructed by stranding the buffer tubes around a central member using a reverse oscillating lay (ROL). The core is wrapped with flexible strength members and covered with a water-blocking tape. A corrugated steel armor is applied and encased with a black inner jacket. More waterblocking yarns, a corrugated steel armor and a black outer jacket complete the cable construction. Rip cords are included under each armor for ease of entry.

APPLICATIONS

- Direct bury, underground duct and lashed aerial
- Trunk, distribution and feeder cable .
- Local loop, metro, long-haul and broadband network

FEATURES

- Available with up to 216-fiber Multiple fiber types
- including hybrids
- Dry (SAP) core standard
- Standard tube size for all fiber counts
- Corrugated steel armor
- Gel-free tubes

High fiber density

BENEFITS

- Multiple network applications
- Reduces cable prep and installation time
- Reduces the number of tools required
- Improves compressive strength and rodent protection
- · Speeds fiber access and cleanup

			Maximum Te	nsile Loading	Minimum Bend Radius		
Fiber Count	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)	
12	0.63 (16.1)	178 (266)	600 (2,700)	200 (890)	12.6 (322)	6.3 (161)	
24	0.63 (16.1)	178 (266)	600 (2,700)	200 (890)	12.6 (322)	6.3 (161)	
36	0.63 (16.1)	178 (266)	600 (2,700)	200 (890)	12.6 (322)	6.3 (161)	
48	0.63 (16.1)	178 (266)	600 (2,700)	200 (890)	12.6 (322)	6.3 (161)	
72	0.66 (16.9)	196 (293)	600 (2,700)	200 (890)	13.2 (338)	6.6 (169)	
96	0.74 (18.9)	233 (348)	600 (2,700)	200 (890)	14.8 (378)	7.4 (189)	
144	0.88 (22.4)	315 (470)	600 (2,700)	200 (890)	17.6 (448)	8.8 (224)	
216	0.88 (22.4)	310 (463)	600 (2,700)	200 (890)	17.6 (448)	8.8 (224)	
	12 24 36 48 72 96 144	Fiber Count in (mm) 12 0.63 (16.1) 24 0.63 (16.1) 36 0.63 (16.1) 48 0.63 (16.1) 72 0.66 (16.9) 96 0.74 (18.9) 144 0.88 (22.4)	Fiber Count in (mm) lbs/kft (kg/km) 12 0.63 (16.1) 178 (266) 24 0.63 (16.1) 178 (266) 36 0.63 (16.1) 178 (266) 48 0.63 (16.1) 178 (266) 72 0.66 (16.9) 196 (293) 96 0.74 (18.9) 233 (348) 144 0.88 (22.4) 315 (470)	Nominal Diameter in (mm) Approx. Weight lbs/kft (kg/km) Install lbs (N) 12 0.63 (16.1) 178 (266) 600 (2,700) 24 0.63 (16.1) 178 (266) 600 (2,700) 36 0.63 (16.1) 178 (266) 600 (2,700) 48 0.63 (16.1) 178 (266) 600 (2,700) 72 0.66 (16.9) 196 (293) 600 (2,700) 96 0.74 (18.9) 233 (348) 600 (2,700) 144 0.88 (22.4) 315 (470) 600 (2,700)	Fiber Count in (mm) Ibs/kft (kg/km) Ibs (N) Ibs (N) 12 0.63 (16.1) 178 (266) 600 (2,700) 200 (890) 24 0.63 (16.1) 178 (266) 600 (2,700) 200 (890) 36 0.63 (16.1) 178 (266) 600 (2,700) 200 (890) 48 0.63 (16.1) 178 (266) 600 (2,700) 200 (890) 72 0.66 (16.9) 196 (293) 600 (2,700) 200 (890) 96 0.74 (18.9) 233 (348) 600 (2,700) 200 (890) 144 0.88 (22.4) 315 (470) 600 (2,700) 200 (890)	Nominal Diameter Fiber CountNominal Diameter in (mm)Approx. Weight lbs/kft (kg/km)Install lbs (N)Long Term lbs (N)Install in (mm)120.63 (16.1)178 (266)600 (2,700)200 (890)12.6 (322)240.63 (16.1)178 (266)600 (2,700)200 (890)12.6 (322)360.63 (16.1)178 (266)600 (2,700)200 (890)12.6 (322)480.63 (16.1)178 (266)600 (2,700)200 (890)12.6 (322)720.66 (16.9)196 (293)600 (2,700)200 (890)13.2 (338)960.74 (18.9)233 (348)600 (2,700)200 (890)14.8 (378)1440.88 (22.4)315 (470)600 (2,700)200 (890)17.6 (448)	

FIBER TYPES:	SINGLE MC	SINGLE MODE						HYBRID	MULTIMO	MODE		
	Reduced	Reduced Zero TeraFlex® Bend Resistant						TeraGain®	TeraFlex Bend R	esistant Laser Op	timized 50/125	
			G.657.A1	G.657.A2	G.657.B3	NZDS LEAF		Hybrid	62.5/125	10G/150	10G/300	10G/550
¹ Replace "x" with:	3	2	К	J	L	8	S	Н	6	Μ	Ν	Р

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

WATER BLOCK AN	ND JAC	KET PRIN	IT CODE	S
	Dry	core	Dry cor	e special
	Feet	Meters	Feet	Meters
¹ Replace "y" with:	1	2	5	6

B-6

Rev 7/15

Dri-Lite[®] Loose Tube Triple Jacket Double Armor

Loose tube cables are the product of choice as the backbone in Outside Plant (OSP) environments. The durable loose tube design offers reliable transmission performance over a broad temperature range. Optical fibers are placed inside gel-free buffer tubes. The core is constructed by stranding the buffer tubes around a central member using a reverse oscillating lay (ROL). The core is wrapped with flexible strength members covered with a water-blocking tape, then encased in a black inner jacket. Flexible strength members are applied with a corrugated steel armor and an intermediate black jacket. Another layer of flexible strength members with a corrugated steel armor and a black outer jacket completes the cable construction. Rip cords are included under the inner jacket and each armor for ease of entry.

APPLICATIONS

- Direct bury, underground duct and lashed aerial
- Trunk, distribution and feeder cables
- Local loop, metro, long-haul and broadband network

FEATURES	BENEFITS
• Available with up to 144-fiber	 High fiber density
 Multiple fiber types including hybrids 	 Multiple network apprendicts
Dry (SAP) core standard	 Reduces cable prep and installation time

- Standard tube size for all fiber counts
- Corrugated steel armor
- Gel-free tubes

- pplications C ìе
- Reduces the number of tools required
- Improves compressive strength and rodent protection
- Speeds fiber access and cleanup



Water-Blocking Tape Central Strength Member Dielectric Water-Blocking Strength Members Rip Cords UV Resistant Inner. Central and Outer Jackets



SPECIFICATIONS	
Fiber Count	Available in 12-fiber up to 144-fiber
Standards Compliance	Telcordia® GR-20-CORE RDUP PE-90 Designation MLT ICEA S-87-640-2011 RoHS-compliant
Telcordia is a registered trademark of Ericsson Inc.	

ENVIRONMENTAL SPECIFICATIONS	
Operation/Storage	-40°C to +70°C
Installation	-30°C to +70°C

PART	NUMB	ER KEY						
1	С	_	_	_	х	D	0	У
1	2	3	4	5	6	7	8	9
Proc fam		Fiber c	ount (01	.2-144)	Fiber type		rnal nator	Water block/ marking (1-8)

Contact Customer Service for availability of non-standard offerings.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

				Maximum Te	nsile Loading	Minimum B	Bend Radius
Part Number ¹	Fiber Count	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)
1C012xD0y	12	0.73 (18.6)	229 (341)	600 (2,700)	200 (890)	14.6 (372)	7.3 (186)
1C024xD0y	24	0.73 (18.6)	229 (341)	600 (2,700)	200 (890)	14.6 (372)	7.3 (186)
1C036xD0y	36	0.73 (18.6)	229 (341)	600 (2,700)	200 (890)	14.6 (372)	7.3 (186)
1C048xD0y	48	0.73 (18.6)	229 (341)	600 (2,700)	200 (890)	14.6 (372)	7.3 (186)
1C072xD0y	72	0.76 (19.4)	252 (376)	600 (2,700)	200 (890)	15.2 (384)	7.6 (194)
1C096xD0y	96	0.83 (21.1)	289 (431)	600 (2,700)	200 (890)	16.6 (422)	8.3 (211)
1C144xD0y	144	0.96 (24.4)	376 (560)	600 (2,700)	200 (890)	19.2 (488)	9.6 (244)

FIBER TYPES:	SINGLE MODE					HYBRID	MULTIMO	DE				
	Reduced	Reduced Zero TeraFlex® Bend Resistant					TeraGain®	TeraFlex Bend R	esistant Laser Op	timized 50/125		
			G.657.A1	G.657.A2	G.657.B3	NZDS LEAF		Hybrid	62.5/125	10G/150	10G/300	10G/550
¹ Replace "x" with:	3	2	К	J	L	8	S	Н	6	Μ	N	Р

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

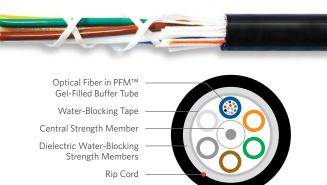
WATER BLOCK AND JACKET PRINT CODES								
	Dry	core	Dry cor	e special				
	Feet	Meters	Feet	Meters				
¹ Replace "y" with:	1	2	5	6				

Rev 7/15



Loose Tube Single Jacket All Dielectric

Series 11



UV Resistant Jacket

SPECIFICATIONS

Fiber Count	Available in 2-fiber up to 288-fiber
Standards Compliance	Telcordia® GR-20-CORE RDUP PE-90 Designation MLT ICEA S-87-640-2011 RoHS-compliant

Telcordia is a registered trademark of Ericsson Inc.

ENVIRONMENTAL SPECIFICATIONS -40°C to +70°C Operation/Storage Installation -30°C to +70°C

PART NUMBER KEY 1 1 0 Х Х У 1 2 4 5 6 7 8 9 3 Water block/ Product Fiber Internal Fiber count (002-288) family type designator marking (1-8)

Contact Customer Service for availability of non-standard offerings.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

PRODUCT DESCRIPTION

Loose tube cables are the product of choice as the backbone in Outside Plant (OSP) environments. The durable loose tube design offers reliable transmission performance over a broad temperature range. Optical fibers are placed inside filled buffer tubes containing PFM[™] gel. The core is constructed by stranding the buffer tubes around a central member using a reverse oscillating lay (ROL). The core is wrapped with flexible strength members covered with a water-blocking tape, then encased with a black jacket. A rip cord is included under the jacket for ease of entry.

APPLICATIONS

- Underground duct and lashed aerial
- Trunk, distribution and feeder cable
- · Local loop, metro, long-haul and broadband network

FEATURES

- BENEFITS Available with up to 288-fiber High fiber density Multiple fiber types Multiple network applications including hybrids
- Central strength members available in metallic or dielectric
- Dry (SAP) core standard
- Standard tube size for all fiber counts
- PFM gel

- Metallic option offers ease of location, dielectric design
- eliminates grounding issues • Reduces cable prep and installation time
- Reduces the number of tools required
- Non-sticky gel speeds fiber access and cleanup

				Maximum Te	nsile Loading	Minimum E	end Radius
Part Number ¹	Fiber Count	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)
11006xx0y	6	0.41 (10.3)	47 (70)	600 (2,700)	200 (890)	8.2 (206)	4.1 (103)
11012xx0y	12	0.41 (10.3)	47 (70)	600 (2,700)	200 (890)	8.2 (206)	4.1 (103)
11018xx0y	18	0.41 (10.3)	47 (70)	600 (2,700)	200 (890)	8.2 (206)	4.1 (103)
11024xx0y	24	0.41 (10.3)	47 (70)	600 (2,700)	200 (890)	8.2 (206)	4.1 (103)
11036xx0y	36	0.41 (10.3)	47 (70)	600 (2,700)	200 (890)	8.2 (206)	4.1 (103)
11048xx0y	48	0.41 (10.3)	47 (70)	600 (2,700)	200 (890)	8.2 (206)	4.1 (103)
11060xx0y	60	0.41 (10.3)	47 (70)	600 (2,700)	200 (890)	8.2 (206)	4.1 (103)
11072xx0y	72	0.43 (11.0)	61 (91)	600 (2,700)	200 (890)	8.6 (220)	4.3 (110)
11096xx0y	96	0.50 (12.7)	79 (118)	600 (2,700)	200 (890)	10.0 (254)	5.0 (127)
11144xx0y	144	0.63 (16.0)	124 (185)	600 (2,700)	200 (890)	12.6 (320)	6.3 (160)
11216xx0y	216	0.63 (16.0)	120 (179)	600 (2,700)	200 (890)	12.6 (320)	6.3 (160)
11288xx0y	288	0.74 (18.9)	161 (240)	600 (2,700)	200 (890)	14.8 (378)	7.4 (189)

FIB	 TV		

Reduced Water Peak	Zero	TeraFle	ex® Bend Re	sistant				TeraGain®			
		62.5/125	10G/150	10G/300	10G/550						
ЗT	2T	KT	JT	LT	8T	ST		(6	MC	NC	DC
31	21	K1	J1	L1	81	S1	н_	6G	MG NG	NG	PG
	Water Peak 3T	Water Peak Water Peak 3T 2T	Water PeakZero3T2TKT	ReducedZeroWater PeakWater PeakG.657.A13T2TKTJT	Water PeakWater PeakG.657.A1G.657.A2G.657.B33T2TKTJTLT	Water PeakWater PeakG.657.A1G.657.A2G.657.B3NZDS3T2TKTJTLT8T	ReducedZeroWater PeakWater PeakG.657.A1G.657.A2G.657.B3NZDSLEAF3T2TKTJTLT8TST	Water Peak Water Peak G.657.A1 G.657.A2 G.657.B3 NZDS LEAF Hybrid 3T 2T KT JT LT 8T ST H	Water Peak Water Peak G.657.A1 G.657.A2 G.657.B3 NZDS LEAF Hybrid 62.5/125 3T 2T KT JT LT 8T ST H 6G	Reduced Zero TeraFlex® Bend Resistant TeraGain® Laser Water Peak Water Peak G.657.A1 G.657.A2 G.657.B3 NZDS LEAF Hybrid 62.5/125 10G/150 3T 2T KT JT LT 8T ST H 6G MG	Water Peak Water Peak G.657.A1 G.657.A2 G.657.B3 NZDS LEAF Hybrid 62.5/125 10G/150 10G/300 3T 2T KT JT LT 8T ST H 6G MG NG

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

	Dry	core	Dry cor	re special
	Feet	Meters	Feet	Meters
¹ Replace "y" with:	1	2	5	6





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B-8

Loose Tube Double Jacket Non-Armor

PRODUCT DESCRIPTION

Loose tube cables are the product of choice as the backbone in Outside Plant (OSP) environments. The durable loose tube design offers reliable transmission performance over a broad temperature range. Optical fibers are placed inside filled buffer tubes containing PFM[™] gel. The core is constructed by stranding the buffer tubes around a central member using a reverse oscillating lay (ROL). The core is wrapped with flexible strength members covered with a water-blocking tape, then encased with a black inner jacket. Water-blocking yarns and a black outer jacket are applied. Rip cords are included under each jacket for ease of entry.

APPLICATIONS

- Underground duct and lashed aerial
- Trunk, distribution and feeder cables
- · Local loop, metro, long-haul and broadband network

FEATURES

- Available with up to 288-fiber
- Multiple fiber types including hybrids
- Central strength members available in metallic or dielectric
- Dry (SAP) core standard
- Standard tube size for all fiber counts
- PFM gel
- BENEFITS

 er
 High fiber density

 Multiple network applications

 Metallic option offers ease of location, dielectric design eliminates grounding issues

 • Reduces cable prep and installation time
 - Reduces the number of tools required
 - Non-sticky gel speeds fiber access and clean-up

Dielectric Water-Blocking Strength Members
Optical Fiber in PFM™ Gel-Filled Buffer Tube
 Central Strength Member
 Water-Blocking Tape
 Rip Cords
 UV Resistant Inner/Outer Jackets



SPECI	FICATIO	ONS										
Fiber C	Count				Available in 6-fiber up to 288-fiber							
Standa	ards Con	npliance			RDUF ICEA	Telcordia® GR-20-CORE RDUP PE-90 Designation MLT ICEA S-87-640-2011 RoHS-compliant						
Telcordia	is a regis	tered trad	emark of	Ericsson In	с.							
ENVIR	ONME	NTAL S	PECIFIC	ATIONS	;							
Operat	tion/Sto	rage			-40°0	-40°C to +70°C						
Installa	ation				-30°C	-30°C to +70°C						
PART	пимв	ER KEY										
1	G	_	_	_	Х	х	0	У				
1	2	2	4	-	1	7	0	0				

Ţ	G	-	-	-	Х	Х	0	У		
1	2	3	4	5	6	7	8	9		
	Product family Fiber count (006-288)					Inte desig		Water block/ marking (1-8)		
	4	Constant.				(

Contact Customer Service for availability of non-standard offerings

PART NUMBERS AND PHYSICAL CHARACTERISTICS

				Maximum Te	nsile Loading	Minimum B	end Radius
Part Number ¹	Fiber Count	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)
1G006xx0y	6	0.50 (12.8)	73 (109)	600 (2,700)	200 (890)	10.0 (256)	5.0 (128)
1G012xx0y	12	0.50 (12.8)	73 (109)	600 (2,700)	200 (890)	10.0 (256)	5.0 (128)
1G024xx0y	24	0.50 (12.8)	73 (109)	600 (2,700)	200 (890)	10.0 (256)	5.0 (128)
1G036xx0y	36	0.50 (12.8)	73 (109)	600 (2,700)	200 (890)	10.0 (256)	5.0 (128)
1G048xx0y	48	0.50 (12.8)	73 (109)	600 (2,700)	200 (890)	10.0 (256)	5.0 (128)
1G072xx0y	72	0.53 (13.4)	86 (128)	600 (2,700)	200 (890)	10.6 (268)	5.3 (134)
1G096xx0y	96	0.59 (15.1)	110 (164)	600 (2,700)	200 (890)	11.8 (302)	5.9 (151)
1G144xx0y	144	0.72 (18.4)	163 (242)	600 (2,700)	200 (890)	14.4 (368)	7.2 (184)
1G216xx0y	216	0.72 (18.4)	157 (235)	600 (2,700)	200 (890)	14.4 (368)	7.2 (184)
1G288xx0y	288	0.84 (21.3)	205 (306)	600 (2,700)	200 (890)	16.8 (426)	8.4 (213)

FIBER TYPES:		

SINGLE MODE

	Reduced Water Peak	Zero	TeraFl	ex® Bend Re	sistant				TeraGain®		ex Bend Re: Optimized 5	
			G.657.A1	G.657.A2	G.657.B3	NZDS	LEAF Hybrid	Hybrid	d 62.5/125	10G/150	10G/300	10G/550
¹ For \leq 36 fibers replace "xx" with:	ЗT	2T	KT	JT	LT	8T	ST		10	140	NC	DC
¹ For > 36 fibers replace "xx" with:	31	21	K1	J1	L1	81	S1	H_ 6G	6G	MG NG	NG	PG
Constituted Filmer Constituted in the "	T		J - 4 - 11 - J 611									

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications

WATER BLOCK AND JACKET PRINT CODES									
	Dry	core	Dry core specia						
	Feet	Meters	Feet	Meters					
¹ Replace "y" with:	1	2	5	6					

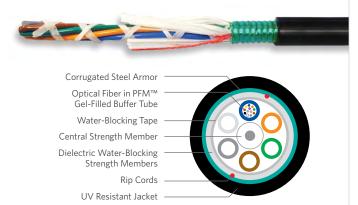
Rev 7/15 All information, content, data, specifications, packaging and part numbers detailed herein are subject to change. For the most up-to-date information, please visit SuperiorEssex.com. Purchase of this product is subject exclusively to the then current Superior Essex International LP Terms and Conditions of Sale for Communications and Energy Cable, Wire and Connectivity Products, which can be found on our website, SuperiorEssex.com, or provided to you upon request.





Loose Tube Single Jacket Single Armor

Series 12



SPECIFICATIONS

Fiber Count	Available in 2-fiber up to 288-fiber
Standards Compliance	Telcordia [®] GR-20-CORE RDUP PE-90 Designation MLT ICEA S-87-640-2011 RoHS-compliant
Telcordia is a reaistered trademark of Fricsson Inc.	

ENVIRONMENTAL SPECIFICATIONS Operation/Storage -40°C to +70°C Installation -30°C to +70°C PART NUMBER KEY

1 2 0 Х Х У 1 2 4 5 6 7 8 9 3 Water block/ Product Fiber Internal Fiber count (002-288) family type designator marking (1-8)

Contact Customer Service for availability of non-standard offerings.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

PRODUCT DESCRIPTION

Loose tube cables are the product of choice as the backbone in Outside Plant (OSP) environments. The durable loose tube design offers reliable transmission performance over a broad temperature range. Optical fibers are placed inside filled buffer tubes containing PFM™ gel. The core is constructed by stranding the buffer tubes around a central member using a reverse oscillating lay (ROL). The core is wrapped with flexible strength members covered with a water-blocking tape. A corrugated steel armor is applied and then encased with a black jacket. Rip cords are included under the armor for ease of entry.

APPLICATIONS

- · Direct bury, underground duct and lashed aerial
- Trunk, distribution and feeder cable
- Local loop, metro, long-haul and broadband network

FEATURES BENEFITS Available with up to 288-fiber High fiber density

- Multiple fiber types including hybrids
- Dry (SAP) core standard
- Standard tube size for all fiber counts
- Corrugated steel armor
- PFM gel

- Multiple network applications
- Reduces cable prep and installation time
- Reduces the number . of tools required
- Improves compressive strength and rodent protection
- Non-sticky gel speeds fiber access and clean-up

				Maximum Te	nsile Loading	Minimum E	end Radius
Part Number ¹	Fiber Count	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)
12006xx0y	6	0.46 (11.7)	84 (125)	600 (2,700)	200 (890)	9.2 (234)	4.6 (117)
12012xx0y	12	0.46 (11.7)	84 (125)	600 (2,700)	200 (890)	9.2 (234)	4.6 (117)
12018xx0y	18	0.46 (11.7)	84 (125)	600 (2,700)	200 (890)	9.2 (234)	4.6 (117)
12024xx0y	24	0.46 (11.7)	84 (125)	600 (2,700)	200 (890)	9.2 (234)	4.6 (117)
12036xx0y	36	0.46 (11.7)	84 (125)	600 (2,700)	200 (890)	9.2 (234)	4.6 (117)
12048xx0y	48	0.46 (11.7)	84 (125)	600 (2,700)	200 (890)	9.2 (234)	4.6 (117)
12072xx0y	72	0.49 (12.3)	100 (149)	600 (2,700)	200 (890)	9.8 (246)	4.9 (123)
12096xx0y	96	0.56 (14.3)	125 (186)	600 (2,700)	200 (890)	11.2 (286)	5.6 (143)
12144xx0y	144	0.69 (17.6)	182 (271)	600 (2,700)	200 (890)	13.8 (352)	6.9 (176)
12192xx0y	192	0.69 (17.6)	177 (264)	600 (2,700)	200 (890)	13.8 (352)	6.9 (176)
12216xx0y	216	0.69 (17.6)	177 (264)	600 (2,700)	200 (890)	13.8 (352)	6.9 (176)
12288xx0y	288	0.80 (20.3)	228 (340)	600 (2,700)	200 (890)	16.0 (406)	8.0 (203)

FIBER TYPES:

	Reduced	Zero	TeraFle	ex® Bend Re	sistant				TeraGain®		ex Bend Res Optimized 5	
	Water Peak	Water Peak	G.657.A1	G.657.A2	G.657.B3	NZDS	LEAF	Hybrid	62.5/125	10G/150	10G/300	10G/550
¹ For \leq 36 fibers replace "xx" with:	ЗT	2T	KT	JT	LT	8T	ST		6G	MC	NG	DC
¹ For > 36 fibers replace "xx" with:	31	21	K1	J1	L1	81	S1	- H_	6G	MG	NG	PG

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

SINGLE MODE

	Dry	core	Dry core special				
	Feet	Meters	Feet	Meters			
¹ Replace "y" with:	1	2	5	6			



B-10



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OSP CABLE

Loose Tube Double Jacket Single Armor

PRODUCT DESCRIPTION

Loose tube cables are the product of choice as the backbone in Outside Plant (OSP) environments. The durable loose tube design offers reliable transmission performance over a broad temperature range. Optical fibers are placed inside filled buffer tubes containing PFM[™] gel. The core is constructed by stranding the buffer tubes around a central member using a reverse oscillating lay (ROL). The core is wrapped with flexible strength members covered with a water-blocking tape then encased with a black inner jacket. Water-blocking yarns and a corrugated steel armor are applied and a black outer jacket completes the cable construction. Rip cords are included under the inner jacket and armor for ease of entry.

APPLICATIONS

- · Direct bury, underground duct and lashed aerial
- · Trunk, distribution and feeder cables
- · Local loop, metro, long-haul and broadband network

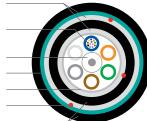
BENEFITS FFATURES Available with up to 288-fiber High fiber density Multiple fiber types Multiple network applications including hybrids Dry (SAP) core standard

- Standard tube size for all fiber counts
- Corrugated steel armor
- PFM gel

- Reduces cable prep and installation time
- Reduces the number of tools required
- Improves compressive strength and rodent protection
- Non-sticky gel speeds fiber access and clean-up

Dielectric Water-Blocking Strength Members
Optical Fiber in PFM™ Gel-Filled Buffer Tube
Central Strength Member
Corrugated Steel Armor
Water-Blocking Tape
Rip Cords
UV Resistant Inner/Outer Jackets

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SPECIFICATIONS Fiber Count Available in 2-fiber up to 288-fiber Telcordia® GR-20-CORE RDUP PE-90 Designation MLT Standards Compliance ICEA S-87-640-2011 RoHS-compliant Telcordia is a registered trademark of Ericsson Inc. **ENVIRONMENTAL SPECIFICATIONS**

Operation/Storage	-40°C to +70°C
Installation	-30°C to +70°C

1 A _ _ x x 0 y 1 2 3 4 5 6 7 8 9 Product x x x x 0 y y	PART	NUMB	UMBER KEY	Y						
Product Eiber Internal Water bloc	1	А	Α	_	_	х	х	0	У	
Product Fiber Internal Water block	1	2	2 3	4	5	6	7	8	9	
Ether count $(10)_{-}(28)$			Libor	count (00	2-288)				Water block, marking (1-8	

Contact Customer Service for availability of non-standard offerings.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

				Maximum Tensile Loading		Minimum B	end Radius
Part Number ¹	Fiber Count	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)
1A006xx0y	6	0.56 (14.1)	119 (178)	600 (2,700)	200 (890)	11.2 (282)	5.6 (141)
1A012xx0y	12	0.56 (14.1)	119 (178)	600 (2,700)	200 (890)	11.2 (282)	5.6 (141)
1A024xx0y	24	0.56 (14.1)	119 (178)	600 (2,700)	200 (890)	11.2 (282)	5.6 (141)
1A036xx0y	36	0.56 (14.1)	119 (178)	600 (2,700)	200 (890)	11.2 (282)	5.6 (141)
1A048xx0y	48	0.56 (14.1)	119 (178)	600 (2,700)	200 (890)	11.2 (282)	5.6 (141)
1A072xx0y	72	0.58 (14.9)	138 (206)	600 (2,700)	200 (890)	11.6 (298)	5.8 (149)
1A096xx0y	96	0.65 (16.6)	166 (248)	600 (2,700)	200 (890)	13.0 (322)	6.5 (166)
1A144xx0y	144	0.78 (19.9)	230 (343)	600 (2,700)	200 (890)	15.6 (398)	7.8 (199)
1A216xx0y	216	0.78 (19.9)	226 (336)	600 (2,700)	200 (890)	15.6 (398)	7.8 (199)
1A288xx0y	288	0.90 (22.9)	283 (422)	600 (2,700)	200 (890)	18.0 (458)	9.0 (229)

FIBER TYPES:				
	비의비어	TV	[D]	EST

SINGLE MODE

	Reduced	Zero	TeraFle	ex® Bend Re	sistant			
		Water Peak	G.657.A1	G.657.A2	G.657.B3	NZDS	LEAF	Hy
¹ For \leq 36 fibers replace "xx" with:	ЗT	2T	KT	JT	LT	8T	ST	
¹ For > 36 fibers replace "xx" with:	31	21	K1	J1	L1	81	S1	ſ

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

WATER BLOCK AND JACKET PRINT CODES Dry core Drv core special Feet Meters Feet Meters

¹Replace "y" with: 2 5 6 1

TeraFlex Bend Resistant Laser Optimized 50/125 TeraGain® lybrid 62.5/125 10G/150 10G/300 10G/550 Η_ 6G MG NG PG

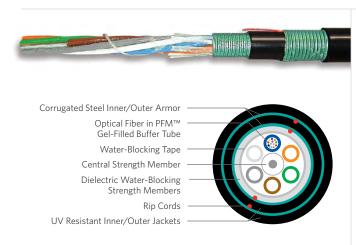
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Rev 7/15

Loose Tube Double Jacket Double Armor

Series 1D



SPECIFICATIONS	
Fiber Count	Available in 6-fiber up to 288-fiber
Standards Compliance	Telcordia® GR-20-CORE RDUP PE-90 Designation MLT ICEA S-87-640-2011 RoHS-compliant

Telcordia is a registered trademark of Ericsson Inc.

ENVIR	ONM	ENTAL S	PECIFIC	ATIONS	5						
Operat	tion/St	orage			-40°C to +70°C						
Installa	ation				-30°C to +70°C						
PART NUMBER KEY											
1	D	-	_	_	х	« x 0		У			
1	2	3	4	5	6	7	8	9			
Product family Fiber count (006-288)		Fiber			Water block/						

type

designator

marking (1-8)

PRODUCT DESCRIPTION

Loose tube cables are the product of choice as the backbone in Outside Plant (OSP) environments. The durable loose tube design offers reliable transmission performance over a broad temperature range. Optical fibers are placed inside filled buffer tubes containing PFM™ gel. The core is constructed by stranding the buffer tubes around a central member using a reverse oscillating lay (ROL). The core is wrapped with flexible strength members and covered with a water-blocking tape. A corrugated steel armor is applied and encased with a black inner jacket. More water-blocking yarns, a corrugated steel armor and a black outer jacket complete the cable construction. Rip cords are included under each armor for ease of entry.

APPLICATIONS

- Direct bury, underground duct and lashed aerial .
- Trunk, distribution and feeder cable .
- Local loop, metro, long-haul and broadband network

FEATURES

- Available with up to 288-fiber
- Multiple fiber types including Hybrids
- Dry (SAP) core standard
- Standard tube size for all fiber counts
- Corrugated steel armor
- PFM gel

High fiber density

BENEFITS

- Multiple network applications
- Reduces cable prep and installation time
- · Reduces the number of tools required
- Improves compressive strength and rodent protection
- Non-sticky gel speeds fiber access and clean-up

Contact Customer Service for availability of non-standard offerings

PART NUMBERS AND PHYSICAL CHARACTERISTICS

				Maximum Tensile Loading		Minimum B	end Radius
Part Number ¹	Fiber Count	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)
1D006xx0y	6	0.63 (16.1)	178 (266)	600 (2,700)	200 (890)	12.6 (322)	6.3 (161)
1D012xx0y	12	0.63 (16.1)	178 (266)	600 (2,700)	200 (890)	12.6 (322)	6.3 (161)
1D024xx0y	24	0.63 (16.1)	178 (266)	600 (2,700)	200 (890)	12.6 (322)	6.3 (161)
1D036xx0y	36	0.63 (16.1)	178 (266)	600 (2,700)	200 (890)	12.6 (322)	6.3 (161)
1D048xx0y	48	0.63 (16.1)	178 (266)	600 (2,700)	200 (890)	12.6 (322)	6.3 (161)
1D072xx0y	72	0.66 (16.9)	196 (293)	600 (2,700)	200 (890)	13.2 (338)	6.6 (169)
1D096xx0y	96	0.74 (18.9)	233 (348)	600 (2,700)	200 (890)	14.8 (378)	7.4 (189)
1D144xx0y	144	0.88 (22.4)	315 (470)	600 (2,700)	200 (890)	17.6 (448)	8.8 (224)
1D216xx0y	216	0.88 (22.4)	310 (463)	600 (2,700)	200 (890)	17.6 (448)	8.8 (224)
1D288xx0y	288	0.99 (25.1)	377 (562)	600 (2,700)	200 (890)	19.8 (502)	9.9 (251)

FIBER TYPES:

family

	Reduced	Zero	TeraFle	ex® Bend Re	sistant				TeraGain®		lex Bend Resistant Optimized 50/125	
	Water Peak	Water Peak	G.657.A1	G.657.A2	G.657.B3	NZDS	LEAF	Hybrid	62.5/125	10G/150	10G/300	10G/550
¹ For \leq 36 fibers replace "xx" with:	ЗT	2T	KT	JT	LT	8T	ST			140	NG	PG
¹ For > 36 fibers replace "xx" with:	31	21	K1	J1	L1	81	S1	п_	6G	MG		

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

SINGLE MODE

WATER BLOCK AND JACKET PRINT CODES

	Dry	core	Dry core special			
	Feet	Meters	Feet	Meters		
¹ Replace "y" with:	1	2	5	6		



R-12

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HYBRID

MULTIMODE

Loose Tube Triple Jacket Double Armor

Loose tube cables are the product of choice as the backbone in Outside Plant (OSP) environments. The durable loose tube design offers reliable transmission performance over a broad temperature range. Optical fibers are placed inside filled buffer tubes containing PFM[™] gel. The core is constructed by stranding the buffer tubes around a central member using a reverse oscillating lay (ROL). The core is wrapped with flexible strength members covered with a water-blocking tape, then encased in a black inner jacket. Flexible strength members are applied with a corrugated steel armor and an intermediate black jacket. Another layer of flexible strength members with a corrugated steel armor and a black outer jacket completes the cable construction. Rip cords are included under the inner jacket and each armor for ease of entry.

APPLICATIONS

- Direct bury, underground duct and lashed aerial
- Trunk, distribution and feeder cables
- Local loop, metro, long-haul and broadband network

FEATURES

- Available with up to 144-fiber
 Multiple fiber types including hybrids
- Dry (SAP) core standard
- Standard tube size for all fiber counts
- Corrugated steel armor
- PFM gel

- Multiple network applicationsReduces cable prep and installation time
- Reduces the number of tools required

• High fiber density

BENEFITS

- Improves compressive strength
 and rodent protection
- Non-sticky gel speeds fiber access and clean-up

Corrugated Steel Inner/Out Optical Fiber Gel-Filled Bu Water-Bloc Central Strength	in PFM™
-	-Blocking Members Rip Cords
UV Resist Central and Out	ant Inner,

SPECIFICATIONS	
Fiber Count	Available in 6-fiber up to 144-fiber
Standards Compliance	Telcordia® GR-20-CORE RDUP PE-90 Designation MLT ICEA S-87-640-2011 RoHS-compliant
Telcordia is a registered trademark of Ericsson Inc.	

ENVIRONMENTAL SPECIFICATIONS	
Operation/Storage	-40°C to +70°C
Installation	-30°C to +70°C

PART	NUMB	ER KEY						
1	С	-	_	_	х	Х	0	У
1	2	3	4	5	6	7	8	9
Product family		Fiber co	ount (00	6-144)	Fiber type	Inte desig		Water block/ marking (1-8)

Contact Customer Service for availability of non-standard offerings

PART NUMBERS AND PHYSICAL CHARACTERISTICS

				Maximum Tensile Loading		Minimum B	Bend Radius
Part Number ¹	Fiber Count	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)
1C006xx0y	6	0.73 (18.6)	229 (341)	600 (2,700)	200 (890)	14.6 (372)	7.3 (186)
1C012xx0y	12	0.73 (18.6)	229 (341)	600 (2,700)	200 (890)	14.6 (372)	7.3 (186)
1C024xx0y	24	0.73 (18.6)	229 (341)	600 (2,700)	200 (890)	14.6 (372)	7.3 (186)
1C036xx0y	36	0.73 (18.6)	229 (341)	600 (2,700)	200 (890)	14.6 (372)	7.3 (186)
1C048xx0y	48	0.73 (18.6)	229 (341)	600 (2,700)	200 (890)	14.6 (372)	7.3 (186)
1C072xx0y	72	0.76 (19.4)	252 (376)	600 (2,700)	200 (890)	15.2 (384)	7.6 (194)
1C096xx0y	96	0.83 (21.1)	289 (431)	600 (2,700)	200 (890)	16.6 (422)	8.3 (211)
1C144xx0y	144	0.96 (24.4)	376 (560)	600 (2,700)	200 (890)	19.2 (488)	9.6 (244)

FIBER TYPES:

SINGLE MOD

Re	duced	Zero TeraF		lex® Bend Resistant					TeraGain®	TeraFlex Bend Resistant Laser Optimized 50/125		
	Water Peak		G.657.A1	G.657.A2	G.657.B3	NZDS	LEAF	Hybrid	62.5/125	10G/150	10G/300	10G/550
¹ For \leq 36 fibers replace "xx" with:	3T	2T	KT	JT	LT	8T	ST	Н_	_ 6G	MG NG	NC	PG
¹ For > 36 fibers replace "xx" with:	31	21	К1	J1	L1	81	S1				NG	

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications

WATER BLOCK AND JACKET PRINT CODES									
	Dry	core	Dry core specia						
	Feet	Meters	Feet	Meters					
¹ Replace "y" with:	1	2	5	6					

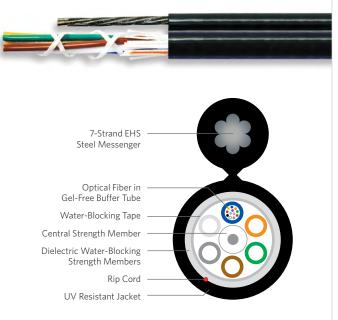
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800.551.8948 SuperiorEssex.com



Dri-Lite[®] Loose Tube Single Jacket Self Support

Series 11DM



SPECIFICATIONS

Standards Compliance

Fiber Count

Available in 6-fiber up to 288-fiber Telcordia® GR-20-CORE RDUP PE-90 Designation MLT-8 ICEA S-87-640-2011 RoHS-compliant

Telcordia is a registered trademark of Ericsson Inc.

PART NUMBER KEY											
1	1	_	_	_	х	D	Μ	У			
1	2	3	4	5	6	7	8	9			
	Product family Fiber count (006-28		6-288)	Fiber type	Internal designator		Water block/ marking (1-8)				

Contact Customer Service for availability of non-standard offerings.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

PRODUCT DESCRIPTION

Loose tube cables are the product of choice as the backbone in Outside Plant (OSP) applications. Loose tube self support cables are designed for use in aerial applications as an alternative to lashing. These cables reduce installation time and costs. Superior Essex offers self support cables for spans up to 700 feet. The loose tube design offers reliable transmission performance over a broad temperature range. The durable loose tube design features optical fibers placed inside gel-free buffer tubes. The core is constructed by stranding the buffer tubes around a central member using a reverse oscillating lay (ROL). The core is wrapped with flexible strength members, a water-blocking tape and then encased with a black jacket and an integrated EHS steel messenger. A rip cord is included under the jacket for ease of entry.

APPLICATIONS

- Aerial self support
- Trunk, distribution and feeder cable
- · Local loop, metro, long-haul and broadband network

FEATURES

- Available with up to 288-fiber
- Multiple fiber types including hybrids
- Dry (SAP) core standard
- Standard tube size for all fiber counts
- Conforms to standard pole attachment hardware
- Gel-free construction

• High fiber density

BENEFITS

- Multiple network applications
- Reduces cable prep and installation time
- Reduces the number of tools required
- Standard installation practices
- Speeds fiber access and clean-up

ENVIRONMENTAL SPECIFICATIONS

 Operation/Storage
 -40°C to +70°C

 Installation
 -30°C to +70°C

		Dime	nsions		Fiber Cable Maximum Te	Component nsile Loading	Support Messenger	Minimum Bend Radius	
Part Number ¹	Fiber Count	Minor in (mm)	Major in (mm)	Nominal Weight Ibs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Breaking Strength Ibs	Install in (mm)	Long Term in (mm)
11012xDMy	12	0.41 (10.4)	0.89 (22.6)	208 (310)	600 (2,700)	200 (890)	6,650	8.2 (208)	4.1 (104)
11024xDMy	24	0.41 (10.4)	0.89 (22.6)	208 (310)	600 (2,700)	200 (890)	6,650	8.2 (208)	4.1 (104)
11048xDMy	48	0.41 (10.4)	0.89 (22.6)	208 (310)	600 (2,700)	200 (890)	6,650	8.2 (208)	4.1 (104)
11072xDMy	72	0.43 (10.9)	0.93 (23.6)	224 (334)	600 (2,700)	200 (890)	6,650	8.6 (218)	4.3 (109)
11096xDMy	96	0.50 (12.7)	1.01 (25.7)	245 (365)	600 (2,700)	200 (890)	6,650	10.0 (254)	5.0 (127)
11144xDMy	144	0.63 (16.0)	1.13 (28.7)	290 (432)	600 (2,700)	200 (890)	6,650	12.6 (320)	6.3 (160)
11216xDMy	216	0.63 (16.0)	1.13 (28.7)	290 (432)	600 (2,700)	200 (890)	6,650	12.6 (320)	6.3 (160)
11288xDMy	288	0.74 (18.8)	1.24 (31.5)	327 (488)	600 (2,700)	200 (890)	6,650	14.8 (376)	7.4 (188)

FIBER TYPES:	SINGLE MODE						HYBRID	MULTIMO	MULTIMODE			
	Reduced Zero		TeraFlex [®] Bend Resistant						TeraGain®	TeraFlex Bend Resistant Laser Optimized 50/125		
			G.657.A1	G.657.A2	G.657.B3	NZDS	LEAF	Hybrid	62.5/125	10G/150	10G/300	10G/550
¹ Replace "x" with:	3	2	К	J	L	8	S	Н	6	Μ	Ν	Р

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

800.551.8948

SuperiorEssex.com

WATER BLOCK AND JACKET PRINT CODES										
	Dry	' core	Dry cor	e special						
	Feet	Meters	Feet	Meters						
¹ Replace "y" with:	1	2	5	6						



Dri-Lite[®] Loose Tube Double Jacket Self Support Series 1GDM

PRODUCT DESCRIPTION

Loose tube cables are the product of choice as the backbone in Outside Plant (OSP) applications. Loose tube self support cables are designed for use in aerial applications as an alternative to lashing. These cables reduce installation time and costs. Superior Essex offers self support cables for spans up to 700 feet. The loose tube design offers reliable transmission performance over a broad temperature range. Optical fibers are placed inside gel-free buffer tubes. The core is constructed by stranding the buffer tubes around a central member using a reverse oscillating lay (ROL) and wrapped with flexible strength members, a water-blocking tape and then encased with a black inner jacket. Flexible strength members are applied and a black outer jacket with integrated EHS steel messenger completes the cable construction. Rip cords are included under each jacket for ease of entry.

APPLICATIONS

- Aerial self support
- Trunk, distribution and feeder cable
- · Local loop, metro, long-haul and broadband network

FEATURES	BENEFITS
• Available with up to 120-fiber	High fiber density
 Multiple fiber types including hybrids 	Multiple network applications
Dry (SAP) core standard	 Reduces cable prep and installation time
 Conforms to standard pole attachment hardware 	Standard installation practices
 Gel-free construction 	• Speeds fiber access and clean-up

Operation/Storage -40°C to +70°C	
Installation -30°C to +70°C	

PART NUMBERS AND PHYSICAL CHARACTERISTICS

		Dime	nsions		Fiber Cable Maximum Te		Support Messenger	Minimum Bend Radius		
Part Number ¹	Fiber Count	Minor in (mm)	Major in (mm)	Nominal Weight Ibs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Breaking Strength Ibs	Install in (mm)	Long Term in (mm)	
1G006xDMy	6	0.50 (12.8)	0.99 (25.0)	242 (360)	600 (2,700)	200 (890)	6,650	10.0 (256)	5.0 (128)	
1G012xDMy	12	0.50 (12.8)	0.99 (25.0)	242 (360)	600 (2,700)	200 (890)	6,650	10.0 (256)	5.0 (128)	
1G024xDMy	24	0.50 (12.8)	0.99 (25.0)	242 (360)	600 (2,700)	200 (890)	6,650	10.0 (256)	5.0 (128)	
1G036xDMy	36	0.50 (12.8)	0.99 (25.0)	242 (360)	600 (2,700)	200 (890)	6,650	10.0 (256)	5.0 (128)	
1G048xDMy	48	0.50 (12.8)	0.99 (25.0)	242 (360)	600 (2,700)	200 (890)	6,650	10.0 (256)	5.0 (128)	
1G072xDMy	72	0.53 (13.4)	1.03 (26.0)	257 (382)	600 (2,700)	200 (890)	6,650	10.6 (268)	5.3 (134)	
1G096xDMy	96	0.59 (15.1)	1.10 (28.0)	279 (415)	600 (2,700)	200 (890)	6,650	11.8 (302)	5.9 (151)	
1G120xDMy	120	0.66 (16.8)	1.26 (32.0)	343 (510)	600 (2,700)	200 (890)	6,650	13.2 (336)	6.6 (168)	

FIBER TYPES:	SINGLE MODE								MULTIMO	DE		
	Reduced	Zero	TeraFle	ex® Bend Re	sistant				TeraGain®	TeraFlex Bend R	esistant Laser Op	otimized 50/125
		Water Peak	G.657.A1	G.657.A2	G.657.B3	NZDS	LEAF	Hybrid	62.5/125	10G/150	10G/300	10G/550
¹ Replace "x" with:	3	2	К	J	L	8	S	Н	6	Μ	Ν	Р

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

WATER BLOCK AND JACKET PRINT CODES								
	Dry	' core	Dry cor	e special				
	Feet	Meters	Feet	Meters				
¹ Replace "y" with:	1	2	5	6				

Rev 7/15

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_	All information, content, data, specifications, packaging and part numbers detailed herein are subject to change. For the most up-to-date information, please
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B-15

7-Strand EHS Steel Messenger
Dielectric Water-Blocking Strength Members
Optical Fiber in Gel-Free Buffer Tube
Central Strength Member
Water-Blocking Tape
Rip Cords
UV Resistant Inner/Outer Jackets

SPECIFICATIONS	
Fiber Count	Available in 6-fiber up to 120-fiber
Standards Compliance	Telcordia® GR-20-CORE RDUP PE-90 Designation MLT-8 ICEA S-87-640-2011 RoHS-compliant
Telcordia is a registered trademark of Ericsson Inc.	

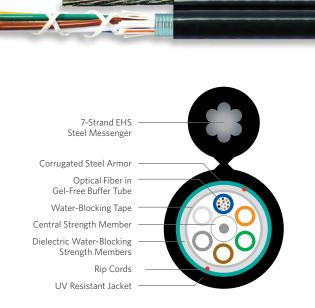
PART	NUME	BER KEY						
1	G	_	_	_	х	D	Μ	У
1	2	3	4	5	6	7	8	9
Proc	duct				Fiber	Inte	rnal	Water block/

Ŧ	2	5	4	5	0	/	0	2	
Produ fami		Fiber co	ount (00	6-120)	Fiber type		rnal nator	Water block marking (1-	·

Contact Customer Service for availability of non-standard offerings.

Dri-Lite[®] Loose Tube Single Jacket Single Armor Self Support Series 12DM

OSP CABLE



SPECIFICATIONS

12288xDMv

Fiber Count Standards Compliance Available in 6-fiber up to 288-fiber Telcordia® GR-20-CORE RDUP PE-90 Designation MLT-8 ICEA S-87-640-2011 RoHS-compliant

Telcordia is a registered trademark of Ericsson Inc

PART	NUME	BER KEY						
1	2	_	_	_	х	D	Μ	У
1	2	3	4	5	6	7	8	9
Product Fiber count (006-288) family				Fiber type		rnal nator	Water block/ marking (1-8)	

Contact Customer Service for availability of non-standard offerings

PART NUMBERS AND PHYSICAL CHARACTERISTICS

PRODUCT DESCRIPTION

Loose tube cables are the product of choice as the backbone in Outside Plant (OSP) applications. Loose tube self support cables are designed for use in aerial applications as an alternative to lashing. These cables reduce installation time and costs. Superior Essex offers self support cables for spans up to 700 feet. The loose tube design offers reliable transmission performance over a broad temperature range. The durable loose tube design features optical fibers placed inside gel-free buffer tubes. The core is constructed by stranding the buffer tubes around a central member using a reverse oscillating lay (ROL) and wrapped with flexible strength members covered with a water-blocking tape. A corrugated steel armor is applied and then encased in a black jacket with an integrated EHS steel messenger. Rip cords are included under the armor for ease of entry.

APPLICATIONS

- Aerial self support
- Trunk, distribution and feeder cable
- Local loop, metro, long-haul and broadband network .

FEATURES

•	Available with up to 288-fiber	•	High fiber density
•	Multiple fiber types including hybrids	•	Multiple network applications
•	Dry (SAP) core standard	•	Reduces cable prep and installation time
•	Corrugated steel armor	•	Improves compressive strength and rodent protection
•	Utilizes standard pole attachment hardware	•	Standard installation practices
•	Gel-free construction	•	Speeds fiber access and clean-up

6,650

16.0 (406)

8.0 (203)

BENEFITS

-40°C to +70°C

-30°C to +70°C

ENVIRONMENTAL SPECIFICATIONS

200 (890)

Operation/Storage Installation

Fiber Cable Component Dimensions Maximum Tensile Loading Minimum Bend Radius Support Messenger Minor Maior Nominal Weight Install Long Term **Breaking Strength** Install Long Term Part Number¹ Fiber Count lbs/kft (kg/km) lbs (N) lbs (N) in (mm) in (mm) in (mm) in (mm) lbs 0.46 (11.7) 12012xDMy 12 0.94 (23.9) 249 (371) 600 (2,700) 200 (890) 6,650 9.2 (234) 4.6 (117) 12024xDMy 24 0.46 (11.7) 0.94 (23.9) 249 (371) 600 (2,700) 200 (890) 6,650 9.2 (234) 4.6 (117) 12048xDMy 48 0.46 (11.7) 0.94 (23.9) 249 (371) 600 (2,700) 200 (890) 6,650 9.2 (234) 4.6 (117) 12072xDMy 72 0.49 (12.4) 0.99 (25.1) 600 (2,700) 200 (890) 9.8 (249) 4.9 (124) 266 (397) 6,650 12096xDMy 96 0.56 (14.2) 1.09 (27.7) 306 (456) 600 (2,700) 200 (890) 6,650 11.2 (284) 5.6 (142) 12144xDMy 144 0.69 (17.5) 1.19 (30.2) 348 (519) 600 (2,700) 200 (890) 6,650 13.8 (351) 6.9 (175) 12216xDMy 216 0.69(17.5)1 19 (30 2) 348 (519) 600(2700)200 (890) 6 6 5 0 138 (351) 69(175)

600 (2.700)

FIBER TYPES:	SINGLE MODE						HYBRID	MULTIMO	DE			
	Reduced	Zero	TeraFle	ex® Bend Re	sistant				TeraGain®	TeraFlex Bend R	esistant Laser Op	timized 50/125
	Water Peak	Water Peak	G.657.A1	G.657.A2	G.657.B3	NZDS	LEAF	Hybrid	62.5/125	10G/150	10G/300	10G/550
¹ Replace "x" with:	3	2	К	J	L	8	S	Н	6	Μ	Ν	Р

394 (588)

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

0.80 (20.3)

1.30 (33.0)

WATER BLOCK AND JACKET PRINT CODES						
	Dry core		Dry core speci			
	Feet	Meters	Feet	Meters		
¹ Replace "y" with:	1	2	5	6		

288



Dri-Lite[®] Loose Tube Double Jacket Single Armor Self Support Series 1ADM

PRODUCT DESCRIPTION

Loose tube cables are the product of choice as the backbone in Outside Plant (OSP) applications. Loose tube self support cables are designed for use in aerial applications as an alternative to lashing. These cables reduce installation time and costs. Superior Essex offers self support cables for spans up to 700 feet. The loose tube design offers reliable transmission performance over a broad temperature range. Optical fibers are placed inside gel-free buffer tubes. The core is constructed by stranding the buffer tubes around a central member using a reverse oscillating lay (ROL). The core is wrapped with flexible strength members covered with a water-blocking tape then encased with a black polyethylene inner jacket. Water-blocking yarns and a corrugated steel armor are applied and a black outer jacket with an integrated EHS steel messenger completes the cable construction. Rip cords are included under the armor and inner jacket for ease of entry.

APPLICATIONS

- Aerial self support
- Trunk, distribution and feeder cable
- · Local loop, metro, long-haul and broadband network

FEATURES	BENEFITS
• Available with up to 120-fiber	High fiber density
 Multiple fiber types including hybrids 	Multiple network applications
Dry (SAP) core standard	 Reduces cable prep and installation time
Corrugated steel armor	 Improves compressive strength and rodent protection
 Utilizes standard pole attachment hardware 	Standard installation practices
Gel-free construction	Speeds fiber access and clean-up

ENVIRONMENTAL SPECIFICATIONS

Operation/Storage	-40°C to +70°C
Installation	-30°C to +70°C

CHAD

		Dime	nsions		Fiber Cable Maximum Te	Component nsile Loading	Support Messenger	Minimum E	Bend Radius
Part Number ¹	Fiber Count	Minor in (mm)	Major in (mm)	Nominal Weight Ibs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Breaking Strength Ibs	Install in (mm)	Long Term in (mm)
1A006xDMy	6	0.56 (14.1)	1.03 (26.0)	287 (427)	600 (2,700)	200 (890)	6,650	11.2 (282)	5.6 (141)
1A012xDMy	12	0.56 (14.1)	1.03 (26.0)	287 (427)	600 (2,700)	200 (890)	6,650	11.2 (282)	5.6 (141)
1A024xDMy	24	0.56 (14.1)	1.03 (26.0)	287 (427)	600 (2,700)	200 (890)	6,650	11.2 (282)	5.6 (141)
1A036xDMy	36	0.56 (14.1)	1.03 (26.0)	287 (427)	600 (2,700)	200 (890)	6,650	11.2 (282)	5.6 (141)
1A048xDMy	48	0.56 (14.1)	1.03 (26.0)	287 (427)	600 (2,700)	200 (890)	6,650	11.2 (282)	5.6 (141)
1A072xDMy	72	0.58 (14.9)	1.12 (28.0)	322 (479)	600 (2,700)	200 (890)	6,650	11.6 (298)	5.8 (149)
1A096xDMy	96	0.65 (16.6)	1.18 (30.0)	354 (527)	600 (2,700)	200 (890)	6,650	13.0 (332)	6.5 (166)
1A120xDMy	120	0.72 (18.3)	1.35 (34.0)	432 (643)	600 (2,700)	200 (890)	6,650	14.4 (376)	7.2 (183)
FIBER TYPES:	SINGLE MC	DE			НҮ	BRID MULT	IMODE		
	Reduced	Zero	TeraFlex® Bend	d Resistant		TeraG	ain [®] TeraFlex Bend Res	istant Laser Opt	imized 50/12

Reduced Zero <u>TeraGain®</u> TeraGain® <u>TeraGain®</u> Water Peak Water Peak G.657.A1 G.657.A2 G.657.B3 NZDS LEAF Hybrid 62.5/125 10G/150	10G/300	100 /000	
	100/300	106/550	10G/550
¹ Replace "x" with: 3 2 K J L 8 S H 6 M	Ν	Р	Р

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications

WATER BLOCK AND JACKET PRINT CODES						
	Dry	core	Dry core specia			
	Feet	Meters	Feet	Meters		
¹ Replace "y" with:	1	2	5	6		

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Optical Fiber in

Rip Cords

Gel-Free Buffer Tube

Water-Blocking Tape

Central Strength Member

UV Resistant Inner/Outer Jackets

SPECIFICATIONS				
Fiber Count	Available	e in 6-fibe	er up to 120-	fibe
Standards Compliance	Telcordia® GR-20-CORE RDUP PE-90 Designation ML ICEA S-87-640-2011 RoHS-compliant			
Telcordia is a registered trademark of Ericsson Inc.				
PART NUMBER KEY				
1 Δ	v	D	M	,

PART	NUMB	ER KEY						
1	А	_	_	_	х	D	Μ	У
1	2	3	4	5	6	7	8	9
Product family Fiber count (006-120)		Fiber type	Inte desig		Water block/ marking (1-8)			

Contact Customer Service for availability of non-standard offerings.

Loose Tube Single Jacket Self Support

Series 11M

Central Strength Members Dielectric Water-Blocking Strength Members Rip Cord UV Resistant Jacket	
SPECIFICATIONS	
Fiber Count	Available in 6-fiber up to 288-fiber
Standards Compliance	Telcordia® GR-20-CORE RDUP PE-90 Designation MLT-8

ICEA S-87-640-2011 RoHS-compliant

PART	NUM	BER KEY							
1	1	_	_	_	х	х	Μ	У	
1	2	3	4	5	6	7	8	9	
Product family		Fiber count (006-288)			Fiber type	Internal designator		Water block/ marking (1-8)	

Contact Customer Service for availability of non-standard offerings.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

PRODUCT DESCRIPTION

Loose tube cables are the product of choice as the backbone in Outside Plant (OSP) applications. Loose tube self support cables are designed for use in aerial applications as an alternative to lashing. These cables reduce installation time and costs. Superior Essex offers self support cables for spans up to 700 feet. The loose tube design offers reliable transmission performance over a broad temperature range. The durable loose tube design features optical fibers placed inside PFM[™] gel-filled buffer tubes. The core is constructed by stranding the buffer tubes around a central member using a reverse oscillating lay (ROL). The core is wrapped with flexible strength members, a waterblocking tape and then encased with a black jacket and an integrated EHS steel messenger. A rip cord is included under the jacket for ease of entry.

APPLICATIONS

- Aerial self support
- Trunk, distribution and feeder cable
- · Local loop, metro, long-haul and broadband network

FEATURES

- Available with up to 288-fiber Multiple fiber types
- including hybrids Dry (SAP) core standard
- Standard tube size . for all fiber counts
- Conforms to standard pole attachment hardware
- PFM gel

• High fiber density Multiple network applications

BENEFITS

- . Reduces cable prep and installation time
- Reduces the number of tools required
- Standard installation practices .
- Non-sticky gel speeds fiber access and clean-up

ENVIRONMENTAL SPECIFICATIONS

Operation/Storage	-40°C to +70°C
Installation	-30°C to +70°C

			Dimensions			Component nsile Loading	Support Messenger	Minimum Bend Radius	
Part Number ¹	Fiber Count	Minor in (mm)	Major in (mm)	Nominal Weight Ibs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Breaking Strength Ibs	Install in (mm)	Long Term in (mm)
11012xxMy	12	0.41 (10.4)	0.89 (22.6)	208 (310)	600 (2,700)	200 (890)	6,650	8.2 (208)	4.1 (104)
11024xxMy	24	0.41 (10.4)	0.89 (22.6)	208 (310)	600 (2,700)	200 (890)	6,650	8.2 (208)	4.1 (104)
11048xxMy	48	0.41 (10.4)	0.89 (22.6)	208 (310)	600 (2,700)	200 (890)	6,650	8.2 (208)	4.1 (104)
11072xxMy	72	0.43 (10.9)	0.93 (23.6)	224 (334)	600 (2,700)	200 (890)	6,650	8.6 (218)	4.3 (109)
11096xxMy	96	0.50 (12.7)	1.01 (25.7)	245 (365)	600 (2,700)	200 (890)	6,650	10.0 (254)	5.0 (127)
11144xxMy	144	0.63 (16.0)	1.13 (28.7)	290 (432)	600 (2,700)	200 (890)	6,650	12.6 (320)	6.3 (160)
11216xxMy	216	0.63 (16.0)	1.13 (28.7)	290 (432)	600 (2,700)	200 (890)	6,650	12.6 (320)	6.3 (160)
11288xxMy	288	0.74 (18.8)	1.24 (31.5)	327 (488)	600 (2,700)	200 (890)	6,650	14.8 (376)	7.4 (188)

FIBER TYPES:	SINGLE MC	SINGLE MODE						HYBRID	MULTIMODE			
	Reduced	Zero	TeraFlex [®] Bend Resistant						TeraGain®	TeraFlex Bend Resistant Laser Optimized 50/125		
	Water Peak	Water Peak	G.657.A1	G.657.A2	G.657.B3	NZDS	DS LEAF	Hybrid	62.5/125	10G/150	10G/300	10G/550
¹ For \leq 36 fibers replace "xx" with:	ЗT	2T	KT	JT	LT	8T	ST		6G	MC	NG	PG
¹ For > 36 fibers replace "xx" with:	31	21	K1	J1	L1	81	S1	п_	00	MG	NG	гu

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

WATER BLOCK AI	ND JAC	KET PRIN	IT CODE	S	
	Dry	' core	Dry core spec Feet Mete		
	Feet	Meters			
¹ Replace "v" with	1	2	5	6	



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Loose Tube Double Jacket Self Support

PRODUCT DESCRIPTION

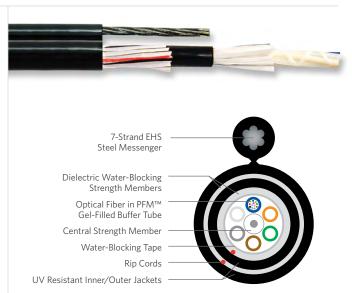
Loose tube cables are the product of choice as the backbone in Outside Plant (OSP) applications. Loose tube self support cables are designed for use in aerial applications as an alternative to lashing. These cables reduce installation time and costs. Superior Essex offers self support cables for spans up to 700 feet. The loose tube design offers reliable transmission performance over a broad temperature range. Optical fibers are placed inside filled buffer tubes containing PFM[™] gel. The core is constructed by stranding the buffer tubes around a central member using a reverse oscillating lay (ROL) and wrapped with flexible strength members, a water-blocking tape and then encased with a black inner jacket. Flexible strength members are applied and a black outer jacket with integrated EHS steel messenger completes the cable construction. Rip cords are included under each jacket for ease of entry.

APPLICATIONS

- · Aerial self support
- Trunk, distribution and feeder cable
- · Local loop, metro, long-haul and broadband network

FEATURES	BENEFITS
• Available with up to 120-fiber	High fiber density
 Multiple fiber types including hybrids 	Multiple network applications
Dry (SAP) core standard	 Reduces cable prep and installation time
 Conforms to standard pole attachment hardware 	Standard installation practices
• PFM gel	 Non-sticky gel speeds fiber access and clean-up
ENVIRONMENTAL SPECIFICATIONS	
Operation/Storage	-40°C to +70°C
Installation	-30°C to +70°C

PART NUMBERS AND PHYSICAL CHARACTERISTICS



SPECIFICATIONS Fiber Count

Standards Compliance

Available in 6-fiber up to 120-fiber Telcordia® GR-20-CORE RDUP PE-90 Designation MLT-8 ICEA S-87-640-2011 RoHS-compliant

Telcordia is a registered trademark of Ericsson Inc.

PART	NUME	ER KEY						
1	G	_	_	_	х	х	Μ	У
1	2	3	4	5	6	7	8	9
	Product family Fiber count (006-120)		Fiber type	Internal designator		Water block/ marking (1-8)		

Contact Customer Service for availability of non-standard offerings.

Part Number ¹	Fiber Count	Minor	Major				Support Messenger	i i i i i i i i i i i i i i i i i i i	end Radius
Part Number	riber eeune	in (mm)	in (mm)	Nominal Weight lbs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Breaking Strength Ibs	Install in (mm)	Long Term in (mm)
1G006xxMy	6	0.50 (12.8)	0.99 (25.0)	242 (360)	600 (2,700)	200 (890)	6,650	10.0 (256)	5.0 (128)
1G012xxMy	12	0.50 (12.8)	0.99 (25.0)	242 (360)	600 (2,700)	200 (890)	6,650	10.0 (256)	5.0 (128)
1G024xxMy	24	0.50 (12.8)	0.99 (25.0)	242 (360)	600 (2,700)	200 (890)	6,650	10.0 (256)	5.0 (128)
1G036xxMy	36	0.50 (12.8)	0.99 (25.0)	242 (360)	600 (2,700)	200 (890)	6,650	10.0 (256)	5.0 (128)
1G048xxMy	48	0.50 (12.8)	0.99 (25.0)	242 (360)	600 (2,700)	200 (890)	6,650	10.0 (256)	5.0 (128)
1G072xxMy	72	0.53 (13.4)	1.03 (26.0)	257 (382)	600 (2,700)	200 (890)	6,650	10.6 (268)	5.3 (134)
1G096xxMy	96	0.59 (15.1)	1.10 (28.0)	279 (415)	600 (2,700)	200 (890)	6,650	11.8 (302)	5.9 (151)
1G120xxMy	120	0.66 (16.8)	1.26 (32.0)	343 (510)	600 (2,700)	200 (890)	6,650	13.2 (336)	6.6 (168)

FIBER TYPES:	SINGLE MC	DE						HYBRID	MULTIMO	MULTIMODE				
	Reduced	Zero	TeraFle	ex® Bend Re	sistant				TeraGain®		TeraFlex Bend Resistant Laser Optimized 50/12			
	Water Peak		G.657.A1	G.657.A2	G.657.B3	NZDS	LEAF	Hybrid	62.5/125	10G/150	10G/300	10G/550		
¹ For \leq 36 fibers replace "xx" with:	ЗT	2T	KT	JT	LT	8T	ST		(6	MC	NC	DC		
¹ For > 36 fibers replace "xx" with:	31	21	K1	J1	L1	81	S1	н_	6G	MG	NG	PG		

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

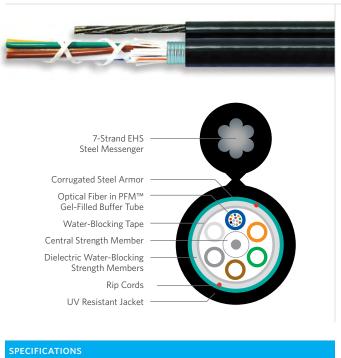
WATER BLOCK A	ATER BLOCK AND JACKET PRINT CODES									
	Dry	core	Dry cor	e special						
	Feet	Meters	Feet	Meters						
¹ Replace "y" with:	1	2	5	6						

Rev 7/15 All information, content, data, specifications, packaging and part numbers detailed herein are subject to change. For the most up-to-date information, please visit SuperiorEssex.com. Purchase of this product is subject exclusively to the then current Superior Essex International LP Terms and Conditions of Sale for Communications and Energy Cable, Wire and Connectivity Products, which can be found on our website, SuperiorEssex.com, or provided to you upon request.



Loose Tube Single Jacket Single Armor Self Support

Series 12M



Fiber Count Standards Compliance Available in 6-fiber up to 288-fiber Telcordia® GR-20-CORE RDUP PE-90 Designation MLT-8 ICEA S-87-640-2011 RoHS-compliant

Telcordia is a registered trademark of Ericsson Inc.

PART	NUME	BER KEY						
1	2	_	_	_	х	х	Μ	У
1	2	3	4	5	6	7	8	9
	Product family Fiber count (006-288)		Fiber type	Internal designator		Water block/ marking (1-8)		

Contact Customer Service for availability of non-standard offerings.

PART NUMBERS AND PHYSICAL CHARACTERISTIC

PRODUCT DESCRIPTION

Loose tube cables are the product of choice as the backbone in Outside Plant (OSP) applications. Loose tube self support cables are designed for use in aerial applications as an alternative to lashing. These cables reduce installation time and costs. Superior Essex offers self support cables for spans up to 700 feet. The loose tube design offers reliable transmission performance over a broad temperature range. The durable loose tube design features optical fibers placed inside PFM[™] gel-filled buffer tubes. The core is constructed by stranding the buffer tubes around a central member using a reverse oscillating lay (ROL) and wrapped with flexible strength members covered with a water-blocking tape. A corrugated steel armor is applied and then encased in a black jacket with an integrated EHS steel messenger. Rip cords are included under the armor for ease of entry.

APPLICATIONS

- Aerial self support
- Trunk, distribution and feeder cable .
- · Local loop, metro, long-haul and broadband network

FEATURES

ENVIRONMENTAL SPECIFICATIONS	
	access and clean-up
 PFM gel 	 Non-sticky gel speeds fiber
 Utilizes standard pole attachment hardware 	Standard installation practices
Corrugated steel armor	 Improves compressive strength and rodent protection
Dry (SAP) core standard	 Reduces cable prep and installation time
 Multiple fiber types including hybrids 	Multiple network applications
• Available with up to 288-fiber	High fiber density

BENEFITS

Operation/Storage	-40°C to +70°C
Installation	-30°C to +70°C

Part Number1Fiber CountMinor in (mm)Major in (mm)Nominal Weight lbs/kft (kg/km)Install lbs (N)Long Term lbs (N)Breaking Strength lbsInstall in (mm)Install in (mm)Install <br< th=""><th></th><th></th><th>Dime</th><th>nsions</th><th></th><th></th><th>Component nsile Loading</th><th>Support Messenger</th><th colspan="2">Minimum Bend Radius</th></br<>			Dime	nsions			Component nsile Loading	Support Messenger	Minimum Bend Radius	
12024xxMy 24 0.46 (11.7) 0.94 (23.9) 249 (371) 600 (2,700) 200 (890) 6,650 9.2 (234) 4 12048xxMy 48 0.46 (11.7) 0.94 (23.9) 249 (371) 600 (2,700) 200 (890) 6,650 9.2 (234) 4 12048xxMy 48 0.46 (11.7) 0.94 (23.9) 249 (371) 600 (2,700) 200 (890) 6,650 9.2 (234) 4 12072xxMy 72 0.49 (12.4) 0.99 (25.1) 266 (397) 600 (2,700) 200 (890) 6,650 9.8 (249) 4 12096xxMy 96 0.56 (14.2) 1.09 (27.7) 306 (456) 600 (2,700) 200 (890) 6,650 11.2 (284) 55 12144xxMy 144 0.69 (17.5) 1.19 (30.2) 348 (519) 600 (2,700) 200 (890) 6,650 13.8 (351) 60 12216xxMy 216 0.69 (17.5) 1.19 (30.2) 348 (519) 600 (2,700) 200 (890) 6,650 13.8 (351) 60	Part Number ¹	Fiber Count					0	Breaking Strength		Long Term in (mm)
12048xxMy 48 0.46 (11.7) 0.94 (23.9) 249 (371) 600 (2,700) 200 (890) 6,650 9.2 (234) 4 12072xxMy 72 0.49 (12.4) 0.99 (25.1) 266 (397) 600 (2,700) 200 (890) 6,650 9.8 (249) 4 12096xxMy 96 0.56 (14.2) 1.09 (27.7) 306 (456) 600 (2,700) 200 (890) 6,650 11.2 (284) 5 12144xxMy 144 0.69 (17.5) 1.19 (30.2) 348 (519) 600 (2,700) 200 (890) 6,650 13.8 (351) 6 12216xxMy 216 0.69 (17.5) 1.19 (30.2) 348 (519) 600 (2,700) 200 (890) 6,650 13.8 (351) 6	12012xxMy	12	0.46 (11.7)	0.94 (23.9)	249 (371)	600 (2,700)	200 (890)	6,650	9.2 (234)	4.6 (117)
12072xxMy 72 0.49 (12.4) 0.99 (25.1) 266 (397) 600 (2,700) 200 (890) 6,650 9.8 (249) 4 12096xxMy 96 0.56 (14.2) 1.09 (27.7) 306 (456) 600 (2,700) 200 (890) 6,650 11.2 (284) 5 12144xxMy 144 0.69 (17.5) 1.19 (30.2) 348 (519) 600 (2,700) 200 (890) 6,650 13.8 (351) 6 12216xxMy 216 0.69 (17.5) 1.19 (30.2) 348 (519) 600 (2,700) 200 (890) 6,650 13.8 (351) 6	12024xxMy	24	0.46 (11.7)	0.94 (23.9)	249 (371)	600 (2,700)	200 (890)	6,650	9.2 (234)	4.6 (117)
12096xxMy 96 0.56 (14.2) 1.09 (27.7) 306 (456) 600 (2,700) 200 (890) 6,650 11.2 (284) 5 12144xxMy 144 0.69 (17.5) 1.19 (30.2) 348 (519) 600 (2,700) 200 (890) 6,650 13.8 (351) 6 12216xxMy 216 0.69 (17.5) 1.19 (30.2) 348 (519) 600 (2,700) 200 (890) 6,650 13.8 (351) 6	12048xxMy	48	0.46 (11.7)	0.94 (23.9)	249 (371)	600 (2,700)	200 (890)	6,650	9.2 (234)	4.6 (117)
12144xxMy 144 0.69 (17.5) 1.19 (30.2) 348 (519) 600 (2,700) 200 (890) 6,650 13.8 (351) 6 12216xxMy 216 0.69 (17.5) 1.19 (30.2) 348 (519) 600 (2,700) 200 (890) 6,650 13.8 (351) 6	12072xxMy	72	0.49 (12.4)	0.99 (25.1)	266 (397)	600 (2,700)	200 (890)	6,650	9.8 (249)	4.9 (124)
12216xxMy 216 0.69 (17.5) 1.19 (30.2) 348 (519) 600 (2,700) 200 (890) 6,650 13.8 (351) 6	12096xxMy	96	0.56 (14.2)	1.09 (27.7)	306 (456)	600 (2,700)	200 (890)	6,650	11.2 (284)	5.6 (142)
	12144xxMy	144	0.69 (17.5)	1.19 (30.2)	348 (519)	600 (2,700)	200 (890)	6,650	13.8 (351)	6.9 (175)
12288xxMy 288 0.80 (20.3) 1.30 (33.0) 394 (588) 600 (2,700) 200 (890) 6,650 16.0 (406) 8	12216xxMy	216	0.69 (17.5)	1.19 (30.2)	348 (519)	600 (2,700)	200 (890)	6,650	13.8 (351)	6.9 (175)
	12288xxMy	288	0.80 (20.3)	1.30 (33.0)	394 (588)	600 (2,700)	200 (890)	6,650	16.0 (406)	8.0 (203)

FIBER TYPES:	SINGLE MC	SINGLE MODE						HYBRID	MULTIMODE			
	Reduced	Zero	TeraFle	TeraFlex [®] Bend Resistant					TeraGain®		TeraFlex Bend Resistant Laser Optimized 50/125	
	Water Peak		G.657.A1	G.657.A2	G.657.B3	NZDS	LEAF	Hybrid		10G/150	10G/300	10G/550
¹ For \leq 36 fibers replace "xx" with:	ЗT	2T	KT	JT	LT	8T	ST		10	MC	NIC	DC
¹ For > 36 fibers replace "xx" with:	31	21	K1	J1	L1	81	S1	H_	6G	MG	NG	PG

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

5

WATER BLOCK A	ND JAC	KET PRIN	IT CODI	ES	
	Dry	core	Dry core speci		
	Feet	Meters	Feet	Meters	

1

¹Replace "y" with:



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Loose Tube Double Jacket Single Armor Self Support Series 1AM

In the second second

7-Strand EHS Steel Messenger

Corrugated Steel Armor

Strength Members

Optical Fiber in PFM™

Gel-Filled Buffer Tube

Water-Blocking Tape

Rip Cords

Central Strength Member

UV Resistant Inner/Outer Jackets

Dielectric Water-Blocking

PRODUCT DESCRIPTION

Loose tube cables are the product of choice as the backbone in Outside Plant (OSP) applications. Loose tube self support cables are designed for use in aerial applications as an alternative to lashing. These cables reduce installation time and costs. Superior Essex offers self support cables for spans up to 700 feet. The loose tube design offers reliable transmission performance over a broad temperature range. Optical fibers are placed inside filled buffer tubes containing PFM[™] gel. The core is constructed by stranding the buffer tubes around a central member using a reverse oscillating lay (ROL). The core is wrapped with flexible strength members covered with a water-blocking tape then encased with a black polyethylene inner jacket. Water-blocking yarns and a corrugated steel armor are applied and a black outer jacket with an integrated EHS steel messenger completes the cable construction. Rip cords are included under the armor and inner jacket for ease of entry.

APPLICATIONS

- Aerial self support
- Trunk, distribution and feeder cable
- · Local loop, metro, long-haul and broadband network

FEATURES	BENEFITS
• Available with up to 120-fiber	High fiber density
 Multiple fiber types including hybrids 	Multiple network applications
Dry (SAP) core standard	 Reduces cable prep and installation time
Corrugated steel armor	 Improves compressive strength and rodent protection
 Utilizes standard pole attachment hardware 	Standard installation practices
PFM gel	 Non-sticky gel speeds fiber access and clean-up
ENVIRONMENTAL SPECIFICATIONS	
Operation/Storage	-40°C to +70°C
Installation	-30°C to +70°C

Installation		-50 C 10	+70 C		Contact Customer Service for availability of non-standard offerings.							
PART NUMBERS	S AND PHYSIC	L CHARACTER	ізтіся									
		Dime	Dimensions		Fiber Cable Component Maximum Tensile Loading		Support Messenger	Minimum E	end Radius			
Part Number ¹	Fiber Count	Minor in (mm)	Major in (mm)	Nominal Weight Ibs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Breaking Strength Ibs	Install in (mm)	Long Term in (mm)			
1A006xxMy	6	0.56 (14.1)	1.03 (26.0)	287 (427)	600 (2,700)	200 (890)	6,650	11.2 (282)	5.6 (141)			
1A012xxMy	12	0.56 (14.1)	1.03 (26.0)	287 (427)	600 (2,700)	200 (890)	6,650	11.2 (282)	5.6 (141)			
1A024xxMy	24	0.56 (14.1)	1.03 (26.0)	287 (427)	600 (2,700)	200 (890)	6,650	11.2 (282)	5.6 (141)			
1A036xxMy	36	0.56 (14.1)	1.03 (26.0)	287 (427)	600 (2,700)	200 (890)	6,650	11.2 (282)	5.6 (141)			
1A048xxMy	48	0.56 (14.1)	1.03 (26.0)	287 (427)	600 (2,700)	200 (890)	6,650	11.2 (282)	5.6 (141)			
1A072xxMy	72	0.58 (14.9)	1.12 (28.0)	322 (479)	600 (2,700)	200 (890)	6,650	11.6 (298)	5.8 (149)			
1A096xxMy	96	0.65 (16.6)	1.18 (30.0)	354 (527)	600 (2,700)	200 (890)	6,650	13.0 (332)	6.5 (166)			
1A120xxMy	120	0.72 (18.3)	1.35 (34.0)	432 (643)	600 (2,700)	200 (890)	6,650	14.4 (376)	7.2 (183)			

FIBER TYPES:	SINGLE MC	SINGLE MODE							MULTIMODE			
	Reduced	Zero	TeraFle	TeraFlex [®] Bend Resistant					TeraGain®	TeraFlex Bend Resistant Laser Optimized 50/125		
	Water Peak	Water Peak	G.657.A1	G.657.A2	G.657.B3	NZDS	LEAF	Hybrid	62.5/125	10G/150	10G/300	10G/550
¹ For \leq 36 fibers replace "xx" with:	ЗT	2T	KT	JT	LT	8T	ST			MC	NC	DC
¹ For > 36 fibers replace "xx" with:	31	21	K1	J1	L1	81	S1	H_	6G	MG	NG	PG

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

WATER BLOCK AND JACKET PRINT CODES									
	Dry	core	Dry cor	e special					
	Feet	Meters	Feet	Meters					
¹ Replace "y" with:	1	2	5	6					

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B-21

Product family	Fiber count (00	6-120)	Fiber type	Internal designator	
Contact Custome	r Service for availabil	ity of non-	standard of	ferings.	
	e Component			N 41	

RoHS-compliant Telcordia is a registered trademark of Ericsson Inc.

SPECIFICATIONS Fiber Count

Standards Compliance

PART NUMBER KEY										
1	А	_	_	_	х	х	Μ	У		
1	2	3	4	5	6	7	8	9		
	duct nily	Fiber c	ount (00	6-120)	Fiber type		rnal nator	Water block/ marking (1-8)		

Available in 6-fiber up to 120-fiber Telcordia® GR-20-CORE RDUP PE-90 Designation MLT-8

ICEA S-87-640-2011

<text>

SPECIFICATIONS Fiber Count Available in 6-fiber up to 288-fiber Standards Compliance Telcordia® GR-20-CORE RDUP PE-90 Designation MLT-8 ICEA S-87-640-2011 RoHS-compliant

Telcordia is a registered trademark of Ericsson Inc.

PART	NUME	BER KEY						
1	1	_	_	_	K or J	D	L or K	У
1	2	3	4	5	6	7	8	9
Proo fan		Fiber co	ount (006	5-288)	Fiber type		ernal gnator	Water block/ marking (1-8)

Contact Customer Service for availability of non-standard offerings.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

PRODUCT DESCRIPTION

Superior Essex now offers long-span Figure 8 optical fiber cables using a ½" or ¾" messenger which can span lengths greater than 1,000 feet. Loose tube cables are the product of choice as the backbone in Outside Plant (OSP) applications. Loose tube self support cables are designed for use in aerial applications as an alternative to lashing. These cables reduce installation time and costs. The durable loose tube design features optical fibers placed inside gel-free buffer tubes. The core is constructed by stranding the buffer tubes around a central member using a reverse oscillating lay (ROL). The core is wrapped with flexible strength members, a water-blocking tape and then encased with a black jacket and an integrated EHS steel messenger. A rip cord is included under the jacket for ease of entry.

APPLICATIONS

- Aerial self support
- Trunk, distribution and feeder cable
- · Local loop, metro, long-haul and broadband network

FEATURES

- Available with up to 288-fiber
- Dry (SAP) core standard
- Standard tube size for all fiber counts
- Conforms to standard pole attachment hardware
- Gel-free cable

High fiber densityReduces cable prep and installation time

BENEFITS

- Reduces the number of tools required
- Standard installation practices
- Speeds fiber access and clean-up

ENVIRONMENTAL SPECIFICATIONS

Operation/Storage	-40°C to +70°C
Installation	-30°C to +70°C

		Support	Cable Di	mensions		Fiber Cable Component Maximum Tensile Loading		Support Messenger	Minimum E	Minimum Bend Radius	
Part Number ¹	Fiber Count	Messenger Size in (mm)	Minor in (mm)	Major in (mm)	Nominal Weight Ibs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Breaking Strength Ibs	Install in (mm)	Long Term in (mm)	
11012KDLy	12	0.500 (12.7)	0.62 (15.7)	1.11 (28.3)	630 (940)	600 (2,700)	200 (890)	39,030	12.4 (314)	6.2 (157)	
11060KDLy	60	0.500 (12.7)	0.62 (15.7)	1.11 (28.3)	630 (940)	600 (2,700)	200 (890)	39,030	12.4 (314)	6.2 (157)	
11072KDLy	72	0.500 (12.7)	0.62 (15.7)	1.14 (29.0)	644 (961)	600 (2,700)	200 (890)	39,030	12.4 (314)	6.2 (157)	
11096KDLy	96	0.500 (12.7)	0.62 (15.7)	1.21 (30.7)	653 (974)	600 (2,700)	200 (890)	39,030	12.4 (314)	6.2 (157)	
11144KDLy	144	0.500 (12.7)	0.63 (16.0)	1.34 (34.0)	698 (1,041)	600 (2,700)	200 (890)	39,030	12.6 (320)	6.3 (160)	
11216KDLy	216	0.500 (12.7)	0.63 (16.0)	1.34 (34.0)	698 (1,041)	600 (2,700)	200 (890)	39,030	12.6 (320)	6.3 (160)	
11288KDLy	288	0.500 (12.7)	0.74 (18.9)	1.45 (36.9)	735 (1,097)	600 (2,700)	200 (890)	39,030	14.9 (378)	7.4 (189)	
11012KDKy	12	0.375 (9.5)	0.48 (12.1)	0.95 (24.1)	353 (526)	600 (2,700)	200 (890)	15,400	9.5 (242)	4.8 (121)	
11060KDKy	60	0.375 (9.5)	0.48 (12.1)	0.95 (24.1)	353 (526)	600 (2,700)	200 (890)	15,400	9.5 (242)	4.8 (121)	
11072KDKy	72	0.375 (9.5)	0.48 (12.1)	1.00 (25.4)	367 (547)	600 (2,700)	200 (890)	15,400	9.5 (242)	4.8 (121)	
11096KDKy	96	0.375 (9.5)	0.50 (12.7)	1.07 (27.1)	385 (574)	600 (2,700)	200 (890)	15,400	10.0 (254)	5.0 (127)	
11144KDKy	144	0.375 (9.5)	0.63 (16.0)	1.21 (30.8)	430 (641)	600 (2,700)	200 (890)	15,400	12.6 (320)	6.3 (160)	
11216KDKy	216	0.375 (9.5)	0.63 (16.0)	1.21 (30.8)	430 (641)	600 (2,700)	200 (890)	15,400	12.6 (320)	6.3 (160)	
11288KDKy	288	0.375 (9.5)	0.74 (18.9)	1.31 (33.3)	460 (687)	600 (2,700)	200 (890)	15,400	14.9 (378)	7.4 (189)	

FIBER TYPES:	SINGLE MODE							
	TeraFlex® Be	end Resistant						
	G.657.A1	G.657.A2						
¹ Replace "x" with:	К	J						
See "Ontical Fiber Specifications" in the "Technical Informatio								

See "Optical Fiber Specifications" in the "Technical Information section for detailed fiber type specifications.



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¹Replace "y" with:

WATER BLOCK AND JACKET PRINT CODES

Feet

1

Dry core et Meters

2

Dry core special

Meters

6

Feet

5



SPECIFICATIONS

STEERINGHIS	
Fiber Count	Available in 6-fiber up to 288-fiber
Compressive Strength Ibs/in (N/cm)	Install: 125 (220) Long Term: 63 (110)
Maximum Span NESC Loading District ft (m) Max span would vary at different sag percentages.	Light: 492 (150) Medium: 328 (100) Heavy: 197 (60)
Recommended Hardware	FIBERLIGN [®] dead-end for ADSS Limited Tension
Standards Design and Test	ICEA S-87-640 IEEE 1222
FIBERLIGN is a registered trademark of Preformed	Line Products (PLP).

ENVIRONMENTAL SPECIFICATIONS	
Operation/Storage	-40°C to +70°C
Installation	-30°C to +70°C

PART NUM	MBER KEY														
F	E	1	1	-	_	_	_	х	х	х	-	E	9	9	1 or 2
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Fiber cable	Cable	e type	100 meter span	-	Fiber	count (006	unt (006-288)		Fiber type			Jacket color	Pacl	kage	Jacket print

Contact Customer Service for availability of non-standard offerings.

PRODUCT DESCRIPTION

APPLICATIONS

FEATURES

(space potential ≤12 kV)

• Suitable for all type of aerial lines

• Available with up to 288-fiber

• Lower cost than Figure 8

Energized installation

• Dry core standard

Custom print

ADSS 100 is an All Dielectric Self Supporting (ADSS) cable suitable for aerial applications with span lengths from 60 meters to 160 meters depending on loading conditions and sag requirements. The

exact span limit will vary depending on wind and loading conditions,

sag requirements and other factors. This black, PE-jacketed cable is

UV-stabilized and water blocked for outdoor aerial applications. The loose tube design provides stable and highly reliable transmission

parameters for a variety of voice, data, video and imaging applications.

The high modulus aramid yarns provide high tensile strength and long

BENEFITS

• High fiber density

No downtime

Personalization

• Reduces cable prep time

Reduced network cost

term reliability. Sag and tension charts are available.

Low-voltage transmission and distribution system

• Railways, power and telecommunications pole routes

PART NUMBERS AND PHYSICAL CHARACTERISTICS

					Minimum Bend Radius		
Previous Part Number	Current Part Number ¹	Fiber Count	Nominal Diameter in (mm)	Nominal Weight lbs/kft (kg/km)	Install in (mm)	Long Term in (mm)	
1F0063111	FE11-006xxx-E99y	6	0.50 (12.6)	70 (105)	10.0 (253)	5.0 (126)	
1F0123T11	FE11-012xxx-E99y	12	0.50 (12.6)	70 (105)	10.0 (253)	5.0 (126)	
1F0243T11	FE11-024xxx-E99y	24	0.50 (12.6)	70 (105)	10.0 (253)	5.0 (126)	
1F0483111	FE11-048xxx-E99y	48	0.50 (12.6)	70 (105)	10.0 (253)	5.0 (126)	
1F0723111	FE11-072xxx-E99y	72	0.50 (12.6)	70 (105)	10.0 (253)	5.0 (126)	
1F0963111	FE11-096xxx-E99y	96	0.53 (13.4)	91 (136)	10.6 (268)	5.3 (134)	
1F1443111	FE11-144xxx-E99y	144	0.68 (17.2)	146 (217)	13.5 (343)	6.8 (172)	
1F2163111	FE11-216xxx-E99y	216	0.68 (17.2)	166 (247)	13.5 (343)	6.8 (172)	
1F2883111	FE11-288xxx-E99y	288	0.81 (20.5)	187 (278)	16.2 (411)	8.1 (205)	

FIBER TYPES:	SINGLE MO	SINGLE MODE											
	Reduced	Zero	TeraFle										
	Water Peak	Water Peak	G.657.A1	G.657.A2	G.657.B3	NZDS	LEAF						
¹ Replace "xxx" with:	U10	U17	U13	U14	U15	U19	C19						

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

JACKET PRINT										
	Feet	Meters								
¹ Replace "y" with:	1	2								

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SPECIFICATIONS

SPECIFICATIONS					
Fiber Count	Available in 6-fiber up to 288-fiber				
Compressive Strength Ibs/in (N/cm)	Install: 125 (220) Long Term: 63 (110)				
Maximum Span NESC Loading District ft (m) Max span would vary at different sag percentages.	Light: 853 (260) Medium: 656 (200) Heavy: 459 (140)				
Recommended Hardware	FIBERLIGN [®] dead-end for ADSS Medium Tension				
Standards Design and Test	ICEA S-87-640 IEEE 1222				
FIBERLIGN is a registered trademark of Preformed	Line Products (PLP).				

ENVIRONMENTAL SPECIFICATIONS	
Operation/Storage	-40°C to +70°C
Installation	-30°C to +70°C

PRODUCT DESCRIPTION

ADSS 200 is an All Dielectric Self Supporting (ADSS) cable suitable for aerial applications with span lengths from 140 meters to 260 meters depending on loading conditions and sag requirements. The exact span limit will vary depending on wind and loading conditions, sag requirements and other factors. This black, PE-jacketed cable is UV-stabilized and water blocked for outdoor aerial applications. The loose tube design provides stable and highly reliable transmission parameters for a variety of voice, data, video and imaging applications. The high modulus aramid yarns provide high tensile strength and long term reliability. Sag and tension charts are available.

APPLICATIONS

- Low-voltage transmission and distribution system (space potential ≤12 kV)
- Railways, power and telecommunications pole routes
- Suitable for all type of aerial lines

FEATURES

- Available with up to 288-fiber
- Dry core standard
- Lower cost than Figure 8
- Energized installation
- Custom print

BENEFITS

- High fiber density
- Reduces cable prep time
- Reduced network cost
- No downtime
- Personalization

PART NUM	ART NUMBER KEY														
F	E	1	2	-	_	_	_	х	х	х	-	E	9	9	1 or 2
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Fiber cable	Cable	e type	200 meter span	-	Fiber	Fiber count (006-288)			Fiber type		-	Jacket color	Pacl	kage	Jacket print

Contact Customer Service for availability of non-standard offerings.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

					Minimum Bend Radius		
Previous Part Number	Current Part Number ¹	Fiber Count	Nominal Diameter in (mm)	Nominal Weight lbs/kft (kg/km)	Install in (mm)	Long Term in (mm)	
1F0063121	FE12-006xxx-E99y	6	0.55 (14.0)	91 (135)	11.1 (282)	5.5 (141)	
1F0123T21	FE12-012xxx-E99y	12	0.55 (14.0)	91 (135)	11.1 (282)	5.5 (141)	
1F0243T21	FE12-024xxx-E99y	24	0.55 (14.0)	91 (135)	11.1 (282)	5.5 (141)	
1F0483121	FE12-048xxx-E99y	48	0.55 (14.0)	91 (135)	11.1 (282)	5.5 (141)	
1F0723121	FE12-072xxx-E99y	72	0.55 (14.0)	91 (135)	11.1 (282)	5.5 (141)	
1F0963121	FE12-096xxx-E99y	96	0.60 (15.2)	107 (160)	12.0 (304)	6.0 (152)	
1F1443121	FE12-144xxx-E99y	144	0.76 (19.3)	154 (230)	15.2 (386)	7.6 (193)	
1F2163121	FE12-216xxx-E99y	216	0.76 (19.3)	177 (265)	15.2 (386)	7.6 (193)	
1F2883121	FE12-288xxx-E99y	288	0.85 (21.7)	201 (300)	17.1 (434)	8.5 (217)	

FIBER TYPES:	SINGLE MC	SINGLE MODE											
	Reduced Water Peak	Zero	TeraFle	ex® Bend Re									
		Water Peak	G.657.A1	G.657.A2	G.657.B3	NZDS	LEAF						
¹ Replace "xxx" with:	U10	U17	U13	U14	U15	U19	C19						

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

JACKET PRINT		
	Feet	Meters
¹ Replace "y" with:	1	2



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ADSS 400

Series 1F400

PRODUCT DESCRIPTION

All Dielectric Self Supporting (ADSS) cables are suitable for aerial applications with a maximum span of 400 meters. This black, PE-jacketed cable is UV-stabilized and water blocked for outdoor aerial applications. The loose tube design provides stable and highly reliable transmission parameters for a variety of voice, data, video and imaging applications. The high modulus aramid yarns provide high tensile strength and long term reliability.

APPLICATIONS

- Low-voltage transmission and distribution system
- Space potential ≤12 kV with PE jacket
- Railways, power and telecommunications pole routes
- Suitable for all type of aerial lines

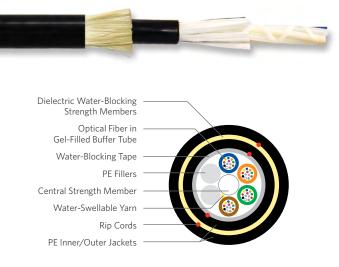
FEATURES

Rev 7/15

Ed 13.0

TEATORES	DENEITIS
• Available with up to 288-fiber	 High fiber density
Dry core standard	 Reduces cable prep time
Lower cost than Figure 8	 Reduced network cost
 Energized installation 	 No downtime

RENEEITS



Available in 6-fiber up to 288-fiber
Install: 125 (220) Long Term: 63 (110)
Light: 1,640 (500) Medium: 1,312 (400) Heavy: 853 (260)

ENVIRONMENTAL SPECIFICATIONS

Operation/Storage	-40°C to +70°C
Installation	-30°C to +70°C

PART NUI	MBER KEY														
F	E	1	4	-	_	_	_	U	1	0	-	E	9	9	1
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Fiber cable	Cable	e type	400 meter span	-	Fiber	count (006	-288)	(SMF Re	Fiber type educed Wat		-	Jacket color	Pac	kage	Jacket print (feet)

Contact Customer Service for availability of non-standard offerings.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

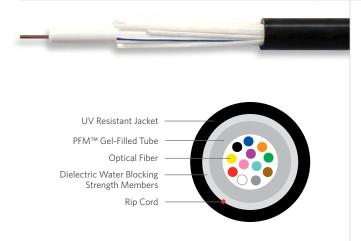
					Minimum E	Bend Radius
Previous Part Number	Current Part Number ¹	Fiber Count	Nominal Diameter in (mm)	Nominal Weight Ibs/kft (kg/km)	Install in (mm)	Long Term in (mm)
1F006314L	FE14-006U10-E991	6	0.55 (14.0)	101 (150)	11.0 (280)	5.5 (140)
1F012314L	FE14-012U10-E991	12	0.55 (14.0)	101 (150)	11.0 (280)	5.5 (140)
1F024314L	FE14-024U10-E991	24	0.55 (14.0)	101 (150)	11.0 (280)	5.5 (140)
1F048314L	FE14-048U10-E991	48	0.55 (14.0)	101 (150)	11.0 (280)	5.5 (140)
1F096314L	FE14-096U10-E991	96	0.61 (15.4)	121 (180)	12.2 (308)	6.1 (154)
1F144314L	FE14-144U10-E991	144	0.74 (18.7)	171 (255)	14.8 (374)	7.4 (187)
1F288314L	FE14-288U10-E991	288	0.85 (21.6)	218 (325)	17.0 (432)	8.5 (216)



Single Loose Tube All Dielectric

Series 51

OSP CABLE



SPECIFICATIONS	
Fiber Count	Available in 6-fiber up to 96-fiber
Standards Compliance	Telcordia® GR-20-CORE RDUP PE-90 Designation SLT ICEA S-87-640-2011 RoHS-compliant

Telcordia is a registered trademark of Ericsson Inc.

ENVIRONMENTAL SPECIFICATIONS	
Operation/Storage	-40°C to +70°C
Installation	-30°C to +70°C

PART NUMBER KEY 5 1 0 х х V 1 8 9 2 3 4 5 6 7 Product Fiber Internal Water block/ Fiber count (006-096) family designator marking (1-8) type

Contact Customer Service for availability of non-standard offerings.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

PRODUCT DESCRIPTION

Loose tube cables are the product of choice as the backbone in Outside Plant (OSP) applications. Single Loose tube cables offer a low cost alternative to traditional stranded loose tube cables. The loose tube design offers reliable transmission performance over a broad temperature range. The durable single loose tube design features optical fibers placed inside a single PFM[™] gel-filled tube. The core tube includes up to 8-fiber bundles, each containing up to 12 optical fibers bound within a color coded binder. The core tube is then helically wrapped with waterblocking strength members, then encased with a black jacket. A rip cord is included under the jacket to provide ease of access to the core tube.

APPLICATIONS

- Underground duct and lashed aerial
- Trunk, distribution and feeder cable
- · Local loop, metro, long-haul and broadband network

FEATURES

- Available with up to 96-fiber
- Multiple fiber types
- Dielectric outer strength members
- Dry (SAP) core standard
- Highly flexible
- Small cable diameter
- Fewer cable components
- PFM gel

High fiber density

BENEFITS

- Multiple network applications
- Eliminates grounding or bonding problems
- Reduces cable prep and installation time
- Easy handling
- Installation of more fibers in less space
- Reduces cost
- Non-sticky gel speeds fiber access and clean-up

Rev 7/15

	ARACTERISTICS					
			Maximum Te	nsile Loading	Minimum	Bend Radius
Fiber Count	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)
6	0.31 (7.9)	36 (54)	600 (2,700)	200 (890)	6.2 (158)	3.1 (79)
12	0.31 (7.9)	36 (54)	600 (2,700)	200 (890)	6.2 (158)	3.1 (79)
24	0.39 (9.8)	51 (75)	600 (2,700)	200 (890)	7.8 (196)	3.9 (98)
36	0.39 (9.8)	51 (75)	600 (2,700)	200 (890)	7.8 (196)	3.9 (98)
48	0.39 (9.8)	51 (75)	600 (2,700)	200 (890)	7.8 (196)	3.9 (98)
72	0.46 (11.6)	68 (102)	600 (2,700)	200 (890)	9.2 (232)	4.6 (116)
96	0.46 (11.6)	68 (102)	600 (2,700)	200 (890)	9.2 (232)	4.6 (116)
	Fiber Count 6 12 24 36 48 72	Fiber Count Nominal Diameter in (mm) 6 0.31 (7.9) 12 0.31 (7.9) 24 0.39 (9.8) 36 0.39 (9.8) 48 0.39 (9.8) 72 0.46 (11.6)	Fiber CountNominal Diameter in (mm)Approx. Weight lbs/kft (kg/km)60.31 (7.9)36 (54)120.31 (7.9)36 (54)120.39 (9.8)51 (75)360.39 (9.8)51 (75)360.39 (9.8)51 (75)480.39 (9.8)51 (75)720.46 (11.6)68 (102)	Nominal Diameter Approx. Weight Ibs/kft (kg/km) Install Ibs (N) Install 6 0.31 (7.9) 36 (54) 600 (2,700) 12 0.31 (7.9) 36 (54) 600 (2,700) 24 0.39 (9.8) 51 (75) 600 (2,700) 36 0.39 (9.8) 51 (75) 600 (2,700) 48 0.39 (9.8) 51 (75) 600 (2,700) 72 0.46 (11.6) 68 (102) 600 (2,700)	Mominal Diameter Approx. Weight Ibs/kft (kg/km) Install Ibs (N) Long Term Ibs (N) 6 0.31 (7.9) 36 (54) 600 (2,700) 200 (890) 12 0.31 (7.9) 36 (54) 600 (2,700) 200 (890) 24 0.39 (9.8) 51 (75) 600 (2,700) 200 (890) 36 0.39 (9.8) 51 (75) 600 (2,700) 200 (890) 48 0.39 (9.8) 51 (75) 600 (2,700) 200 (890) 72 0.46 (11.6) 68 (102) 600 (2,700) 200 (890)	Nominal Diameter Approx. Weight lbs/kft (kg/km) Install lbs (N) Long Term lbs (N) Install in (mm) 6 0.31 (7.9) 36 (54) 600 (2,700) 200 (890) 6.2 (158) 12 0.31 (7.9) 36 (54) 600 (2,700) 200 (890) 6.2 (158) 24 0.39 (9.8) 51 (75) 600 (2,700) 200 (890) 7.8 (196) 36 0.39 (9.8) 51 (75) 600 (2,700) 200 (890) 7.8 (196) 48 0.39 (9.8) 51 (75) 600 (2,700) 200 (890) 7.8 (196) 72 0.46 (11.6) 68 (102) 600 (2,700) 200 (890) 9.2 (232)

FIBER TYPES:	SINGLE MODE						MULTIMO	DE			
	Reduced	Zero	TeraFlex [®] Bend Resistant					TeraGain®	TeraFlex Bend F	Resistant Laser Op	timized 50/125
	Water Peak	Water Peak	G.657.A1	G.657.A2	G.657.B3	NZDS	DS LEAF	62.5/125	10G/150	10G/300	10G/550
¹ Replace "xx" with:	31	21	K1	J1	L1	81	S1	6G	MG	NG	PG

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

WATER BLOCK AND JACKET PRINT CODES								
	Dry	core	Dry cor	e special				
	Feet Meters		Feet	Meters				
¹ Replace "y" with:	1	2	5	6				



Single Loose Tube Single Armor

Series 52

PRODUCT DESCRIPTION

Loose tube cables are the product of choice as the backbone in Outside Plant (OSP) applications. Single Loose tube cables offer a low cost alternative to traditional stranded loose tube cables. Armored cables are designed for improved mechanical and rodent protection in direct bury applications. The loose tube design offers reliable transmission performance over a broad temperature range. The durable single loose tube design features optical fibers placed inside a single PFM[™] gel-filled tube. The core tube includes up to 8-fiber bundles, each containing up to 12 optical fibers bound with a color coded binder. The core is wrapped with flexible strength members and covered with a water-blocking tape. A corrugated steel armor is applied and then encased with a black jacket. Rip cords are included under the armor for ease of access to the core tube.

APPLICATIONS

- Direct bury
- Trunk, distribution and feeder cable
- Local loop, metro, long-haul and broadband network

FEATURES

- Available with up to 96-fiber
- Multiple fiber types
- Dry (SAP) core standard
- Highly flexible
- Fewer cable components
- Corrugated Armor
- PFM gel

- High fiber densityMultiple network applications
- Reduces cable prep and installation time
- Easy handling

BENEFITS

- Reduces cost
- Improves compressive strength
 and rodent protection
- Non-sticky gel speeds fiber access and clean-up

UV Resistant J	acket
Corrugated Steel A	armor
PFM™ Gel-Filled Optical	
Dielectric Water Blo Strength Men	
Rip C	Cords

SPECIFICATIONS

Fiber Count	Available in 6-fiber up to 96-fiber
Standards Compliance	Telcordia® GR-20-CORE RDUP PE-90 Designation SLT ICEA S-87-640-2011 RoHS-compliant
Telcordia is a registered trademark of Ericsson Inc.	

ENVIRONMENTAL SPECIFICATIONS	
Operation/Storage	-40°C to +70°C
Installation	-30°C to +70°C

PART	NUMB	ER KEY						
5	2	_	_	_	х	х	0	У
1	2	3	4	5	6	7	8	9
	Product family Fiber count (006-096)		Fiber type	Inte desig	rnal nator	Water block/ marking (1-8)		

Contact Customer Service for availability of non-standard offerings

PART NUMBERS AND PHYSICAL CHARACTERISTICS

				Maximum Te	nsile Loading	Minimum B	end Radius
Part Number ¹	Fiber Count	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)
52002xx0y	2	0.36 (9.1)	62 (92)	600 (2,700)	200 (890)	7.2 (183)	3.6 (91)
52004xx0y	4	0.36 (9.1)	62 (92)	600 (2,700)	200 (890)	7.2 (183)	3.6 (91)
52006xx0y	6	0.36 (9.1)	62 (92)	600 (2,700)	200 (890)	7.2 (183)	3.6 (91)
52012xx0y	12	0.36 (9.1)	62 (92)	600 (2,700)	200 (890)	7.2 (183)	3.6 (91)
52024xx0y	24	0.44 (11.0)	83 (124)	600 (2,700)	200 (890)	8.8 (224)	4.4 (112)
52036xx0y	36	0.44 (11.0)	83 (124)	600 (2,700)	200 (890)	8.8 (224)	4.4 (112)
52048xx0y	48	0.44 (11.0)	83 (124)	600 (2,700)	200 (890)	8.8 (224)	4.4 (112)
52072xx0y	72	0.50 (12.8)	111 (165)	600 (2,700)	200 (890)	10.0 (254)	5.0 (127)
52096xx0y	96	0.50 (12.8)	111 (165)	600 (2,700)	200 (890)	10.0 (254)	5.0 (127)

SINGLE MC	DE			MULTIMO	DE					
Reduced Zero TeraFlex® Bend Resistant							TeraGain®	TeraFlex Bend Resistant Laser Optimized 50/125		
Water Peak	Water Peak	G.657.A1	G.657.A2	G.657.B3	NZDS	LEAF	62.5/125	10G/150	10G/300	10G/550
31	21	K1	J1	L1	81	S1	6G	MG	NG	PG
	Reduced Water Peak	Water Peak Water Peak	Reduced Zero TeraF Water Peak Water Peak G.657.A1	Reduced Zero TeraFlex® Bend Res Water Peak Water Peak G.657.A1 G.657.A2	Reduced Zero TeraFlex® Bend Resistant Water Peak Water Peak G.657.A1 G.657.A2 G.657.B3	Reduced Zero TeraFlex® Bend Resistant Water Peak Water Peak G.657.A1 G.657.A2 G.657.B3 NZDS	Reduced Zero TeraFlex® Bend Resistant Water Peak Water Peak G.657.A1 G.657.A2 G.657.B3 NZDS LEAF	Reduced Zero TeraFlex® Bend Resistant TeraGain® Water Peak G.657.A1 G.657.A2 G.657.B3 NZDS LEAF 62.5/125	Reduced Zero TeraFlex® Bend Resistant TeraGain® TeraFlex Bend Resistant Water Peak Water Peak G.657.A1 G.657.A2 G.657.B3 NZDS LEAF 62.5/125 10G/150	Reduced Zero TeraFlex® Bend Resistant TeraGain® TeraFlex Bend Resistant Laser Op Water Peak G.657.A1 G.657.A2 G.657.B3 NZDS LEAF 62.5/125 10G/150 10G/300

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

WATER BLOCK AND JACKET PRINT CODES										
	Dry	core	Dry core speci							
	Feet	Meters	Feet	Meters						
¹ Replace "y" with:	1	2	5	6						

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Series F1



SPECIFICATIONS	
Fiber Count	Available in 6-fiber up to 96-fiber
Standards Compliance	Telcordia® GR-20-CORE RDUP PE-90 Designation SLT ICEA S-87-640-2011 RoHS-compliant
Telcordia is a registered trademark of Ericsson Inc.	

Telcordia is a registered trademark of Ericsson Inc.

ENVIRONMENTAL SPECIFICATIONS	
Operation/Storage	-40°C to +70°C
Installation	-30°C to +70°C

PART	NUME	BER KEY						
F	1	_	_	_	х	х	0	У
1	2	3	4	5	6	7	8	9
	Product family Fiber count (006-096)		Fiber type		ernal mator	Water block/ marking (1-8)		

Contact Customer Service for availability of non-standard offerings.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

PRODUCT DESCRIPTION

Loose tube cables are the product of choice as the backbone in Outside Plant (OSP) applications. Single Loose tube cables offer a low cost alternative to traditional stranded loose tube cables. The highly flexible single tube reduces installation problems. The loose tube design offers reliable transmission performance over a broad temperature range. The single flex tube design features optical fibers placed inside a single PFM[™] gel-filled tube. The core tube includes up to 8-fiber bundles, each containing up to 12 optical fibers bound with a color coded binder. The core is wrapped with water-blocking tape and then encased with a black jacket containing rigid strength rods. A rip cord is included under the jacket for ease of access to the core tube.

APPLICATIONS

- Underground duct and lashed aerial
- Trunk, distribution and feeder cable
- Local loop, metro, long-haul and broadband network

FEATURES

Fewer cable components

PFM gel

- Available with up to 96-fiber High fiber density Multiple fiber types Multiple network applications Eliminates grounding . Dielectric outer . strength members or bonding problems • Dry (SAP) core standard Reduces cable prep and installation time · Highly flexible Easy handling Small cable diameter Installation of more fibers .
 - Installation of more fibe in less space
 - Reduces cost

BENEFITS

• Non-sticky gel speeds fiber access and clean-up

PART NUMBERS AN	ND PHYSICAL CH	ARACTERISTICS					
				Maximum Tensile Loading Minimum			
Part Number ¹	Fiber Count	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)
F1006xx0y	6	0.47 (11.9)	75 (112)	600 (2,700)	200 (890)	9.4 (238)	4.7 (119)
F1012xx0y	12	0.47 (11.9)	75 (112)	600 (2,700)	200 (890)	9.4 (238)	4.7 (119)
F1024xx0y	24	0.47 (11.9)	75 (112)	600 (2,700)	200 (890)	9.4 (238)	4.7 (119)
F1036xx0y	36	0.47 (11.9)	75 (112)	600 (2,700)	200 (890)	9.4 (238)	4.7 (119)
F1048xx0y	48	0.47 (11.9)	75 (112)	600 (2,700)	200 (890)	9.4 (238)	4.7 (119)
F1072xx0y	72	0.55 (14.0)	101 (150)	600 (2,700)	200 (890)	11.0 (279)	5.5 (139)
F1096xx0y	96	0.55 (14.0)	101 (150)	600 (2,700)	200 (890)	11.0 (279)	5.5 (139)

FIBER TYPES:	SINGLE MODE							MULTIMO	DE		
	Reduced	Zero	TeraFle	ex® Bend Re	sistant			TeraGain®	TeraFlex Bend F	Resistant Laser Op	timized 50/125
	Water Peak		G.657.A1	G.657.A2	G.657.B3	NZDS	LEAF	62.5/125	10G/150	10G/300	10G/550
¹ For \leq 12 fibers replace "xx" with:	36	26	K6	J6	L6	86	S6	6G	MC	NG	PG
¹ For > 12 fibers replace "xx" with:	31	21	K1	J1	L1	81	S1	66	MG	NG	PG

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

WATER BLOCK AND JACKET PRINT CODES							
	Dry core Dry core special						
	Feet	Meters	Feet	Meters			
¹ Replace "y" with:	1	2	5	6			



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Single Flex Tube Single Armor

PRODUCT DESCRIPTION

Single loose tube cables offer a low cost alternative to traditional stranded loose tube cables and the armor provides additional protection for certain environments. The highly flexible single tube reduces installation problems. The loose tube design offers reliable transmission performance over a broad temperature range. The single flex tube design features optical fibers placed inside a single PFM[™] gel-filled tube. The core tube includes up to 8-fiber bundles, each containing up to 12 optical fibers bound with a color coded binder. The core is wrapped with flexible strength members covered with a water-blocking tape, a corrugated steel armor is applied and then encased with a black jacket containing rigid steel rods. Rip cords are included under the armor for ease of access to the core tube.

APPLICATIONS

- Direct bury, underground duct and lashed aerial
- Trunk, distribution and feeder cable
- · Local loop, metro, long-haul and broadband network

FEATURES	BENEFITS
 Available with up to 96-fiber 	 High fiber density
 Multiple fiber types 	 Multiple network applications
 Metallic outer strength members 	Offers ease of location
Dry (SAP) core standard	 Reduces cable prep and installation time
 Highly flexible 	 Easy handling
Small cable diameter	 Installation of more fibers in less space
Fewer cable components	 Reduces cost
Corrugated Armor	 Improves compressive strength and rodent protection
PFM gel	 Non-sticky gel speeds fiber access and clean-up

Rigid Steel Outer Strength Members	
UV Resistant Jacket	
Corrugated Steel Armor	
PFM™ Gel-Filled Tube	
Optical Fiber	
Dielectric Water Blocking Strength Members	
Rip Cords	

SPECIFICATIONS	
Fiber Count	Available in 6-fiber up to 96-fiber
Standards Compliance	Telcordia® GR-20-CORE RDUP PE-90 Designation SLT ICEA S-87-640-2011 RoHS-compliant
Telcordia is a registered trademark of Ericsson Inc.	

ENVIRONMENTAL SPECIFICATIONS	
Operation/Storage	-40°C to +70°C
Installation	-30°C to +70°C

PART	NUME	BER KEY						
F	2	_	_	_	х	х	S	У
1	2	3	4	5	6	7	8	9
	duct Fiber count (006-096) nily		Fiber type	Internal designator		Water block/ marking (1-8)		

Contact Customer Service for availability of non-standard offerings.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

				Maximum Tensile Loading		Minimum E	Bend Radius
Part Number ¹	Fiber Count	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)
F2006xxSy	6	0.51 (13.0)	117 (174)	600 (2,700)	200 (890)	10.2 (259)	5.1 (129)
F2012xxSy	12	0.51 (13.0)	117 (174)	600 (2,700)	200 (890)	10.2 (259)	5.1 (129)
F2024xxSy	24	0.51 (13.0)	117 (174)	600 (2,700)	200 (890)	10.2 (259)	5.1 (129)
F2036xxSy	36	0.51 (13.0)	117 (174)	600 (2,700)	200 (890)	10.2 (259)	5.1 (129)
F2048xxSy	48	0.51 (13.0)	117 (174)	600 (2,700)	200 (890)	10.2 (259)	5.1 (129)
F2072xxSy	72	0.58 (15.0)	150 (223)	600 (2,700)	200 (890)	11.6 (295)	5.8 (147)
F2096xxSy	96	0.58 (15.0)	150 (223)	600 (2,700)	200 (890)	11.6 (295)	5.8 (147)

FIBER TYPES:	SINGLE MC	SINGLE MODE						MULTIMO
	Reduced	Zero	TeraFlex [®] Bend Resistant					TeraGain®
	Water Peak	Water Peak	G.657.A1	G.657.A2	G.657.B3	NZDS I	LEAF	62.5/125
¹ For \leq 12 fibers replace "xx" with:	36	26	K6	J6	L6	86	S6	6G
¹ For > 12 fibers replace "xx" with:	31	21	K1	J1	L1	81	S1	oG

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

WATER BLOCK AND JACKET PRINT CODES							
	Dry	core	Dry core specia				
	Feet Meters		Feet	Meters			
¹ Replace "y" with:	1	2	5	6			

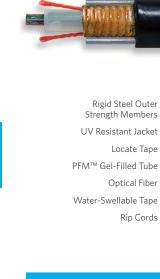
TeraFlex Bend Resistant Laser Optimized 50/125 10G/150 10G/300 10G/550 MG NG PG

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Rev 7/15 Ed 13.0

Series FM



SPECIFICATIONS	
Fiber Count	Available in 6-fiber up to 96-fiber
Standards Compliance	Telcordia® GR-20-CORE ICEA S-87-640-2011 RoHS-compliant
TI 0.1 11 1 1 (E) 1	

Telcordia is a reaistered trademark of Ericsson Inc.

ENVIRONMENTAL SPECIFICATIONS			
Operation/Storage	-40°C to +70°C		
Installation	-30°C to +70°C		

PART	NUME	BER KEY						
F	М	_	_	-	х	1	S	У
1	2	3	4	5	6	7	8	9
	duct nily	Fiber co	ount (00	6-096)	Fiber type		rnal nator	Water block/ marking (1-8)
Contact	Customo	« Comileo fo	, availahi	ity of non	ctandard of	foringe		

48

72

96

PRODUCT DESCRIPTION

Flex Tube Locate cables are designed to offer low resistivity (less than 10 Ohms per mile) and are for use in long distance remote location systems. These cables make use of a highly flexible tube that contains up to 8 loose optical fiber bundles, each containing 12 optical fibers. $\mathsf{PFM}^{\mathsf{TM}}$ gel is used inside the tube to reduce the time needed to access the fibers. The core is wrapped with a water-swellable tape to block water flow. A copper metallic locatable tape is applied and then encased in a black, UV resistant outer jacket of HDPE. Ripcords are included under the tape for ease of access to the core tube.

BENEFITS

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High fiber density

Reduces cable prep and installation time

Easy handling

in less space

Reduces cost

 Multiple network applications Offers ease of location

Installation of more fibers

Remote locate system

Non-sticky gel speeds fiber access and clean-up

APPLICATIONS

- · Direct bury, underground duct and lashed aerial
- Trunk, distribution and feeder cable
- · Local loop, metro, long-haul and broadband network

FEATURES

- Available with up to 96-fiber
- Multiple fiber types
- Metallic outer strength members
- Dry (SAP) core standard
- · Highly flexible
- Small cable diameter
- Fewer cable components
- Less than 10 Ohms/mile resistivity
- PFM gel

OSP CABLE

lanniy		cype acoignator					
tact Customer Service fo	or availability of non-st	andard offerings.					
RT NUMBERS AN	ID PHYSICAL CHA	ARACTERISTICS					
				Maximum Te	nsile Loading	Minimum E	Bend Radius
Part Number ¹	Fiber Count	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)
FM006x1Sy	6	0.51 (12.9)	111 (165)	600 (2,700)	200 (890)	10.2 (258)	5.1 (129)
FM012x1Sy	12	0.51 (12.9)	111 (165)	600 (2,700)	200 (890)	10.2 (258)	5.1 (129)
FM024x1Sy	24	0.51 (12.9)	111 (165)	600 (2,700)	200 (890)	10.2 (258)	5.1 (129)
FM036x1Sy	36	0.51 (12.9)	111 (165)	600 (2,700)	200 (890)	10.2 (258)	5.1 (129)

5.1 (129) 5.1 (129) 0.51 (12.9) 111 (165) 600 (2,700) 200 (890) 10.2 (258) 0.51 (12.9) 111 (165) 600 (2,700) 200 (890) 10.2 (258) 5.1 (129) 11.8 (298) 200 (890) 5.9 (149) 0.59 (14.9) 131 (195) 600 (2,700) 0.59 (14.9) 131 (195) 600 (2,700) 200 (890) 11.8 (298) 5.9 (149)

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FIBER TYPES:	SINGLE MODE						
	Reduced	Zero	TeraF				
	Water Peak	Water Peak	G.657.A1	G.657.A2	G.657.B3	NZDS	LEAF
¹ Replace "x" with:	3	2	К	J	L	8	S

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

WATER BLOCK AND JACKET PRINT CODES					
	Dry core Feet Meters		Dry core special		
			Feet	Meters	
¹ Replace "y" with:	1	2	5	6	

	MULTIMO	DE				
TeraGain®		TeraFlex Bend Resistant Laser Optimized 50/125				
LEAF	62.5/125	10G/150	10G/300	10G/550		
S	6	М	N	Р		



FM048x1Sy

FM072x1Sy

FM096x1Sy

B-30

Ribbon Locate

Series RM

PRODUCT DESCRIPTION

Ribbon Locate cables are designed to offer low resistivity (less than 10 Ohms per mile) and are for use in long distance remote location systems. These cables make use of a highly flexible tube that contains up to 18 ribbons, each containing 12 optical fibers. PFM[™] gel is used in the tube to reduce the time needed to access the fibers. The core is wrapped with a water-swellable yarns to block water flow. A copper metallic locatable tape is applied and then encased in a black UV resistant outer jacket of HDPE. Ripcords are included under the tape for ease of access to the core tube.

APPLICATIONS

- Direct bury
- Broadband network
- Local loop
- Trunk, distribution and feeder cables

FEATURES

BENEFITS · High fiber density

- Multiple fiber types available Metallic outer strength members

• Available with up to 216-fiber

- easy location Easy handling and easy · Highly flexible tube tube access
- Less than 10 Ohms/mile resistivity
 Remote locate system
- Ribbon fiber
- Meets or exceeds Telcordia[®] specifications
- PFM gel

- Multiple network applications Metallic design offers
- - Saves labor cost by offering mass fusion splicing
 - Industry approved
 - Non-sticky gel allows for easier and faster clean up

Rigid Steel Outer Strength Members PFM™ Gel-Filled Tube Locate Tape Rip Cords Optical Fiber Ribbons Dielectric Water Blocking Strength Members UV Resistant Jacket	
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SPECIFICATIONS	
Fiber Count	Available in 60-fiber up to 216-fiber
Standards Compliance	Telcordia® GR-20-CORE ICEA S-87-640-2011 RoHS-compliant
T I II I I I I I I I I I I I I I I I I	

Telcordia is a registered trademark of Ericsson Inc.

ENVIRONMENTAL SPECIFICATIONS				
Operation/Storage	-40°C to +70°C			
Installation	-30°C to +70°C			

PART	NUME	BER KEY						
R	Μ	_	_	_	х	1	S	У
1	2	3	4	5	6	7	8	9
Product family Fiber count (060-216)		Fiber type	Internal designator		Water block/ marking (1-8)			

Contact Customer Service for availability of non-standard offerings.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

				Maximum Te	nsile Loading	Minimum E	Bend Radius
Part Number ¹	Fiber Count	Nominal Diameter in (mm)	Nominal Weight lbs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)
RM060x1Sy	60	0.58 (15.0)	150 (223)	600 (2,700)	200 (890)	11.6 (295)	5.8 (147)
RM072x1Sy	72	0.58 (15.0)	150 (223)	600 (2,700)	200 (890)	11.6 (295)	5.8 (147)
RM096x1Sy	96	0.58 (15.0)	150 (223)	600 (2,700)	200 (890)	11.6 (295)	5.8 (147)
RM144x1Sy	144	0.66 (17.0)	187 (279)	600 (2,700)	200 (890)	13.2 (335)	6.0 (152)
RM192x1Sy	192	0.66 (17.0)	195 (290)	600 (2,700)	200 (890)	13.6 (345)	6.8 (173)
RM216x1Sy	216	0.66 (17.0)	195 (290)	600 (2,700)	200 (890)	13.6 (345)	6.8 (173)

FIBER TYPES:	SINGLE MO	HYBRID				
	Reduced Water Peak	Zero Water Peak	TeraFlex® Bend Resistant G.657.A1	NZDS	LEAF	Hybrid
¹ Replace "x" with:	3	2	К	8	S	Н

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

WATER BLOCK AND JACKET PRINT CODES				
	Dry core		Dry core special	
	Feet	Meters	Feet	Meters
¹ Replace "y" with:	1	2	5	6

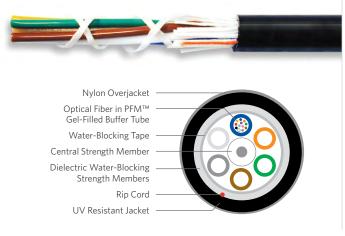
Rev 7/15





Loose Tube Single Jacket All Dielectric Nylon

Series 1NY



SPECIFICATIONS				
Fiber Count	Available in 6-fiber up to 288-fiber			
Standards Compliance	Telcordia® GR-20-CORE RDUP PE-90 Designation MLT ICEA S-87-640-2011 RoHS-compliant			

Telcordia is a registered trademark of Ericsson Inc.

ENVIRONMENTAL SPECIFICATIONS						
Operation/Storage	-40°C to +70°C					
Installation	-30°C to +70°C					

PA	RT N	UME	ER KEY						
	1	2	_	_	_	х	Ν	0	У
	1	2	3	4	5	6	7	8	9
	Produ famil		Fiber co	ount (00)6-288)	Fiber type	Inte desig		Water block/ marking (1-8)

Contact Customer Service for availability of non-standard offerings.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

PRODUCT DESCRIPTION

Loose tube cables are the product of choice as the backbone in Outside Plant (OSP) environments. The durable loose tube design offers reliable transmission performance over a broad temperature range. Optical fibers are placed inside filled buffer tubes containing PFM[™] gel. The core is constructed by stranding the buffer tubes around a central member using a reverse oscillating lay (ROL). The core is wrapped with flexible strength members covered with a water-blocking tape, then encased with a black jacket. A rip cord is included under the jacket for ease of entry. The nylon overjacket completes the cable.

APPLICATIONS

- Underground duct and lashed aerial
- Trunk, distribution and feeder cable
- Local loop, metro, long-haul and broadband network

FEATURES

- Available with up to 288-fiber
- Multiple fiber types including hybrids
- Central strength members
 available in metallic or dielectric
- Dry (SAP) core standard
- Standard tube size for all fiber counts
- PFM gel
- Nylon overjacket

High fiber densityMultiple network applications

BENEFITS

- Metallic option offers ease of location, dielectric design eliminates grounding issues
- Reduces cable prep and installation time
- Reduces the number of tools required
- Non-sticky gel speeds fiber
 access and cleanup
- Rodent and chemical resistant

				Maximum Tensile Loading		Minimum B	end Radius
Part Number ¹	Fiber Count	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Install lbs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)
11006xN0y	6	0.49 (12.4)	70 (105)	600 (2,700)	200 (890)	9.8 (248)	4.9 (124)
11012xN0y	12	0.49 (12.4)	70 (105)	600 (2,700)	200 (890)	9.8 (248)	4.9 (124)
11024xN0y	24	0.49 (12.4)	70 (105)	600 (2,700)	200 (890)	9.8 (248)	4.9 (124)
11036xN0y	36	0.49 (12.4)	70 (105)	600 (2,700)	200 (890)	9.8 (248)	4.9 (124)
11048xN0y	48	0.49 (12.4)	70 (105)	600 (2,700)	200 (890)	9.8 (248)	4.9 (124)
11072xN0y	72	0.53 (13.5)	86 (129)	600 (2,700)	200 (890)	10.6 (270)	5.3 (135)
11096xN0y	96	0.61 (15.4)	107 (160)	600 (2,700)	200 (890)	12.2 (308)	6.1 (154)
11144xN0y	144	0.75 (19.0)	162 (241)	600 (2,700)	200 (890)	15.0 (380)	7.5 (190)
11216xN0y	216	0.78 (19.8)	161 (239)	600 (2,700)	200 (890)	15.6 (396)	7.8 (198)
11288xN0y	288	0.87 (22.0)	203 (302)	600 (2,700)	200 (890)	17.4 (440)	8.7 (220)

FIBER TYPES:	SINGLE MODE						HYBRID	MULTIMODE				
	Reduced Zero		ed Zero TeraFlex® Bend Resistant					TeraGain®	TeraFlex Bend Resistant Laser Optimized 50/125			
	Water Peak Water	Water Peak	G.657.A1	G.657.A2	G.657.B3	NZDS	LEAF		62.5/125	10G/150	10G/300	10G/550
¹ Replace "x" with:	3	2	К	J	L	8	S	Н	6	Μ	Ν	Р

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

WATER BLOCK AND JACKET PRINT CODES										
	Dry	core	Dry core speci							
	Feet	Meters	Feet	Meters						
¹ Replace "y" with:	1	2	5	6						



OSP CABLE

All information, content, data, specifications, packaging and part numbers detailed herein are subject to change. For the most up-to-date information, please visit SuperiorEssex.com. Purchase of this product is subject exclusively to the then current Superior Essex International LP Terms and Conditions of Sale for Communications and Energy Cable, Wire and Connectivity Products, which can be found on our website, SuperiorEssex.com, or provided to you upon request.

Dri-Lite[®] Loose Tube Indoor/Outdoor

OFNR Series 13D

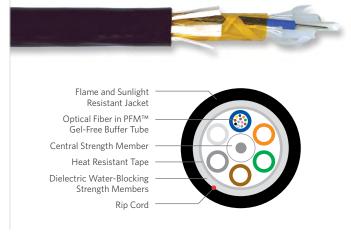
PRODUCT DESCRIPTION

Loose tube riser cables are ideal for campus environments, private networks and local area networks. These dual purpose cables save money and installation time by allowing a direct transition from indoor to outdoor applications with a single cable. Because these cables are fully water blocked with dry elements, stripping and termination is faster. These cables comply with the standards for both Outside Plant (OSP) and indoor riser applications. The loose tube design offers reliable transmission performance over a broad temperature range. The durable loose tube design features optical fibers placed inside gel-free buffer tubes. The core is constructed by stranding the buffer tubes around a central member using a reverse oscillating lay (ROL). It is wrapped with flexible strength members, covered with a heat resistant, water-blocking tape and then encased with a black, flame and sunlight resistant jacket. A rip cord is included under the jacket for ease of entry.

APPLICATIONS

- Underground duct and lashed aerial
- Trunk, distribution and feeder cable
- Local loop, metro, long-haul and broadband network

FE	ATURES	BI	ENEFITS
•	Available with up to 288-fiber	•	High fiber density
•	Multiple fiber types including hybrids	•	Multiple network applications
•	UL Listed, sunlight resistant	•	Longer cable life
•	Dielectric outer strength members	•	Eliminates grounding or bonding problems
•	Dry (SAP) core standard	•	Reduces cable prep and installation time
•	Standard tube size for all fiber counts	•	Reduces the number of tools required
•	Transitions from indoor to outdoor to indoor with no termination	•	Reduces labor cost
•	Gel-free	٠	Speeds fiber access and clean-up



SPECIFICATIONS	
Fiber Count	Available in 2-fiber up to 288-fiber
Performance Compliance	Telcordia [®] GR-20-CORE, Issue 3 UL 1666 RoHS-compliant
NRTL Programs	UL, c(UL) Listed OFNR
Telcordia is a registered trademark of Ericsson Inc.	

ENVIRONMENTAL SPECIFICATIONS	
Operation/Storage	-40°C to +70°C
Installation	-10°C to +70°C

PART NUMBER KEY											
1	3	_	_	_	х	х	0	У			
1	2	3	4	5	6	7	8	9			
Proo	duct nilv	Fiber c	ount (00)6-288)	Fiber type		rnal nator	Water block/ marking (1-8)			

Contact Customer Service for availability of non-standard offerings.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

			Nominal		Maximum Tensile Loading		Minimum Bend Radius	
Listing	Part Number ¹	Fiber Count	Diameter in (mm)	Nominal Weight lbs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)
OFNR	13006Dx0y	6	0.45 (11.4)	80 (119)	600 (2,700)	200 (890)	9.0 (228)	4.5 (114)
OFNR	13012Dx0y	12	0.45 (11.4)	80 (119)	600 (2,700)	200 (890)	9.0 (228)	4.5 (114)
OFNR	13024Dx0y	24	0.45 (11.4)	80 (119)	600 (2,700)	200 (890)	9.0 (228)	4.5 (114)
OFNR	13036Dx0y	36	0.45 (11.4)	80 (119)	600 (2,700)	200 (890)	9.0 (228)	4.5 (114)
OFNR	13048Dx0y	48	0.45 (11.4)	80 (119)	600 (2,700)	200 (890)	9.0 (228)	4.5 (114)
OFNR	13072Dx0y	72	0.48 (12.0)	93 (138)	600 (2,700)	200 (890)	9.6 (240)	4.8 (120)
OFNR	13096Dx0y	96	0.54 (13.8)	120 (179)	600 (2,700)	200 (890)	10.8 (276)	5.4 (138)
OFNR	13144Dx0y	144	0.68 (17.1)	184 (275)	600 (2,700)	200 (890)	13.6 (342)	6.8 (171)
OFNR	13216Dx0y	216	0.68 (17.1)	168 (251)	600 (2,700)	200 (890)	13.6 (342)	6.8 (171)
OFNR	13288Dx0y	288	0.79 (20.0)	221 (330)	600 (2,700)	200 (890)	15.8 (400)	7.9 (200)

FIBER TYPES:	SINGLE MODE						HYBRID	MULTIMO	ULTIMODE			
	Reduced	Zero	TeraFlex [®] Bend Resistant						TeraGain®	TeraFlex Bend Resistant Laser Optimized 50/125		
	Water Peak		G.657.A1	G.657.A2	G.657.B3	NZDS	LEAF	Hybrid	62.5/125	10G/150	10G/300	10G/550
¹ Replace "x" with:	3	2	К	J	L	8	S	Н	6	Μ	Ν	Р

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications

WATER BLOCK AND JACKET PRINT CODES										
	Dry	r core	Dry core specia							
	Feet	Meters	Feet	Meters						
¹ Replace "y" with:	1	2	5	6						



Loose Tube Indoor/Outdoor

OFNR Series 13

Flame and Sunlight	
Resistant Jacket	
Optical Fiber in PFM™ Gel-Filled Buffer Tube	
Central Strength Member	
Heat Resistant Tape	
Dielectric Water-Blocking Strength Members	
Rip Cord	

SPECIFICATIONS	
Fiber Count	Available in 6-fiber up to 288-fiber
Performance Compliance	Telcordia® GR-20-CORE, Issue 3 UL® 1666 RoHS-compliant
NRTL Programs	UL, c(UL) Listed OFNR
Telcordia is a registered trademark of Ericsson Ir.	nc. UL is a registered trademark of UL LLC.

ENVIRONMENTAL SPECIFICATIONS											
Operat	ion/St	orage			-40°C to +70°C						
Installation -10°C to +70°C											
PART	NUME	BER KEY									
1	3	_	_	_	х	х	0	У			
1	2	3	4	5	6	7	8	9			
Proc		Fiber c	ount (00	6-288)	Fiber type	Inte desig		Water block/ marking (1-8)			

Contact Customer Service for availability of non-standard offerings.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

PRODUCT DESCRIPTION

Loose tube riser cables are ideal for campus environments, private networks and local area networks. These dual purpose cables save money and installation time by allowing a direct transition from indoor to outdoor applications with a single cable. Because these cables are fully water blocked with dry elements, stripping and termination is faster. These cables comply with the standards for both Outside Plant (OSP) and indoor riser applications. The loose tube design offers reliable transmission performance over a broad temperature range. The durable loose tube design features optical fibers placed inside PFM[™] gel-filled buffer tubes. The core is constructed by stranding the buffer tubes around a central member using a reverse oscillating lay (ROL). It is wrapped with flexible strength members, covered with a heat resistant, water-blocking tape and then encased with a black, flame and sunlight resistant jacket. A rip cord is included under the jacket for ease of entry.

APPLICATIONS

- Underground duct and lashed aerial
- Trunk, distribution and feeder cable
- · Local loop, metro, long-haul and broadband network
- FEATURES BENEFITS • Available with up to 288-fiber High fiber density • Multiple fiber types Multiple network applications including hybrids
- UL Listed, sunlight resistant
- Dielectric outer strength members
- Dry (SAP) core standard
- Standard tube size for all fiber counts
- Transitions from indoor to outdoor Reduces labor cost to indoor with no termination
- PFM gel
- Non-sticky gel speeds fiber access and clean-up

 Longer cable life Eliminates grounding

or bonding problems

Reduces the number

 Reduces cable prep and installation time

of tools required

.

			Nominal		Maximum Te	nsile Loading	Minimum B	Minimum Bend Radius		
Listing Part Number ¹	Fiber Count	Diameter in (mm)	Nominal Weight lbs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Tern in (mm)			
OFNR	13006xx0y	6	0.45 (11.4)	80 (119)	600 (2,700)	200 (890)	9.0 (228)	4.5 (114)		
OFNR	13012xx0y	12	0.45 (11.4)	80 (119)	600 (2,700)	200 (890)	9.0 (228)	4.5 (114		
OFNR	13024xx0y	24	0.45 (11.4)	80 (119)	600 (2,700)	200 (890)	9.0 (228)	4.5 (114		
OFNR	13036xx0y	36	0.45 (11.4)	80 (119)	600 (2,700)	200 (890)	9.0 (228)	4.5 (114		
OFNR	13048xx0y	48	0.45 (11.4)	80 (119)	600 (2,700)	200 (890)	9.0 (228)	4.5 (114		
OFNR	13072xx0y	72	0.48 (12.0)	93 (138)	600 (2,700)	200 (890)	9.6 (240)	4.8 (120)		
OFNR	13096xx0y	96	0.54 (13.8)	120 (179)	600 (2,700)	200 (890)	10.8 (276)	5.4 (138)		
OFNR	13144xx0y	144	0.68 (17.1)	184 (275)	600 (2,700)	200 (890)	13.6 (342)	6.8 (171)		
OFNR	13216xx0y	216	0.68 (17.1)	168 (251)	600 (2,700)	200 (890)	13.6 (342)	6.8 (171)		
OFNR	13288xx0y	288	0.79 (20.0)	221 (330)	600 (2,700)	200 (890)	15.8 (400)	7.9 (200)		

	Reduced	Zero	TeraFlex [®] Bend Resistant						TeraGain®	TeraFlex Bend Resistant Laser Optimized 50/125		
		Water Peak	G.657.A1	G.657.A2	G.657.B3	NZDS	LEAF	Hybrid	62.5/125	10G/150	10G/300	10G/550
¹ For \leq 36 fibers replace "xx" with:	ЗT	2T	KT	JT	LT	8T	ST		10	MC	NC	DC
¹ For > 36 fibers replace "xx" with:	31	21	K1	J1	L1	81	S1	H_ 6G	MG N	NG	PG	
See "Ontical Eiher Specifications" in the "Technical Information" section for detailed fiber type specifications												

WATER BLOCK AND JACKET PRINT CODES										
	Dry	core	Dry core specia							
	Feet	Meters	Feet	Meters						
¹ Replace "y" with:	1	2	5	6						



All information, content, data, specifications, packaging and part numbers detailed herein are subject to change. For the most up-to-date information, please visit SuperiorEssex.com. Purchase of this product is subject exclusively to the then current **Superior Essex International LP Terms and Conditions of Sale for Communications and Energy Cable, Wire and Connectivity Products**, which can be found on our website, SuperiorEssex.com, or provided to you upon request.



PRODUCT DESCRIPTION

Interlock Armored Optical Fiber Cables provide for an extremely well protected cable package ideally suited for harsh environments. The armor is available in aluminum or steel and comes with an OFCR (riser) rating. This design offers the system designer a product that can be installed in high traffic areas where added mechanical protection and security are required. The flexible interlock armored cable design is also popular for retrofit applications and eliminates the need to install rigid conduit while still meeting building code guidelines.

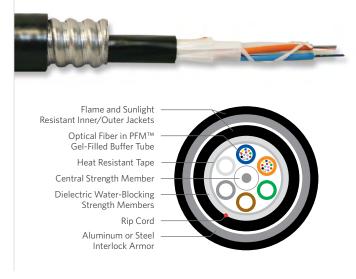
APPLICATIONS

- Intrabuilding backbones
- Conduit pathways
- Service entrance to communication closets

F

FE	ATURES	BI	ENEFITS
•	Thick, flexible metallic armor	•	Reduce incidences of circuit disruption due to rodents or mechanically abusive applications
•	Flame retardant, UL Listed designs	•	Eliminates the need for multiple cables for installation
	Full line of Superior Essay		Customized designs reduces

- Full line of Superior Essex cables available
- le
- Customized designs reduces cable inventory requirements



SPECIFICATIONS	
Fiber Count	Available in 6-fiber up to 144-fiber
Core Configuration	Loose Tube Indoor/Outdoor OFNR Series 13 cable
Interlock Armored	Flexible, heavy duty interlocking aluminum or steel tape helically applied over the inner cable core; further protection is provided by an optional outer jacket
Outer Jacket	Black, flame retardant, chemical resistant and sunlight resistant PVC
Performance Compliance	UL® 1569 Telcordia® GR-20-CORE, Issue 2 UL 1666 RoHS-compliant
NRTL Programs	UL, c(UL) Listed OFCR
UL is a registered trademar	k of UL LLC. Telcordia is a reaistered trademark of Ericsson Inc.

ENVIRONMENTAL SPECIFICATIONS	
Operation/Storage	-40°C to +70°C
Installation	-10°C to +70°C

PART NUMBER KEY 3 х 1 0 V 2 3 4 5 6 8 9 1 7 Product Water block/ Fiber Internal Fiber count (006-144) family marking (1-8) type designator

Contact Customer Service for availability of non-standard offerings.

				Nominal		Nominal Weight Ibs/kft (kg/km)		Maximum	Tensile Load	ding	nd Radius		
Listing	Part Number	¹ Fiber (Count	Diameter in (mm)				Install lbs (N)	0	Term (N)	Install in (mm)	Long Term in (mm)	
OFCR	L3006x10y	6		0.96 (24.3) 3	301 (448))	600 (2,700)	200	(890)	14.5 (367)	9.6 (243)	
OFCR	L3012x10y	1	2	0.96 (24.3) 3	301 (448))	600 (2,700)	200	(890)	14.5 (367)	9.6 (243)	
OFCR	L3024x10y	2	4	0.96 (24.3) 3	301 (448))	600 (2,700)	200	(890)	14.5 (367)	9.6 (243)	
OFCR	L3048x10y	4	3	0.96 (24.3) 3	301 (448))	600 (2,700)	200	(890)	14.5 (367)	9.6 (243)	
OFCR	L3072x10y	7.	2	1.01 (25.5) 3	316 (470)		600 (2,700)	200	(890)	15.2 (383)	10.1 (255)	
OFCR	L3096x10y	9	5	1.07 (27.1) 3	346 (515))	600 (2,700)	200	(890)	16.1 (406)	10.7 (271)	
OFCR	L3144x10y	14	4	1.20 (30.8) 4	424 (631))	600 (2,700)	200	(890)	18.3 (463)	12.2 (308)	
IBER TYPES:	SINGLE MO	DE						HYBRID	MULTIMODE				
	Reduced	Zero	TeraFle	ex® Bend Re	sistant				TeraGain®	TeraFlex Bend	l Resistant Laser O	ptimized 50/12	
	Water Peak	Water Peak	G.657.A1	G.657.A2	G.657.B3	NZDS	LEAF	Hybrid	62.5/125	10G/150	10G/300	10G/550	
Replace "x" with:	3	2	K	J	L	8	S	Н	6	Μ	Ν	Р	

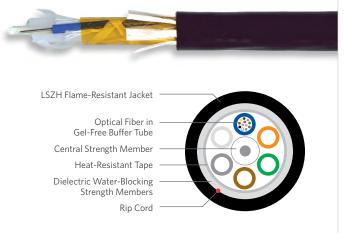
See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

WATER BLOCK AND JACKET PRINT CODES											
	Dry	core	Dry cor	e special							
	Feet	Meters	Feet	Meters							
¹ Replace "y" with:	1	2	5	6							



Loose Tube Single Jacket All Dielectric Indoor/Outdoor LSZH

Series HZD



SPECIFICATIONS	
Fiber Count	Available in 6-fiber up to 288-fiber
Performance Compliance	Telcordia® GR-20-CORE NFPA-130 UL® 1666 UL 1685 RoHS-compliant
NRTL Programs	UL, c(UL) Listed OFNR
Telcordia is a registered trademark of Ericsson	Inc. UL is a registered trademark of UL LLC.

ENVIRONMENTAL SPECIFICATIONS										
Operation/Storage	-40°C to +70°C									
Installation	-30°C to +70°C									

PRODUCT DESCRIPTION

Low Smoke Zero Halogen cables are ideal for indoor/outdoor applications such as campus environments, tunnels and subway passages. Series HZD cables comply with NFPA-130, UL 1666 and are rated OFNR-LS. These dual purpose cables save money and installation time by allowing a direct transition from indoor to outdoor applications with a single cable. Because these cables are fully water blocked with dry elements, stripping and termination is faster. These cables comply with the standards for both Outside Plant (OSP) and indoor riser applications. The loose tube design offers reliable transmission performance over a broad temperature range. The durable, loose tube design features optical fibers placed inside gelfree buffer tubes which are stranded around a central member. The core is wrapped with flexible strength members, covered with a heat-resistant, water-blocking tape and then encased with a black, flame and sunlightresistant jacket. A rip cord is included under the jacket for ease of entry.

APPLICATIONS

- Underground duct and lashed aerial
- Campus environment
- Tunnels, subways, rapid rail

FEATURES

- BENEFITS • Available with up to 288-fiber High fiber density Multiple network applications Multiple fiber types including hybrids • UL Listed, sunlight resistant Longer cable life Transitions from indoor to outdoor Reduces labor cost to indoor with no termination
- Gel free

Speeds fiber access and cleanup

ART NUMBER KE

PART NOIM	FART NUMBER NET														
F	Н	1	0	-	_	_	_	х	х	х	-	E	9	9	1 or 2
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Fiber cable	Cable type			-	Fiber count (006-288) Fiber type						-	Jacket color	Pac	kage	Jacket print

Contact Customer Service for availability of non-standard offerings.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

						Maximum Tensile Loading		Minimum P	end Radius
Listing	Previous Part Number	Current Part Number ¹	Fiber Count	Nominal Diameter in (mm)	Nominal Weight Ibs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)
OFNR-LS	HZ0063021	FH10-006xxx-E99y	6	0.47 (11.8)	92 (137)	600 (2,700)	200 (890)	9.4 (236)	4.7 (118)
OFNR-LS	HZ0123021	FH10-012xxx-E99y	12	0.47 (11.8)	92 (137)	600 (2,700)	200 (890)	9.4 (236)	4.7 (118)
OFNR-LS	HZ0243021	FH10-024xxx-E99y	24	0.47 (11.8)	92 (137)	600 (2,700)	200 (890)	9.4 (236)	4.7 (118)
OFNR-LS	HZ0363021	FH10-036xxx-E99y	36	0.47 (11.8)	92 (137)	600 (2,700)	200 (890)	9.4 (236)	4.7 (118)
OFNR-LS	HZ0483021	FH10-048xxx-E99y	48	0.47 (11.8)	92 (137)	600 (2,700)	200 (890)	9.4 (236)	4.7 (118)
OFNR-LS	HZ0603021	FH10-060xxx-E99y	60	0.47 (11.8)	92 (137)	600 (2,700)	200 (890)	9.4 (236)	4.7 (118)
OFNR-LS	HZ0723021	FH10-072xxx-E99y	72	0.49 (11.9)	106 (158)	600 (2,700)	200 (890)	9.8 (239)	4.9 (119)
OFNR-LS	HZ0963021	FH10-096xxx-E99y	96	0.56 (12.4)	124 (185)	600 (2,700)	200 (890)	11.2 (249)	5.6 (124)
OFNR-LS	HZ1443021	FH10-144xxx-E99y	144	0.69 (14.2)	169 (252)	600 (2,700)	200 (890)	13.8 (284)	6.9 (142)
OFNR-LS	HZ2163021	FH10-216xxx-E99y	216	0.69 (14.2)	169 (252)	600 (2,700)	200 (890)	13.8 (284)	6.9 (142)
OFNR-LS	HZ2883021	FH10-288xxx-E99y	288	0.97 (20.0)	207 (309)	600 (2,700)	200 (890)	19.4 (400)	9.7 (200)

FIBER TYPES:	SINGLE I	MODE				HYBRID	MULTIMODE							
	Reduced Water	Corning® RWP	Zero	TeraFle	x® Bend Re	sistant			Hybrid	TeraGain®	TeraFlex Bend Resistant Laser Optimized 50/125			
	Peak		Water Peak	G.657.A1	G.657.A2	G.657.B3	NZDS	LEAF			10G/150	10G/300	10G/550	
¹ Replace "xxx" with:	U10	C10	U17	U13	U14	U15	U19	C19	call for info	U23	U28	U30	U32	

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

JACKET PRINT		
	Feet	Meters
¹ Replace "y" with:	1	2



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Loose Tube Single Jacket Single Armor Indoor/Outdoor LSZH

PRODUCT DESCRIPTION

Low Smoke Zero Halogen cables are ideal for indoor/outdoor applications such as campus environments, tunnels and subway passages. Series HZA cables comply with NFPA-130, UL 1666 and are rated OFCR-LS. These dual purpose cables save money and installation time by allowing a direct transition from indoor to outdoor applications with a single cable. Because these cables are fully water blocked with dry elements, stripping and termination is faster. These cables comply with the standards for both Outside Plant (OSP) and indoor riser applications. The loose tube design offers reliable transmission performance over a broad temperature range. The durable, loose tube design features optical fibers placed inside gel-free buffer tubes which are stranded around a central member. The core is wrapped with flexible strength members, covered with a heat-resistant, water-blocking tape, corrugated steel armor and then encased with a black, flame and sunlightresistant jacket. A rip cord is included under the jacket for ease of entry.

APPLICATIONS

- Underground duct and lashed aerial
- Campus environment
- Tunnels, subways, rapid rail

FEATURES

- Available with up to 288-fiber Multiple fiber types including hybrids
- UL Listed, sunlight resistant
- Transitions from indoor to outdoor to indoor with no termination
- Gel free

 Longer cable life Reduces labor cost

High fiber density

BENEFITS

Speeds fiber access and cleanup

Multiple network applications

F	Н	2	6	-	_	_	_	х	х	х	-	E	9	9	1 or 2
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Fiber cable	Cable type			-	Fiber	count (006	5-288)	Fiber type -			-	Jacket color	Pack	kage	Jacket print

PART NUMBERS AND PHYSICAL CHARACTERISTICS

				Nominal		Maximum Te	ensile Loading	Minimum E	Bend Radius
Listing	Previous Part Number	Current Part Number ¹	Fiber Count	Diameter in (mm)	Nominal Weight lbs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)
OFCR-LS	HZ0063121	FH26-006xxx-E99y	6	0.52 (13.2)	129 (192)	600 (2,700)	200 (890)	10.4 (264)	5.2 (132)
OFCR-LS	HZ0123121	FH26-012xxx-E99y	12	0.52 (13.2)	129 (192)	600 (2,700)	200 (890)	10.4 (264)	5.2 (132)
OFCR-LS	HZ0243121	FH26-024xxx-E99y	24	0.52 (13.2)	129 (192)	600 (2,700)	200 (890)	10.4 (264)	5.2 (132)
OFCR-LS	HZ0363121	FH26-036xxx-E99y	36	0.52 (13.2)	129 (192)	600 (2,700)	200 (890)	10.4 (264)	5.2 (132)
OFCR-LS	HZ0483121	FH26-048xxx-E99y	48	0.52 (13.2)	129 (192)	600 (2,700)	200 (890)	10.4 (264)	5.2 (132)
OFCR-LS	HZ0603121	FH26-060xxx-E99y	60	0.52 (13.2)	129 (192)	600 (2,700)	200 (890)	10.4 (264)	5.2 (132)
OFCR-LS	HZ0723121	FH26-072xxx-E99y	72	0.55 (14.0)	129 (192)	600 (2,700)	200 (890)	11.0 (279)	5.5 (140)
OFCR-LS	HZ9603121	FH26-096xxx-E99y	96	0.62 (15.7)	145 (216)	600 (2,700)	200 (890)	12.4 (315)	6.2 (157)
OFCR-LS	HZ1443121	FH26-144xxx-E99y	144	0.75 (19.0)	170 (254)	600 (2,700)	200 (890)	15.0 (381)	7.5 (191)
OFCR-LS	HZ2163121	FH26-216xxx-E99y	216	0.75 (19.0)	170 (254)	600 (2,700)	200 (890)	15.0 (381)	7.5 (191)
OFCR-LS	HZ2883121	FH26-288xxx-E99y	288	0.87 (22.0)	288 (430)	600 (2,700)	200 (890)	17.4 (444)	8.7 (220)

FIBER TYPES:	SINGLE MODE							HYBRID	MULTIMO	DE			
	Reduced Water Corning®		Zero	TeraFlex [®] Bend Resistant						TeraGain®	TeraFlex Bend Resistant Laser Optimized 50/125		
	Peak	RWP	Water Peak	G.657.A1	G.657.A2	G.657.B3	NZDS	LEAF	Hybrid	62.5/125	10G/150	10G/300	10G/550
¹ Replace "xxx" with:	U10	C10	U17	U13	U14	U15	U19	C19	call for info	U23	U28	U30	U32

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

JACKET PRINT		
	Feet	Meters
¹ Replace "y" with:	1	2

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Corrugated Steel Armor Optical Fiber in Gel-Free Buffer Tube Heat-Resistant Tape Central Strength Member Dielectric Water-Blocking Strength Members Rip Cords LSZH Flame-Resistant Jacket

SPECIFICATIONS	
Fiber Count	Available in 6-fiber up to 288-fiber
Performance Compliance	Telcordia® GR-20-CORE NFPA-130 UL® 1666 UL 1685 RoHS-compliant
NRTL Programs	UL, c(UL) Listed OFNR
Telcordia is a registered trademark of Ericsson Inc.	UL is a registered trademark of UL LLC. Corning is

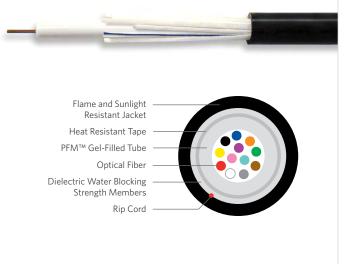
a registered trademark of Corning Incorporated.

ENVIRONMENTAL SPECIFICATIONS	
Operation/Storage	-40°C to +70°C
Installation	-30°C to +70°C

PART NUM	BER KEY														
F	Н	2	6	-	_	_	_	х	х	х	-	E	9	9	1 or 2
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Fiber cable		Cable type	9	-	Fiber	Fiber count (006-288)			Fiber type		-	Jacket color	Pac	kage	Jacket print
Contact Custome	er Service foi	r availability o	of non-stand	ard off	erinas.										

Single Loose Tube Indoor/Outdoor

OFNR Series 53



SPECIFICATIONS	
Fiber Count	Available in 6-fiber up to 96-fiber
Performance Compliance	Telcordia® GR-20-CORE, Issue 3 UL® 1666 RoHS-compliant
NRTL Programs	UL, c(UL) Listed OFNR
Telcordia is a registered trademark of Erics	son Inc. UL is a registered trademark of UL LLC.

ENVIRONMENTAL SPECIFICATIONS	
Operation/Storage	-40°C to +70°C
Installation	-10°C to +70°C

PART	NUME	BER KEY						
5	3	_	_	_	х	х	0	У
1	2	3	4	5	6	7	8	9
Proc farr		Fiber co	ount (00	6-096)	Fiber type	Inte desig	rnal nator	Water block/ marking (1-8)

Contact Customer Service for availability of non-standard offerings.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Maximum Tensile Loading Minimum Bend Radius Nominal Nominal Weight Long Term Diameter Install Install Long Term Listing Part Number¹ Fiber Count lbs/kft (kg/km) lbs (N) lbs (N) in (mm) in (mm) in (mm) OFNR 53006xx0y 6 0.30 (7.5) 35 (53) 600 (2,700) 200 (890) 6.0 (150) 3.0 (75) OFNR 53012xx0y 12 0.30 (7.5) 35 (53) 600 (2,700) 200 (890) 6.0 (150) 3.0 (75) OFNR 53024xx0y 24 0.37 (9.5) 52 (77) 600 (2,700) 200 (890) 7.4 (190) 3.7 (95) OFNR 0 37 (9 5) 200 (890) 53036xx0v 36 52 (77) 600(2700)7.4 (190) 37(95) OFNR 48 53048xx0y 0.37 (9.5) 52 (77) 600 (2,700) 200 (890) 7.4 (190) 3.7 (95) OFNR 53072xx0y 72 0.50 (12.8) 96 (143) 600 (2,700) 200 (890) 10.0 (256) 5.0 (128) OFNR 53096xx0y 96 0.50 (12.8) 96 (143) 600 (2,700) 200 (890) 10.0 (256) 5.0 (128)

FIBER TYPES:	SINGLE MODE							MULTIMODE				
	Reduced Zero Water Peak Water Peak		TeraFlex [®] Bend Resistant					TeraGain®	TeraFlex Bend Resistant Laser Optimized 50/125			
			G.657.A1	G.657.A2	G.657.B3	NZDS	LEAF	62.5/125	10G/150	10G/300	10G/550	
¹ Replace "xx" with:	31	21	K1	J1	L1	81	S1	6G	MG	NG	PG	

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

WATER BLOCK AND JACKET PRINT CODES						
	Dry	' core	Dry cor	e special		
	Feet	Meters	Feet	Meters		
¹ Replace "y" with:	1	2	5	6		



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PRODUCT DESCRIPTION

Loose tube riser cables are ideal for campus environments, private networks and local area networks. These dual purpose cables save money and installation time by allowing a direct transition from indoor to outdoor applications with a single cable. Loose tube cables are the product of choice as the backbone in Outside Plant (OSP) applications. Single Loose tube cables offer a low cost alternative to traditional stranded loose tube cables. The loose tube design offers reliable transmission performance over a broad temperature range. The durable single loose tube design features optical fibers placed inside a single PFM[™] gel-filled tube. The core tube includes up to 8-fiber bundles, each containing up to 12 optical fibers bound with a color coded binder. The core tube is then helically wrapped with water-blocking strength members, then encased with a black, flame resistant jacket. A rip cord is included under the jacket to provide ease of access to the core tube.

APPLICATIONS

- UL Listed sunlight resistant indoor/outdoor
- Lashed aerial, duct or riser .
- Inter-building connection .
- Campus environments .

FEATURES

FEATURES	BENEFITS
• Available with up to 96-fiber	 High fiber density
 Multiple fiber types 	 Multiple network applications
• UL Listed, sunlight resistant	 Longer cable life
 Dielectric outer strength members 	 Eliminates grounding or bonding problems
Dry (SAP) core standard	 Reduces cable prep and installation time
Highly flexible	 Easy handling
Small cable diameter	 Installation of more fibers in less space
Fewer cable components	 Reduces cost
Transitions from indoor to outdoor to indoor with no termination	Reduces labor cost
 PFM gel 	 Non-sticky gel speeds fiber

- Non-sticky gel speeds fiber access and clean-up

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PRODUCT DESCRIPTION

Heavy Duty Loose Tube OFNR Cables are ideally suited for harsh environment applications including mining, steel mills, refineries, lumber mills and many other situations requiring a durable cable construction. These cables have been specifically designed to have greater tensile, crush and impact ratings. With a dual layer of flexible strength members and a double layer of durable flame retardant and sunlight resistant jackets, this cable design possesses features ideal for environmentally demanding applications. The heavy duty loose tube design features optical fibers placed inside PFM[™] gel-filled buffer tubes. The core is constructed by stranding the buffer tubes around a central member using reverse oscillating lay (ROL). The core is wrapped with flexible strength members and covered by a water-blocking tape, then encased in a black flame resistant jacket. A second layer of flexible strength members is applied and then encased in a black, flame and sunlight resistant jacket. Rip cords are included under each jacket for ease of entry.

APPLICATIONS

- IEEE networks from 10 Mbps to 10 Gbps
- Long vertical runs
- Cable trays
- Outdoor/indoor pathways

FE	EATURES	В	ENEFITS
•	Multiple fiber types including hybrids	•	Multiple network applications
•	UL Listed, sunlight resistant	•	Longer cable life
•	Transitions from indoor to outdoor	•	Reduces labor costs
•	Heavy duty design	•	Allows for harsh environment application
•	PFM gel	•	Non-sticky gel speeds fiber access and clean-up

Dielectric Water-Blocking Strength Members	
Optical Fiber in PFM™ Gel-Filled Buffer Tube	
Heat Resistant Tape	
Central Strength Member	
Rip Cords	

SPECIFICATIONS

Flame Resistant Inner Jacket

Flame and Sunlight Resistant Outer Jacket

Fiber Count	Available in 6-fiber up to 216-fiber
Performance Compliance	Telcordia [®] GR-20-CORE, Issue 3 UL [®] 1666 RoHS-compliant
NRTL Programs	UL, c(UL) Listed OFNR
Telcordia is a registered trademark of Ericsson Inc.	UL is a registered trademark of UL LLC.

ENVIR	ENVIRONMENTAL SPECIFICATIONS											
Opera	tion/Sto	orage			-40°C to +70°C							
Installa	ation				-10°C	to +70°0	2					
PART	NUMB	ER KEY										
1	Н	-	_	-	х	х	0	У				
	_	-		_		_	-					

T	н	-	-	-	х	Х	0	У
1	2	3	4	5	6	7	8	9
Product family		Fiber co	ount (00	6-216)	Fiber type	Inte desig		Water block/ marking (1-8)

Contact Customer Service for availability of non-standard offerings.

PART NUT	VIBERS AND P	TISICA		RISTICS							
	Nominal				Maximum Tensile Loading		Minimum Bend Radius				
Listing	Part Number ¹	Fiber Count	Diameter in (mm)	Nominal Weight lbs/kft (kg/km)	Impact n*m	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)	Crush Ibs/in (N/cm)	Vertical Rise ft (m)
OFNR	1H006xx0y	6	0.52 (13.1)	112 (167)	4.41	600 (2,700)	200 (890)	10.4 (262)	5.2 (131)	260 (450)	2,200 (671)
OFNR	1H012xx0y	12	0.52 (13.1)	112 (167)	4.41	600 (2,700)	200 (890)	10.4 (262)	5.2 (131)	260 (450)	2,200 (671)
OFNR	1H024xx0y	24	0.52 (13.1)	112 (167)	4.41	600 (2,700)	200 (890)	10.4 (262)	5.2 (131)	260 (450)	2,200 (671)
OFNR	1H036xx0y	36	0.52 (13.1)	112 (167)	4.41	600 (2,700)	200 (890)	10.4 (262)	5.2 (131)	260 (450)	2,200 (671)
OFNR	1H048xx0y	48	0.52 (13.1)	112 (167)	4.41	600 (2,700)	200 (890)	10.4 (262)	5.2 (131)	260 (450)	2,200 (671)
OFNR	1H072xx0y	72	0.54 (14.3)	125 (186)	5.15	600 (2,700)	200 (890)	10.8 (286)	5.4 (143)	260 (450)	1,840 (560)
OFNR	1H096xx0y	96	0.61 (16.0)	156 (231)	5.88	600 (2,700)	200 (890)	12.1 (320)	6.1 (160)	260 (450)	1,450 (443)
OFNR	1H144xx0y	144	0.74 (19.6)	221 (328)	6.62	600 (2,700)	200 (890)	14.8 (392)	7.4 (196)	260 (450)	1,050 (320)
OFNR	1H216xx0y	216	0.74 (19.6)	221 (328)	6.62	600 (2,700)	200 (890)	14.8 (392)	7.4 (196)	260 (450)	1,050 (320)

FIBER TYPES:	SINGLE MC	SINGLE MODE							HYBRID MULTIMODE			
	Reduced Zero TeraFlex® Bend Resistant					TeraGain®		TeraFlex Bend Resistant Laser Optimized 50/125				
	Water Peak	Water Peak	G.657.A1	G.657.A2	G.657.B3	NZDS LEAF		Hybrid	62.5/125	10G/150	10G/300	10G/550
¹ For \leq 36 fibers replace "xx" with:	ЗT	2T	KT	JT	LT	8T	ST		6G	MC	NG	DC
¹ For > 36 fibers replace "xx" with:	31	21	K1	J1	L1	81	S1	п_	6G	MG	NG	PG

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

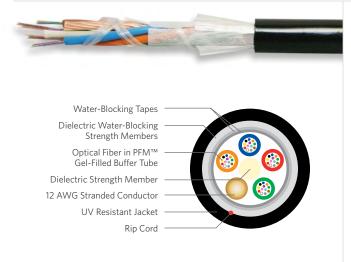
WATER BLOCK AND JACKET PRINT CODES									
	Dry	core	Dry core speci						
	Feet	Meters	Feet	Meters					
¹ Replace "y" with:	1	2	5	6					

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Loose Tube 12 AWG Composite

Series 1N



SPECIFICATIONS	
Fiber Count	Available in 12-fiber up to 48-fiber
Standards Compliance	Telcordia® GR-20-CORE RoHS-compliant

Telcordia is a registered trademark of Ericsson Inc.

ENVIRONMENTAL SPECIFICATIONS							
Operation/Storage	-40°C to +70°C						
Installation	-30°C to +70°C						

PART	NUME	BER KEY						
1	Ν	_	_	_	х	х	0	У
1	2	3	4	5	6	7	8	9
Product family		Fiber c	ount (01	2-048)	Fiber type		rnal nator	Water block/ marking (1-8)

Contact Customer Service for availability of non-standard offerings.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

				Maximum Tensile Loading		Minimum I	Bend Radius
Part Number ¹	Fiber Count	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)
1N012xx0y	12	0.41 (10.3)	76 (113)	600 (2,700)	200 (890)	8.2 (206)	4.1 (103)
1N024xx0y	24	0.41 (10.3)	76 (113)	600 (2,700)	200 (890)	8.2 (206)	4.1 (103)
1N036xx0y	36	0.41 (10.3)	76 (113)	600 (2,700)	200 (890)	8.2 (206)	4.1 (103)
1N048xx0y	48	0.41 (10.3)	76 (113)	600 (2,700)	200 (890)	8.2 (206)	4.1 (103)

FIBER TYPES:

	Reduced Zero		TeraFle	ex® Bend Re				
	Water Peak	Water Peak	G.657.A1	G.657.A2	G.657.B3	NZDS	LEAF	Hybi
¹ For \leq 36 fibers replace "xx" with:	ЗT	2T	KT	JT	LT	8T	ST	
¹ For > 36 fibers replace "xx" with:	31	21	K1	J1	L1	81	S1	п_
6 110 11 1 FT 6 111 11 11 11		0 11 12 C	1.1.11.1.01	10.0				

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

WATER BLOCK AND JACKET PRINT CODES								
	Dry	core	Dry cor	e special				
	Feet	Meters	Feet	Meters				
¹ Replace "y" with:	1	2	5	6				

PRODUCT DESCRIPTION

Loose Tube 12 AWG Composite Cable is a stranded, single jacket, nonarmored, gel-filled loose tube cable containing a 12 AWG stranded conductor, which provides long distance tone for location. A rip cord is included under the jacket to provide ease of entry.

APPLICATIONS

- Underground duct and lashed aerial
- Broadband network

BENEFITS

- FEATURES Available with up to 48-fiber High fiber density • Multiple fiber types Multiple network applications PFM[™] gel • Non-sticky gel speeds fiber access and clean-up Dry (SAP) core standard . Reduces cable prep
- Multiple fiber vendors
- 12 AWG stranded conductor
- and installation time
- Meets customer preferences
- Meets 10 Ohms/mile standard

'BRID	MULTIMODE							
	TeraGain®	TeraFlex Bend Resistant Laser Optimized 50/125						
ybrid	62.5/125	10G/150	10G/300	10G/550				
Н_	6G	MG	NG	PG				

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PRODUCT DESCRIPTION

UG FTTP are all dielectric cables designed for Outside Plant (OSP) applications, specifically as a drop cable. The reduced diameter maximizes duct space and offers the lowest installed cost. The loose tube design offers reliable transmission performance over a broad temperature range. The single loose tube design features optical fibers placed inside a single PFM[™] gel-filled tube. The core tube contains up to 12 optical fibers. The core tube is then helically wrapped with waterblocking strength members and encased with a black jacket. A rip cord is included to provide ease of access to the cable core.

APPLICATIONS

- Drop cables
- Broadband network
- Local loop
- Fiber to the premise

FFATURES

- · Available with up to 12-fiber
- . Multiple fiber types including TeraFlex[®] bend resistant
- Dielectric outer strength members
- · Highly flexible
- Small cable diameter
- Dry (SAP) core design
- PFM gel

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High fiber density

BENEFITS

- Multiple network applications
- Eliminates grounding or bonding problems
- Easy handling
- Installation of more fibers in less space, reduced cost
- Reduces cable prep and installation time
- Non-sticky gel allows for easier and faster clean up

UV Resistant Jacket	
PFM™ Gel-Filled Tube Optical Fiber	
Dielectric Water Blocking Strength Members	
Rip Cords	

SPECIFICATIONS	
Fiber Count	Available in 2-fiber up to 12-fiber
Standards Compliance	Telcordia [®] GR-20-CORE RDUP PE-90 Designation 513 RoHS-compliant
Telcordia is a registered trademark of Ericsson Inc.	

ENVIRONMENTAL SPECIFICATIONS				
Operation/Storage	-40°C to +70°C			
Installation	-30°C to +70°C			

PART	NUME	BER KEY						
5	1	_	_	-	х	х	0	У
1	2	3	4	5	6	7	8	9
Product family		Fiber co	ount (00	2-012)	Fiber type		ernal mator	Water block/ marking (1-8)

Contact Customer Service for availability of non-standard offerings.

PART NUMBERS AND PHYSICAL CHARACTERISTICS Maximum Tensile Loading Minimum Bend Radius Nominal Diameter Approx. Weight Install Long Term Install Long Term Part Number¹ Fiber Count lbs/kft (kg/km) lbs (N) lbs (N) in (mm) in (mm) in (mm) 51002xx0v 2 0.26 (6.7) 26 (38) 300 (1,335) 100 (445) 5.2 (132) 2.6 (66) 51004xx0y Λ 0.26 (6.7) 26 (38) 300 (1,335) 100 (445) 5.2 (132) 2.6 (66) 51006xx0y 6 0.26 (6.7) 26 (38) 300 (1,335) 100 (445) 5.2 (132) 2.6 (66) 51008xx0y 8 26 (38) 100 (445) 5.2 (132) 2.6 (66) 0.26 (6.7) 300 (1.335) 12 51012xx0y 0.26 (6.7) 26 (38) 300 (1,335) 100 (445) 5.2 (132) 2.6 (66)

FIBER TYPES:	SINGLE MODE						MULTIMODE				
	Reduced	Zero	TeraF	TeraFlex® Bend Resistant			TeraGain [®] TeraFlex Bend Resistant Las			timized 50/125	
	Water Peak	Water Peak	G.657.A1	G.657.A2	G.657.B3	NZDS	LEAF	62.5/125	10G/150	10G/300	10G/550
¹ Replace "xx" with:	33	23	K3	J3	L3	83	S3	6G	MG	NG	PG
See "Optical Fiber Specifica	See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.										

WATER BLOCK AND JACKET PRINT CODES								
	Dry	core	Dry core speci					
	Feet	Meters	Feet	Meters				
¹ Replace "y" with:	1	2	5	6				

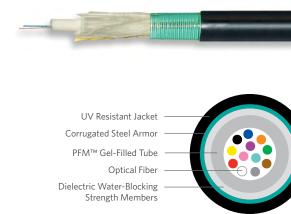




Buried FTTP, Steel Armor

Series 52S

OSP CABLE



SPECIFICATIONS	
Fiber Count	Available in 2-fiber up to 12-fiber
Standards Compliance	Telcordia® GR-20-CORE RDUP PE-90 Designation 52S RoHS-compliant

Telcordia is a registered trademark of Ericsson Inc.

ENVIRONMENTAL SPECIFICATIONS					
Operation/Storage	-40°C to +70°C				
Installation	-30°C to +70°C				

PART	NUME	BER KEY						
5	2	_	_	-	х	S	0	У
1	2	3	4	5	6	7	8	9
	Product family Fiber count (002-012)		Fiber type	Internal designator		Water block/ marking (1-8)		

Contact Customer Service for availability of non-standard offerings.

PRODUCT DESCRIPTION

Buried FTTP cables are designed for Outside Plant (OSP) applications, specifically as a drop cable. The reduced diameter maximizes duct space and offers additional armoring protection. The loose tube design offers reliable transmission performance over a broad temperature range. The durable single loose tube design features optical fibers placed inside a single PFM[™] gel-filled tube. The core tube contains up to 12 optical fibers. The core tube is then helically wrapped with water-blocking strength members. A corrugated steel armor is applied and encased with a black jacket.

APPLICATIONS

- Drop cables
- Broadband network
- Local loop
- · Fiber to the premise

FEATURES

- Corrugated steel armor
- Multiple fiber types including TeraFlex[®] bend resistant
- Dielectric outer strength members
- Highly flexible
- Small cable diameter
- Color coded fibers
- Dry (SAP) core design
- PFM gel

- BENEFITS
- Additional compressive strength and rodent protection
- Multiple network applications
- Eliminates grounding or bonding problems
- Easy handling
- Installation of more fibers . in less space, reduced cost
- Easy identification during installation
- Reduces cable prep and installation time
- Non-sticky gel allows for easier and faster clean up

ART NUMBERS AI	ND PHYSICAL CH	ARACTERISTICS					
				Maximum Tensile Loading		Minimum I	Bend Radius
Part Number ¹	Fiber Count	Nominal Diameter in (mm)	Nominal Weight lbs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)
52002xS0y	2	0.32 (8.2)	51 (77)	300 (1,335)	100 (445)	6.4 (163)	3.2 (8.2)
52004xS0y	4	0.32 (8.2)	51 (77)	300 (1,335)	100 (445)	6.4 (163)	3.2 (8.2)
52006xS0y	6	0.32 (8.2)	51 (77)	300 (1,335)	100 (445)	6.4 (163)	3.2 (8.2)
52008xS0y	8	0.32 (8.2)	51 (77)	300 (1,335)	100 (445)	6.4 (163)	3.2 (8.2)
52012xS0y	12	0.32 (8.2)	51 (77)	300 (1,335)	100 (445)	6.4 (163)	3.2 (8.2)

FIBER TYPES:	SINGLE MODE					MULTIMODE			
	Reduced Zero		TeraFlex [®] Bend Resistant					TeraGain®	TeraFle
		Water Peak	G.657.A1	G.657.A2	G.657.B3	NZDS		62.5/125	10G
¹ Replace "x" with:	3	2	К	J	L	8	S	6	
Cool "On the of File on Cool of	· · · · · · · · · · · · · · · · · · ·	-		A - 11 - 21 A 11 A					

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

WATER BLOCK AND JACKET PRINT CODES						
	Dry core		Dry cor	e special		
	Feet	Meters	Feet	Meters		
¹ Replace "y" with:	1	2	5	6		

Ρ

IDS (IN)	IDS (IN)	In
300 (1,335)	100 (445)	6.4
300 (1,335)	100 (445)	6.4
300 (1,335)	100 (445)	6.4
300 (1,335)	100 (445)	6.4
300 (1,335)	100 (445)	6.4

MULTIMO	DE		
TeraGain®	TeraFlex Bend R	Resistant Laser Op	timized 50/125
62.5/125	10G/150	10G/300	10G/550

Ν

Μ

Buried FTTP, Steel Armor

PRODUCT DESCRIPTION

Buried FTTP cables are designed for Outside Plant (OSP) applications, specifically as a drop cable. The reduced diameter maximizes duct space and offers additional armoring protection. The loose tube design offers reliable transmission performance over a broad temperature range. The durable single loose tube design features optical fibers placed inside a single PFM[™] gel-filled tube. The core tube contains up to 12 optical fibers. The core tube is then helically wrapped with water-blocking strength members. A corrugated steel armor is applied and encased with a black jacket. Rip cords are included to speed access to the fibers.

APPLICATIONS

- Drop cables
- Broadband network
- Local loop
- Fiber to the premise

FEATURES

- Corrugated steel armor
- Multiple fiber types including TeraFlex[®] bend resistant
- Dielectric outer strength members
- Highly flexible
- Small cable diameter
- Rip cords
- Dry (SAP) core design
- PFM gel

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- Additional compressive strength
 and rodent protection
- Multiple network applications
- Eliminates grounding or bonding problems
- Easy handling

BENEFITS

- Installation of more fibers in less space, reduced cost
- Easy access to fibers
 Reduces cable prep and installation time
- Non-sticky gel allows for easier and faster clean up

Strength Members Rip Cords

SPECIFICATIONS	
Fiber Count	Available in 2-fiber up to 12-fiber
Standards Compliance	Telcordia [®] GR-20-CORE RDUP PE-90 Designation 52S RoHS-compliant
Talcardia is a registered trademark of Ericsson Inc.	

ENVIRONMENTAL SPECIFICATIONS	
Operation/Storage	-40°C to +70°C
Installation	-30°C to +70°C

PART	NUME	BER KEY						
5	2	-	_	-	х	U	0	У
1	2	3	4	5	6	7	8	9
	Product Fiber count (002-012) family		Fiber type	Internal designator		Water block/ marking (1-8)		

Contact Customer Service for availability of non-standard offerings.

PART NUMBERS AND PHYSICAL CHARACTERISTICS Maximum Tensile Loading Minimum Bend Radius Nominal Diameter Nominal Weight Install Long Term Install Long Term Part Number¹ Fiber Count lbs/kft (kg/km) lbs (N) lbs (N) in (mm) in (mm) in (mm) 52002xU0v 2 0.32 (8.2) 51 (77) 300 (1,335) 100 (445) 6.4 (163) 3.2 (8.2) 52004xU0y Λ 0.32 (8.2) 51 (77) 300 (1,335) 100 (445) 6.4 (163) 3.2 (8.2) 52006xU0y 6 0.32 (8.2) 51 (77) 300 (1,335) 100 (445) 6.4 (163) 3.2 (8.2) 52008xU0y 8 100 (445) 6.4 (163) 3.2 (8.2) 0.32 (8.2) 51 (77) 300 (1.335) 12 52012xU0y 0.32 (8.2) 51 (77) 300 (1,335) 100 (445) 6.4 (163) 3.2 (8.2)

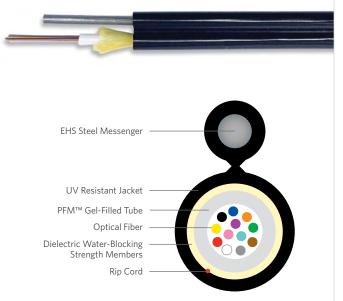
FIBER TYPES:	SINGLE MODE					MULTIMO	IMODE				
	Reduced Zero Ter		TeraF	lex® Bend Res	istant			TeraGain [®] TeraFlex Bend Resistant Laser Optimized 5			timized 50/125
		Water Peak	G.657.A1	G.657.A2	G.657.B3	NZDS	LEAF	62.5/125	10G/150	10G/300	10G/550
¹ Replace "x" with:	3	2	К	J	L	8	S	6	Μ	N	Р

WATER BLOCK AND JACKET PRINT CODES						
	Dry	core	Dry core specia			
	Feet	Meters	Feet	Meters		
¹ Replace "y" with:	1	2	5	6		





Series 573Q



SPECIFICATIONS

Fiber Count	Available in 1-fiber up to 12-fiber inside a PFM gel-filled loose buffer tube
Strength Members	2.1 mm solid steel wire
Jacket	Black, weather resistant PVC jacket
Standards Compliance	Telcordia® GR-20-CORE RDUP PE-90 Designation 573Q RoHS-compliant

Telcordia is a registered trademark of Ericsson Inc.

ENVIRONMENTAL SPECIFICATIONS Operation/Storage -40°C to +70°C Installation -10°C to +70°C

PART N	UMBER	KEY						
5	7	_	_	_	х	2	3	Q
1	2	3	4	5	6	7	8	9
Produc	t family	Fiber o	count (00	1-012)	Fiber type	Inter	nal desig	nator

Contact Customer Service for availability of non-standard offerings.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

		Nominal D	Dimensions		Maximum Te	nsile Loading	Minimum	Minimum Bend Radius	
Part Number ¹	Fiber Count	Minor in (mm	Major in (mm)	Nominal Weight lbs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)	
57001x23Q	1	0.18 (4.5)	0.35 (8.9)	34 (50)	300 (1,334)	90 (400)	3.6 (91)	1.8 (46)	
57002x23Q	2	0.18 (4.5)	0.35 (8.9)	34 (50)	300 (1,334)	90 (400)	3.6 (91)	1.8 (46)	
57004x23Q	4	0.18 (4.5)	0.35 (8.9)	34 (50)	300 (1,334)	90 (400)	3.6 (91)	1.8 (46)	
57006x23Q	6	0.18 (4.5)	0.35 (8.9)	34 (50)	300 (1,334)	90 (400)	3.6 (91)	1.8 (46)	
57008x23Q	8	0.18 (4.5)	0.35 (8.9)	34 (50)	300 (1,334)	90 (400)	3.6 (91)	1.8 (46)	
57012x23Q	12	0.18 (4.5)	0.35 (8.9)	34 (50)	300 (1,334)	90 (400)	3.6 (91)	1.8 (46)	

FIBER TYPES:	SINGLE MO	SINGLE MODE						MULTIMODE			
	Reduced	Zero	TeraF	TeraFlex [®] Bend Resistant				TeraGain®	TeraFlex Bend Resistant Laser Optimized 50/125		
	Water Peak	Water Peak	G.657.A1	G.657.A2	G.657.B3	NZDS	LEAF	62.5/125	10G/150	10G/300	10G/550
¹ Replace "x" with:	3	2	К	J	L	8	S	6	Μ	Ν	Р

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.



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PRODUCT DESCRIPTION

APPLICATIONS

Local loopFiber to the premise

FEATURES

12-fiber

PFM gel

PVC jacket

Steel messenger

Broadband network

• Available with 1-fiber up to

Multiple fiber types including

TeraFlex[®] bend resistant

Dry (SAP) core standard

Aerial self support drop cables

Figure 8 FTTP offers an aerial solution for fiber to the premise applications. This small profile aerial cable incorporates a 2.1 mm solid steel wire supporting a single enhanced loose tube containing up to 12 optical fibers and PFM[™] gel. The small profile reduces cost and problems associated with wind or ice load. This is a water-blocked design, using a "dry" water-absorbing thread to prevent the migration of moisture. A black, weather resistant jacket of PVC completes the cable construction.

BENEFITS

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Offers the maximum bandwidth

Multiple network applications

Allows use of standard hardware

for FTTP business, etc.

 Non-sticky gel reduces installation time and labor cost

Reduces cable prep

Improves flexibility

and installation time

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Buried FTTP, Aluminum Armor

PRODUCT DESCRIPTION

Buried FTTP cables are designed for Outside Plant (OSP) applications, specifically as a drop cable. The reduced diameter maximizes duct space and offers additional armoring protection. The loose tube design offers reliable transmission performance over a broad temperature range. The durable single loose tube design features optical fibers placed inside a single PFM[™] gel-filled tube. The core tube contains up to 12 optical fibers. The core tube is then helically wrapped with water-blocking strength members. A corrugated aluminum armor is applied and encased with a black jacket. Rip cords are included under the armor for ease of access to the core tube.

APPLICATIONS

- Drop cables
- Broadband network
- Local loop
- · Fiber to the premise

FEATURES	BENEFITS
Corrugated aluminum armor	 Additional compressive strength and rodent protection
 Multiple fiber types including TeraFlex[®] bend resistant 	Multiple network applications
 Dielectric outer strength members 	 Eliminates grounding or bonding problems
 Highly flexible 	 Easy handling
Small cable diameter	 Installation of more fibers in less space, reduced cost
Color coded fibers	 Easy identification during installation
Dry (SAP) core design	 Reduces cable prep and installation time
• PFM gel	 Non-sticky gel allows for easier and faster clean up

UV Resistant Jacket Corrugated Aluminum Armor PFM™ Gel-Filled Tube **Optical Fiber** Dielectric Water-Blocking Strength Members Rip Cords

SPECIFICATIONS	
Fiber Count	Available in 2-fiber up to 12-fiber
Standards Compliance	Telcordia® GR-20-CORE RDUP PE-90 Designation 523 RoHS-compliant
Telcordia is a reaistered trademark of Ericsson Inc.	

ENVIRONMENTAL SPECIFICATIONS	
Operation/Storage	-40°C to +70°C
Installation	-30°C to +70°C

PART	NUME	BER KEY						
5	2	-	_	-	х	х	0	У
1	2	3	4	5	6	7	8	9
Proc fam		Fiber co	ount (00	2-012)	Fiber type		ernal mator	Water block/ marking (1-8)

Contact Customer Service for availability of non-standard offerings.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

				Maximum Tensile Loading		Minimum E	Bend Radius
Part Number ¹	Fiber Count	Nominal Diameter in (mm)	Nominal Weight Ibs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)
52001xx0y	1	0.33 (8.4)	42 (62)	300 (1,335)	100 (445)	6.6 (168)	3.3 (8.4)
52002xx0y	2	0.33 (8.4)	42 (62)	300 (1,335)	100 (445)	6.6 (168)	3.3 (8.4)
52004xx0y	4	0.33 (8.4)	42 (62)	300 (1,335)	100 (445)	6.6 (168)	3.3 (8.4)
52006xx0y	6	0.33 (8.4)	42 (62)	300 (1,335)	100 (445)	6.6 (168)	3.3 (8.4)
52008xx0y	8	0.33 (8.4)	42 (62)	300 (1,335)	100 (445)	6.6 (168)	3.3 (8.4)
52012xx0y	12	0.33 (8.4)	42 (62)	300 (1,335)	100 (445)	6.6 (168)	3.3 (8.4)

FIBER TYPES:	SINGLE MODE							MULTIMO	DE		
	Reduced	Zero	TeraFlex [®] Bend Resistant					TeraGain®	TeraFlex Bend Resistant Laser Optimized 50/125		
	Water Peak	Water Peak	G.657.A1	G.657.A2	G.657.B3	NZDS	LEAF	62.5/125	10G/150	10G/300	10G/550
¹ Replace "xx" with:	33	23	К3	J3	L3	83	S3	6G	MG	NG	PG
See "Optical Fiber Specific	ations" in the "Teo	chnical Informatic	on" section for de	tailed fiber type :	specifications.						

WATER BLOCK AND JACKET PRINT CODES							
	Dry	core	Dry core spec				
	Feet	Meters	Feet	Meters			
¹ Replace "y" with:	1	2	5	6			

Rev 7/15

Ed 13.0

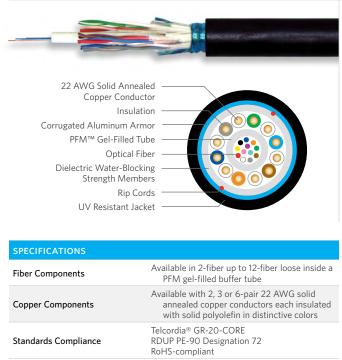
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Buried Drop Composite, Aluminum Armor

Series 72



Telcordia is a registered trademark of Ericsson Inc.

PART	NUMB	ER KE	Y					
7	2	_	_	_	х	х	2, 3, or 6	У
1	2	3	4	5	6	7	8	9
Proo fan			er coi 02-01		Fiber type	Internal designator	Copper pairs	Water block/ marking (1-8)

PRODUCT DESCRIPTION

Series 72 is the underground cable solution for the situation that requires both optical fiber and twisted pairs. This product is available in fiber counts up to 12 with 2-pair, 3-pair or 6-pair 22 AWG copper pairs. Series 72 serves the need for communications or power over copper pairs with optical fiber available for the future. The core is constructed with a single tube containing up to 12 optical fibers and up to 6 copper pairs. A corrugated aluminum armor and longitudinal strength elements are applied over the core tube and encased within a black, weather resistant jacket. Rip cords are included under the armor for ease of access to the core.

BENEFITS

and hardware

Improves flexibility

Reduces cable prep

and faster clean up

-40°C to +70°C

-30°C to +70°C

Reduces the possibility of

and installation time

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Multiple Network applications

Non-sticky gel allows for easier

splitting pairs during installation

Conforms to standard practices

APPLICATIONS

- · Fiber to the premise
- Broadband network
- · Buried, underground

FEATURES

- Composite fiber/copper design
- Round shape
- Corrugated aluminum armor
- Dry (SAP) core standard
- PFM[™] gel

Instal

 Insulation of tip conductors are marked with a stripe of the mating ring's insulation color

ENVIRONMENTAL SPECIFICATIONS

Operation/Storage	
Installation	

Contact Customer Service for availability of non-standard offerings.

ELECTRICAL SPECIFICATIONS

	Conductor DC Resistance @ 68°F		Minimum Dielectric Strength
Conductor AWG (mm)	Maximum Individual Ohms/mile (Ohms/km)	Resistance Unbalance Maximum Individual Pair %	DC Potential Volts Conductor to Conductor
22 (0.64)	91.0 (56.4)	5.0	7,200

PART NUMBERS AND PHYSICAL CHARACTERISTICS

			Nominal		Maximum Ter	nsile Loading	Minimum I	Bend Radius	Copper Max.	Copper Max.	
Part Number ¹	Copper Pair Count	Fiber Count	Diameter in (mm)	Nominal Weight lbs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)	Amperage A	Voltage vDC	Package
72002xx2y	2	2	0.39 (9.8)	50 (74)	300 (1,335)	100 (445)	7.8 (198)	3.9 (99)	1.0	150	Reel
72004xx2y	2	4	0.39 (9.8)	50 (74)	300 (1,335)	100 (445)	7.8 (198)	3.9 (99)	1.0	150	Reel
72006xx2y	2	6	0.39 (9.8)	50 (74)	300 (1,335)	100 (445)	7.8 (198)	3.9 (99)	1.0	150	Reel
72002xx3y	3	2	0.40 (10.1)	52 (77)	300 (1,335)	100 (445)	8.0 (202)	4.0 (101)	1.0	150	Reel
72004xx3y	3	4	0.40 (10.1)	52 (77)	300 (1,335)	100 (445)	8.0 (202)	4.0 (101)	1.0	150	Reel
72006xx3y	3	6	0.40 (10.1)	52 (77)	300 (1,335)	100 (445)	8.0 (202)	4.0 (101)	1.0	150	Reel
72002xx6y	6	2	0.44 (11.1)	56 (83)	300 (1,335)	100 (445)	8.8 (222)	4.4 (111)	1.0	150	Reel
72004xx6y	6	4	0.44 (11.1)	56 (83)	300 (1,335)	100 (445)	8.8 (222)	4.4 (111)	1.0	150	Reel
72006xx6y	6	6	0.44 (11.1)	56 (83)	300 (1,335)	100 (445)	8.8 (222)	4.4 (111)	1.0	150	Reel
72012xx6y	6	12	0.44 (11.1)	56 (83)	300 (1,335)	100 (445)	8.8 (222)	4.4 (111)	1.0	150	Reel

FIBER TYPES:	SINGLE MODE						MULTIMODE				
	Reduced	Zero	TeraFlex [®] Bend Resistant				TeraGain®	TeraFlex Bend Resistant Laser Optimized 50/125			
		Water Peak	G.657.A1	G.657.A2	G.657.B3	NZDS	LEAF	62.5/125	10G/150	10G/300	10G/550
¹ Replace "xx" with:	33	23	К3	J3	L3	83	S3	6G	MG	NG	PG

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

WATER BLOCK AND JACKET PRINT CODES							
	Dry	core	Dry core speci				
	Feet	Meters	Feet	Meters			
¹ Replace "y" with:	1	2	5	6			



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R-46

Buried Drop Composite, Steel Armor



Series 72S is the underground cable solution for the situation that requires both optical fiber and twisted pairs. This product is available in fiber counts up to 12 with 2-pair, 3-pair or 6-pair 22 AWG copper pairs. Series 72S serves the need for communications or low voltage power over copper pairs with optical fiber available for the future. The core is constructed with a single tube containing up to 12 optical fibers and up to 6 copper pairs. A corrugated steel armor and longitudinal strength elements are applied over the core tube and encased within a black, weather resistant jacket. Rip cords are included under the armor for ease of access to the core.

APPLICATIONS

- Fiber to the premise
- Broadband network
- Buried, underground

FEATURES

- Composite fiber/copper design
- Round shape
- Corrugated steel armor
- Dry (SAP) core standard
- PFM™ gel
- Insulation of tip conductors are marked with a stripe of the mating ring's insulation color

- Multiple Network applications
- Conforms to standard practices and hardware
- Improves compressive strength and rodent protection
- Reduces cable prep and installation time

BENEFITS

- Non-sticky gel allows for easier and faster clean up
- Reduces the possibility of splitting pairs during installation

22 AWG Solid Annealed Copper Conductor	
Insulation	
Corrugated Steel Armor	
PFM™ Gel-Filled Tube	
Optical Fiber	
Dielectric Water-Blocking Strength Members	
Rip Cords	
UV Resistant Jacket	

SPECIFICATIONS	
Fiber Components	Available in 2-fiber up to 12-fiber loose inside a PFM gel-filled buffer tube
Copper Components	Available with 2, 3 or 6-pair 22 AWG solid annealed copper conductors each insulated with solid polyolefin in distinctive colors
Standards Compliance	Telcordia® GR-20-CORE RDUP PE-90 Designation 72S RoHS-compliant
Telcordia is a registered trademark of Ericsson Inc.	

ENVIRONMENTAL SPECIFICATIONS							
Operation/Storage	-40°C to +70°C						
Installation	-30°C to +70°C						

PART NUMBER KEY

7	2	_	_	_	х	х	2, 3, or 6	S
1	2	3	4	5	6	7	8	9
Proo fan		Fiber c	ount (00	2-012)	Fiber type	Internal designator	Copper pairs	Steel armor

Contact Customer Service for availability of non-standard offerings.

ELECTRIC	CAL SPECIFICATIONS			
	Conductor AWG (mm)	Conductor DC Resistance @ 68°F Maximum Individual Ohms/mile (Ohms/km)	Resistance Unbalance Maximum Individual Pair %	Minimum Dielectric Strength DC Potential Volts Conductor to Conductor
	22 (0.64)	91.0 (56.4)	5.0	7,200

PART NUMBERS AND PHYSICAL CHARACTERISTICS

			Nominal		Maximum Ter	nsile Loading	Minimum Bend Radius		s Copper Max. Copper M		ix.	
Part Number ¹	Copper Pair Count	Fiber Count	Diameter in (mm)	Nominal Weight lbs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)	Amperage A	Voltage vDC	Package	
72002xx2S	2	2	0.39 (9.8)	67 (100)	300 (1,335)	100 (445)	7.8 (198)	3.9 (99)	1.0	150	Reel	
72004xx2S	2	4	0.39 (9.8)	67 (100)	300 (1,335)	100 (445)	7.8 (198)	3.9 (99)	1.0	150	Reel	
72006xx2S	2	6	0.39 (9.8)	67 (100)	300 (1,335)	100 (445)	7.8 (198)	3.9 (99)	1.0	150	Reel	
72002xx3S	3	2	0.40 (10.1)	71 (106)	300 (1,335)	100 (445)	8.0 (202)	4.0 (101)	1.0	150	Reel	
72004xx3S	3	4	0.40 (10.1)	71 (106)	300 (1,335)	100 (445)	8.0 (202)	4.0 (101)	1.0	150	Reel	
72006xx3S	3	6	0.40 (10.1)	71 (106)	300 (1,335)	100 (445)	8.0 (202)	4.0 (101)	1.0	150	Reel	
72002xx6S	6	2	0.44 (11.1)	75 (111)	300 (1,335)	100 (445)	8.8 (222)	4.4 (111)	1.0	150	Reel	
72004xx6S	6	4	0.44 (11.1)	75 (111)	300 (1,335)	100 (445)	8.8 (222)	4.4 (111)	1.0	150	Reel	
72006xx6S	6	6	0.44 (11.1)	75 (111)	300 (1,335)	100 (445)	8.8 (222)	4.4 (111)	1.0	150	Reel	
72012xx6S	6	12	0.44 (11.1)	75 (111)	300 (1,335)	100 (445)	8.8 (222)	4.4 (111)	1.0	150	Reel	

FIBER TYPES:	SINGLE MODE							MULTIMODE	
	Reduced	Zero	TeraF	lex® Bend Res	istant			TeraGain®	TeraFlex
	Water Peak	Water Peak	G.657.A1	G.657.A2	G.657.B3	NZDS	LEAF	62.5/125	10G/1
¹ Replace "xx" with:	33	23	K3	J3	L3	83	S3	6G	MG
See "Optical Fiber Specific	ations" in the "Teo	chnical Informatic	on" section for de	tailed fiber type	specifications.				

MULTIMODE								
TeraGain®	TeraFlex Bend R	esistant Laser Op	timized 50/125					
62.5/125	10G/150	10G/300	10G/550					
6G	MG	NG	PG					

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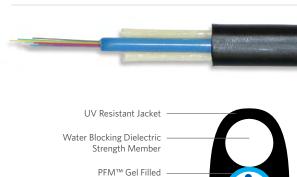
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B-47

Series 6U

OSP CABLE



Optical Fiber Water Blocking Thread

Loose Buffer Tube

Water Blocking Dielectric Strength Member

SPECIFICATIONS	
Fiber Count	Available with up to 12-fiber inside a PFM gel-filled loose buffer tube
Strength Members	Water-blocking dielectric strength members placed parallel to single loose tube, one on each side, to provide necessary longitudinal strength
Jacket	Black, UV resistant jacket
Maximum Span Length at 1% Sag ft (m)	Light Loading: 330 (101) Medium Loading: 225 (69) Heavy Loading: 150 (46)
Standards Compliance	Telcordia [®] GR-20-CORE RDUP PE-90 Designation 570Q RoHS-compliant

Telcordia is a registered trademark of Ericsson Inc.

PART	пимв	ER KE	Y					
6	U	_	_	_	х	1	R, B or 0	G, B or 1
1	2	3	4	5	6	7	8	9
Proo fan			oer cou 02-01		Fiber type	Internal designator	Package type	Internal designator

Contact Customer Service for availability of non-standard offerings. See "Optical Fiber Cable" options in the "Technical Information" section for flooding and jacket marking options.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

PRODUCT DESCRIPTION

Universal Drop FTTP offers the most flexible solution for fiber to the premise applications. This all dielectric cable requires no grounding or bonding. The small profile reduces cost and increases both ease of use and access to small conduits. This durable design incorporates two dielectric rigid rods for tensile and crush protection, bracketing a single enhanced loose tube containing up to 12 optical fibers and PFM[™] gel. A black, weather resistant jacket completes the cable construction.

APPLICATIONS

- Drop cables
- Broadband network
- Local loop
- Fiber to the premise

FEATURES

- Available with up to 12-fiber
- Universal design
- Dielectric
- PFM gel
- Dielectric Rods
- Multiple fiber types including TeraFlex[®] bend resistant

r	•	Offers the maximum bandwidth
		for FTTP business, etc.

Aerial or direct bury

BENEFITS

- Eliminates bonding and grounding
- Non-sticky gel reduces installation time and labor cost
- Excellent crush resistance
- Multiple network applications

ENVIRONMENTAL SPECIFICATIONS				
Operation/Storage	-40°C to +70°C			
Installation	-30°C to +70°C			

		Nominal D	Dimensions		Maximum Tensile Lo		Minor Dimension		Approx. Shipping
Part Number ¹	Fiber Count	Minor in (mm)	Major in (mm)	Nominal Weight lbs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Bend Radius in (mm)	Package	Weight Ibs (kg)
6U001x101	1	0.17 (4.3)	0.32 (8.0)	24 (36)	300 (1,335)	90 (405)	3.15 (76)	Master reel	-
6U002x101	2	0.17 (4.3)	0.32 (8.0)	24 (36)	300 (1,335)	90 (405)	3.15 (76)	Master reel	-
6U002x1RG	2	0.17 (4.3)	0.32 (8.0)	24 (36)	300 (1,335)	90 (405)	3.15 (76)	2,500' Reel	132 (60)
6U002x1BB	2	0.17 (4.3)	0.32 (8.0)	24 (36)	300 (1,335)	90 (405)	3.15 (76)	1,000' Reel-in-a-Box	52 (24)
6U004x1RG	4	0.17 (4.3)	0.32 (8.0)	24 (36)	300 (1,335)	90 (405)	3.15 (76)	2,500' Reel	132 (60)
6U004x1BB	4	0.17 (4.3)	0.32 (8.0)	24 (36)	300 (1,335)	90 (405)	3.15 (76)	1,000' Reel-in-a-Box	52 (24)
6U006x1RG	6	0.17 (4.3)	0.32 (8.0)	24 (36)	300 (1,335)	90 (405)	3.15 (76)	2,500' Reel	132 (60)
6U006x1BB	6	0.17 (4.3)	0.32 (8.0)	24 (36)	300 (1,335)	90 (405)	3.15 (76)	1,000' Reel-in-a-Box	52 (24)
6U012x1RG	12	0.17 (4.3)	0.32 (8.0)	24 (36)	300 (1,335)	90 (405)	3.15 (76)	2,500' Reel	132 (60)

FIBER TYPES:	SINGLE MODE						MULTIMODE				
	Reduced Zero		TeraFlex [®] Bend Resistant					TeraGain®	TeraFlex Bend Resistant Laser Optimized 50/125		
	Water Peak		G.657.A1	G.657.A2	G.657.B3	NZDS	LEAF	62.5/125	10G/150	10G/300	10G/550
¹ Replace "x" with:	3	2	К	J	L	8	S	6	Μ	Ν	Р

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.



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PRODUCT DESCRIPTION

Toneable Drop FTTP offers the most flexible solution for fiber to the premise applications. The toneable unit allows for easy location after installation. The small profile reduces cost and increases both ease of use and access to small conduits. This product is the low cost solution to the network's last 100 meters. The durable design incorporates two dielectric rigid rods for tensile and crush protection, bracketing a single enhanced loose tube containing up to 12 optical fibers and PFM[™] gel.

APPLICATIONS

- Drop cables
- Broadband network
- Local loop
- Fiber to the premise

FEATURES

•	Universal	design

· Available with up to 12-fiber

- Toneable element
- PFM gel

Rev 7/15

Ed 13.0

- Dielectric rods
- Dry (SAP) core standard
- Multiple fiber types including TeraFlex[®] bend resistant

Б	ENFEITS
	Maximum bandwidth
•	Aerial or direct bury
•	Ease of location
•	Non-sticky gel reduces installation time and labor cost
•	Excellent crush resistance
•	Reduces cable prep and installation time
	Multiple network applications

UV Resistant Jacket	
Water Blocking Dielectric Strength Member	
PFM™ Gel Filled Loose Buffer Tube	
Optical Fiber	
Water Blocking Thread	
Water Blocking Dielectric Strength Member	
24 AWG Copper Wire	

SPECIFICATIONS	
Fiber Count	Available with up to 12-fiber inside a PFM gel-filled loose buffer tube
Strength Members	Water-blocking dielectric strength members placed parallel to single loose tube, to provide necessary longitudinal strength
Toneable Element	24 AWG copper wire encased in jacket
Jacket	Black, UV resistant jacket
Maximum Span Length at 1% Sag ft (m)	Light Loading: 330 (101) Medium Loading: 225 (69) Heavy Loading: 150 (46)
Standards Compliance	Telcordia® GR-20-CORE RDUP PE-90 Designation 571Q RoHS-compliant
Telcordia is a registered trademark of Ericsson Inc.	

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6

Fiber

type

Contact Customer Service for availability of non-standard offerings. See "Optical Fiber Cable" options

4

Fiber count

(002-012)

5

in the "Technical Information" section for flooding and jacket marking options.

3

Product

family

1

7

Internal

designator

R, B or 0

8

Package

type

G, B or 1

9

Internal

designator

	FART NOW	
	6	Т
	1	2

ENVIRONMENTAL SPECIFICATIONS					
Operation/Storage	-40°C to +70°C				
Installation	-30°C to +70°C				

PART NUMBERS AND PHYSICAL CHARACTERISTICS

		Nominal D	Dimensions	_	Maximum Tensile Loading		Minor Dimension		Approx. Shipping	
Part Number ¹	Fiber Count	Minor in (mm)	Major in (mm)	Nominal Weight lbs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Bend Radius in (mm)	Package	Weight Ibs (kg)	
6T001x101	1	0.17 (4.3)	0.35 (9.0)	27 (40)	300 (1,335)	90 (405)	3.15 (76)	Master reel	-	
6T002x101	2	0.17 (4.3)	0.35 (9.0)	27 (40)	300 (1,335)	90 (405)	3.15 (76)	Master reel	-	
6T002x1RG	2	0.17 (4.3)	0.35 (9.0)	27 (40)	300 (1,335)	90 (405)	3.15 (76)	2,500' Reel	121 (55)	
6T002x1BB	2	0.17 (4.3)	0.35 (9.0)	27 (40)	300 (1,335)	90 (405)	3.15 (76)	1,000' Reel-in-a-Box	47 (17)	
6T004x1RG	4	0.17 (4.3)	0.35 (9.0)	27 (40)	300 (1,335)	90 (405)	3.15 (76)	2,500' Reel	121 (55)	
6T004x1BB	4	0.17 (4.3)	0.35 (9.0)	27 (40)	300 (1,335)	90 (405)	3.15 (76)	1,000' Reel-in-a-Box	47 (17)	
6T006x1RG	6	0.17 (4.3)	0.35 (9.0)	27 (40)	300 (1,335)	90 (405)	3.15 (76)	2,500' Reel	121 (55)	
6T006x1BB	6	0.17 (4.3)	0.35 (9.0)	27 (40)	300 (1,335)	90 (405)	3.15 (76)	1,000' Reel-in-a-Box	47 (17)	
6T012x1RG	12	0.17 (4.3)	0.35 (9.0)	27 (40)	300 (1,335)	90 (405)	3.15 (76)	2,500' Reel	121 (55)	
6T012x1BB	12	0.17 (4.3)	0.35 (9.0)	27 (40)	300 (1,335)	90 (405)	3.15 (76)	1,000' Reel-in-a-Box	47 (17)	

FIBER TYPES: SINGLE MODE							MULTIMODE				
	Reduced	Zero	TeraFlex [®] Bend Resistant					TeraGain®	TeraFlex Bend F	Resistant Laser Op	otimized 50/125
	Water Peak		G.657.A1	G.657.A2	G.657.B3	NZDS	LEAF	62.5/125	10G/150 10G/300 10G/550		
¹ Replace "x" with:	3	2	К	J	L	8	S	6	Μ	Ν	Р

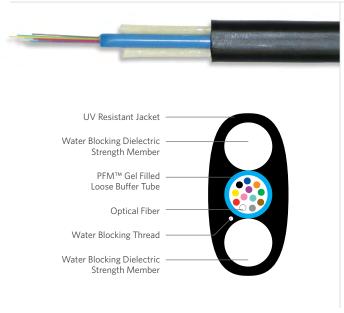
See "Optical Fiber Specifications	s" in the "Technical Ir	formation" section fo	or detailed fiber type specifications.

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Series 6S



SPECIFICATIONS	
Fiber Count	Available with up to 12-fiber inside a PFM gel-filled loose buffer tube
Strength Members	Water-blocking dielectric strength members placed parallel to single loose tube, one on each side, to provide necessary longitudinal strength
Jacket	Black, UV resistant PVC jacket
Maximum Span Length at 1% Sag ft (m)	Light Loading: 330 (101) Medium Loading: 225 (69) Heavy Loading: 150 (46)
Performance Compliance	Telcordia® GR-20-CORE, Issue 3 RDUP PE-90 RoHS-compliant
Telcordia is a registered trademark of Ericsson Inc.	

PART	NUMB	ER KE	Y						
6	S	_	_	_	х	1	R, B or O	G, B or 1	
1	2	3	4	5	6	7	8	9	
Proc farr			oer cou 02-01		Fiber type	Internal designator	Package type	Internal designator	

Contact Customer Service for availability of non-standard offerings. See "Optical Fiber Cable" options in the "Technical Information" section for flooding and jacket marking options.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

PRODUCT DESCRIPTION

Universal Flex FTTP offers the most complete solution for the fiber to the premise application. This compact cable is RoHS-compliant (no heavy metals) and universal in application. The cable is designed for use in duct, aerial and direct bury environments. The single tube contains PFM^{TM} gel which provides ease of clean up. This product is available with TeraFlex® optical fiber which complies with ITU G.652D and provides increased bend performance.

Universal Flex FTTP is offered as a bulk reel with a standard length of 2,500 ft or in a 1,000 ft Reel-in-a-Box (weather resistant package weighing only 39 lbs). QuickCount[®] print is standard on the Reel-in-a-Box and reduces scrap by identifying the length of cable remaining in the box.

APPLICATIONS

- Drop cables
- Broadband network
- Local loop
- Fiber to the premise

FEATURES

• Offers the maximum bandwidth · Available with up to 12-fiber for FTTP business, etc. Multiple fiber types including Multiple network applications TeraFlex bend resistant • Aerial, direct bury and conduit Universal design Non-sticky gel reduces installation PFM gel time and labor cost Sunlight resistant Longer cable life • Reel-in-a-Box package option QuickCount countdown footage marking feature reduces scrap

BENEFITS

• Easy to carry and store

ENVIRONMENTAL SPECIFICATIONS								
Operation/Storage	-40°C to +70°C							
Installation	-10°C to +70°C							

PART NUMBER	AND PHIS	CAL CHARAC	TERISTICS							
		Nominal D	Dimensions		Maximum Te	nsile Loading	Minor Dimension		Approx. Shipping	
Part Number ¹	Fiber Count	Minor in (mm)	Major in (mm)	Nominal Weight Ibs/kft (kg/km)			Bend Radius in (mm)	Package	Weight Ibs (kg)	
6S001x101	1	0.17 (4.3)	0.32 (8.0)	31 (46)	300 (1,335)	90 (405)	3.19 (81)	Master reel	-	
6S002x101	2	0.17 (4.3)	0.32 (8.0)	31 (46)	300 (1,335)	90 (405)	3.19 (81)	Master reel	-	
6S002x1RG	2	0.17 (4.3)	0.32 (8.0)	31 (46)	300 (1,335)	90 (405)	3.19 (81)	2,500' Reel	109 (49)	
6S002x1BB	2	0.17 (4.3)	0.32 (8.0)	31 (46)	300 (1,335)	90 (405)	3.19 (81)	1,000' Reel-in-a-Box	42 (19)	
6S004x1RG	4	0.17 (4.3)	0.32 (8.0)	31 (46)	300 (1,335)	90 (405)	3.19 (81)	2,500' Reel	109 (49)	
6S004x1BB	4	0.17 (4.3)	0.32 (8.0)	31 (46)	300 (1,335)	90 (405)	3.19 (81)	1,000' Reel-in-a-Box	42 (19)	
6S012x1RG	12	0.17 (4.3)	0.32 (8.0)	31 (46)	300 (1,335)	90 (405)	3.19 (81)	2,500' Reel	109 (49)	
6S012x1BB	12	0.17 (4.3)	0.32 (8.0)	31 (46)	300 (1,335)	90 (405)	3.19 (81)	1,000' Reel-in-a-Box	42 (19)	

FIBER TYPES:	SINGLE MC	DE						MULTIMO	DE		
	Reduced	Zero	TeraFlex [®] Bend Resistant				TeraGain®	TeraFlex Bend F	Resistant Laser Op	otimized 50/125	
	Water Peak	Water Peak	G.657.A1	G.657.A2	G.657.B3	NZDS	LEAF	leraGain® 62.5/125	10G/150	10G/300	10G/550
¹ Replace "x" with:	3	2	К	J	L	8	S	6	Μ	Ν	Р

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.



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PRODUCT DESCRIPTION

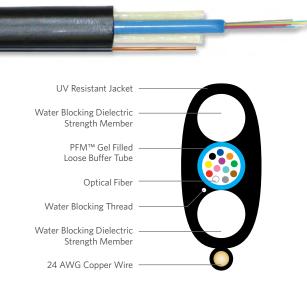
Toneable Flex FTTP offers the most complete solution for the fiber to the premise application. This compact cable is RoHS-compliant (no heavy metals) and universal in application. The cable is designed for use in duct, aerial and direct bury environments. Cable location is made simple with the toneable copper wire. The single tube contains PFM[™] gel, which provides ease of clean up. This product is standard with TeraFlex[®] optical fiber which complies with ITU G.652D and provides increased bend performance.

Toneable Flex FTTP is offered as a bulk reel with a standard length of 2,500 ft or in a 1,000 ft Reel-in-a-Box (weather resistant package weighing only 39 lbs). QuickCount[®] print is standard on the Reel-in-a-Box and reduces scrap by identifying the length of cable remaining in the box.

APPLICATIONS

- Drop cables
- Broadband network
- Local loop
- Fiber to the premise

FE	ATURES	BENEFITS						
•	Available with up to 12-fiber	•	Offers the maximum bandwidth for FTTP business, etc.					
•	Multiple fiber types including TeraFlex bend resistant	•	Multiple network applications					
•	Universal design	•	Aerial, direct bury and conduit					
•	PFM gel	•	Non-sticky gel reduces installation time and labor cost					
•	Reel-in-a-Box package option	•	QuickCount countdown footage marking feature reduces scrap					
		•	Easy to carry and store					
•	Toneable element	•	Ease of location					



SPECIFICATIONS						
Fiber Count	Available with up to 12-fiber inside a PFM gel-filled loose buffer tube					
Strength Members	Water-blocking dielectric strength members placed parallel to single loose tube, one on each side, to provide necessary longitudinal strength					
Toneable Element	24 AWG copper wire encased in a jacket					
Jacket	Black, UV resistant PVC jacket					
Maximum Span Length at 1% Sag ft (m)	Light Loading: 330 (101) Medium Loading: 225 (69) Heavy Loading: 150 (46)					
Performance Compliance	Telcordia® GR-20-CORE, Issue 3 RDUP PE-90 UL® 1666 RoHS-compliant					

Telcordia is a registered trademark of Ericsson Inc. UL is a registered trademark of UL LLC.

ENVIRONMENTAL SPECIFICATIONS	
Operation/Storage	-40°C to +70°C
Installation	-10°C to +70°C

6 R 1 R, B or 0 G, B or 1 х 1 2 4 7 8 9 3 5 6 Product Fiber count Fiber Package Internal Internal family (002-012)type designator type designator Contact Customer Service for availability of non-standard offerings. See "Optical Fiber Cable" options in the "Technical Information" section for flooding and jacket marking options.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

		Nominal C	Dimensions		nal Weight Install Long Term				
Part Number ¹	Fiber Count	Minor in (mm)	Major in (mm)	Nominal Weight Ibs/kft (kg/km)			 Minor Dimension Bend Radius in (mm) 	Package	Approx. Shipping Weight Ibs (kg)
6R001x101	1	0.17 (4.3)	0.35 (9.0)	34 (51)	300 (1,335)	90 (405)	3.19 (81)	Master reel	-
6R002x101	2	0.17 (4.3)	0.35 (9.0)	34 (51)	300 (1,335)	90 (405)	3.19 (81)	Master reel	-
6R002x1RG	2	0.17 (4.3)	0.35 (9.0)	34 (51)	300 (1,335)	90 (405)	3.19 (81)	2,500' Reel	102 (46)
6R002x1BB	2	0.17 (4.3)	0.35 (9.0)	34 (51)	300 (1,335)	90 (405)	3.19 (81)	1,000' Reel-in-a-Box	39 (18)
6R004x1RG	4	0.17 (4.3)	0.35 (9.0)	34 (51)	300 (1,335)	90 (405)	3.19 (81)	2,500' Reel	102 (46)
6R004x1BB	4	0.17 (4.3)	0.35 (9.0)	34 (51)	300 (1,335)	90 (405)	3.19 (81)	1,000' Reel-in-a-Box	39 (18)
6R012x1RG	12	0.17 (4.3)	0.35 (9.0)	34 (51)	300 (1,335)	90 (405)	3.19 (81)	2,500' Reel	102 (46)
6R012x1BB	12	0.17 (4.3)	0.35 (9.0)	34 (51)	300 (1,335)	90 (405)	3.19 (81)	1,000' Reel-in-a-Box	39 (18)

PART NUMBER KEY

FIBER TYPES:	SINGLE MODE						
	Reduced	Zero Water Peak	TeraFlex [®] Bend Resistant				
			G.657.A1	G.657.A2	G.657.B3	NZDS	LEAF
¹ Replace "x" with:	3	2	К	J	L	8	S
G 110 11 1 511 G 111	0 11 0 1 1	1 . 11			10. 11		

MULTIMO	DE		
TeraGain®	TeraFlex Bend R	Resistant Laser Op	timized 50/125
62.5/125	10G/150	10G/300	10G/550
6	Μ	Ν	Р

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

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Universal FTTP Tight Buffered Indoor/Outdoor Drop

Series W7U



SPECIFICATIONS		
Maximum Span Length at 1% Sag ft (m)	Light Loading: 350 (101) Medium Loading: 275 (84) Heavy Loading: 150 (46)	
Standards Compliance	Telcordia® GR-20-CORE RoHS-compliant	
Telcordia is a registered trademark of Ericsson Inc.		

MACRO BENDING PERFORMANCE				
ITU G 657 A	TeraFlex SMF			
0.25 dB Max.	≤ 0.20 dB			
1.00 dB Max.	≤ 0.50 dB			
ITU G 657 A	TeraFlex SMF			
0.75 dB Max.	≤ 0.20 dB			
1.50 dB Max.	≤ 0.20 dB			
	0.25 dB Max. 1.00 dB Max. ITU G 657 A 0.75 dB Max.			

TeraFlex is an ITU G 657 A optical fiber that is completely compatible with ITU G 652 D optical fibers. TeraFlex exceeds the performance standards of ITU G 657 A as listed above.

PART NUMBER KEY W 7 0 0 1 or 2 U 0 х V 1 2 3 4 5 6 7 8 9 Product Fiber count Fiber Internal Water block/ Universal family (001 or 002) type designator marking (1-8) Contact Customer Service for availability of non-standard offerings.

PART NUMBERS AND PHYSICAL CHARACTERISTICS Nominal Dimensions Cable Tensile Load Cable Bend Radius Fiber Component Bend Radius Nominal Weight Part Fiber Maior Fiber Component Install Long Term Install Long Term Install Long Term Minor Number Count in (mm) in (mm) in (mm) lbs/kft (kg/km) lbs (N) lbs (N) in (mm) in (mm) in (mm) in (mm) W7001xU0y 0.17 (4.5) 0.32 (8.2) 0.11 (2.9) 29 (44) 300 (1,350) 90 (405) 3.6 (91) 1.8 (46) 2.2 (56) 1.1 (28) 1 W7002xU0y 2 0.17 (4.5) 0.32 (8.2) 0.11 (2.9) 29 (44) 300 (1,350) 90 (405) 3.6 (91) 1.8 (46) 2.2 (56) 1.1 (28)

WATER BLOCK AND JACKET PRINT CODES				
	Dry core		Dry core special	
	Feet	Meters	Feet	Meters
¹ Replace "y" with:	1	2	5	6

FIBER TYPES:	SINGLE MODE		
	TeraF	lex® Bend Res	istant
	G.657.A1	G.657.A2	G.657.B3
¹ Replace "x" with:	К	J	L

SUPERIOR

SSEX.

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.



 Indoor/outdoor design 	 Tight Buffered ca placed in a riser and is UL listed
Meets GR-20 specifications	 Industry accepted for OSP installati
Cable in a cable	 Eliminates splice
 TeraFlex[®] fiber in a flexible tight buffer cable design 	 Inner cable can b around corners a with no attenuati
ENVIRONMENTAL SPECIFICATIO	NS
Operation/Storage	-40°C to +70°C

ENVIRONMENTAL SPECIFICATIONS		
Operation/Storage	-40°C to +70°C	
Installation	-10°C to +70°C	

PRODUCT DESCRIPTION

Series W7U FTTP is the first indoor/outdoor drop cable that is durable enough for outdoor environments and flexible enough for tight bends within residences. The patented design utilizes a fully functional 2.9 mm OFNR rated tight buffer cable as the core of a GR-20 OSP rated FTTP small flat cable. The key benefit of this cable is that it can be installed from the pedestal to the indoor ONT (Optical Network Terminal) with no intermediate termination. Significant installation savings can be realized by avoiding splicing or termination on the outside or inside wall of the residence. Further savings are realized by using an indoor ONT that does not require an electrician to install. This completely dry, flat drop cable is available in universal and toneable designs that are suitable for aerial, direct bury or conduit installation. A water-blocking thread is used to prevent water penetration.

APPLICATIONS

- Drop cables for aerial, direct bury or conduit installations
- Fiber to the premise for single family residences .

FEATURES Universal design

Universal design	• Aerial, direct bury or conduit, all dielectric
Dielectric rods	 Excellent crush resistance
Indoor/outdoor design	 Tight Buffered cable can be placed in a riser environment and is UL listed
Meets GR-20 specifications	 Industry accepted standard for OSP installations
Cable in a cable	• Eliminates splice at premises wall
TeraFlex [®] fiber in a flexible tight buffer cable design	 Inner cable can be wrapped around corners and stapled with no attenuation issues

BENEFITS

Operation/Storage -40°C to +/0°C	
Installation -10°C to +70°C	

B-52

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Toneable FTTP Tight Buffered Indoor/Outdoor Drop

PRODUCT DESCRIPTION

Series W7T FTTP is the first indoor/outdoor drop cable that is durable enough for outdoor environments and flexible enough for tight bends within residences. The patented design utilizes a fully functional 2.9 mm OFNR rated tight buffer cable as the core of a GR-20 OSP rated FTTP small flat cable. The key benefit of this cable is that it can be installed from the pedestal to the indoor ONT (Optical Network Terminal) with no intermediate termination. Significant installation savings can be realized by avoiding splicing or termination on the outside or inside wall of the residence. Further savings are realized by using an indoor ONT that does not require an electrician to install. This completely dry, flat drop cable is available in universal and toneable designs that are suitable for aerial, direct bury or conduit installation. A water-blocking thread is used to prevent water penetration.

APPLICATIONS

- Drop cables for aerial, direct bury or conduit installations
- · Fiber to the premise for single family residences

FEATURES

- Toneable design
- Dielectric rods
- Indoor/outdoor design
- Meets GR-20 specifications
- Cable in a cable
- TeraFlex[®] fiber in a flexible tight buffer cable design

Operatio

Installation

for toneable location Excellent crush resistance

Copper element allows

BENEFITS

- Tight Buffered cable can be placed in a riser environment and is UL listed
- Industry accepted standard for OSP installations
- Eliminates splice at premises wall
- Inner cable can be wrapped around corners and stapled with no attenuation issues

ONMENTAL SPECIFICATIONS	
on/Storage	-40°C to +70°C
tion	-10°C to +70°C

UV Resistant Jacket Water-Blocking Dielectric Strength Member OFNR Jacket Aramid Yarns 900 µm Tight Buffered **Optical Fiber** Water-Blocking Thread Water-Blocking Dielectric Strength Member Toneable Copper Element

SPECIFICATIONS	
Maximum Span Length at 1% Sag ft (m)	Light Loading: 350 (101) Medium Loading: 275 (84) Heavy Loading: 150 (46)
Standards Compliance	Telcordia® GR-20-CORE RoHS-compliant
Telcordia is a registered trademark of Ericsson Inc.	

MACRO BENDING PERFORMANCE		
10 Turns on 15 mm Radius Mandrel	ITU G 657 A	TeraFlex SMF
Macro bending loss @ 1550 nm	0.25 dB Max.	≤ 0.20 dB
Macro bending loss @ 1625 nm	1.00 dB Max.	≤ 0.50 dB
1 Turn on 10 mm Radius Mandrel	ITU G 657 A	TeraFlex SMF
Macro bending loss @ 1550 nm	0.75 dB Max.	≤ 0.20 dB
Macro bending loss @ 1625 nm	1.50 dB Max.	≤ 0.20 dB
T 51 1 1711 0 (57 A 11 1 (11 1) 1)	1	

TeraFlex is an ITU G 657 A optical fiber that is completely compatible with ITU G 652 D optical fibers. TeraFlex exceeds the performance standards of ITU G 657 A as listed above.

PART	Νυλ	IBER	KEY					
W	7	0	0	1 or 2	х	1	0	У
1	2	3	4	5	6	7	8	9
Proc fam			ber co)1 or	ount 002)	Fiber type	Toneable	Internal designator	Water block/ marking (1-8)

Contact Customer Service for availability of non-standard offerings

PART NUMB	PART NUMBERS AND PHYSICAL CHARACTERISTICS										
Nominal Dimensions				Cable Ten	Cable Tensile Load		Cable Bend Radius		Fiber Component Bend Radius		
Part Number ¹	Fiber Count	Minor in (mm)	Major in (mm)	Fiber Component in (mm)	Nominal Weight lbs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)	Install in (mm)	Long Term in (mm)
W7001x10y	1	0.17 (4.5)	0.40 (10.2)	0.11 (2.9)	31 (47)	300 (1,350)	90 (405)	3.6 (91)	1.8 (46)	2.2 (56)	1.1 (28)
W7002x10y	2	0.17 (4.5)	0.40 (10.2)	0.11 (2.9)	31 (47)	300 (1,350)	90 (405)	3.6 (91)	1.8 (46)	2.2 (56)	1.1 (28)

WATER BLOCK AND JACKET PRINT CODES								
	Dry	core	Dry core	e special				
	Feet	Meters	Feet	Meters				
¹ Replace "y" with:	1	2	5	6				
FIBER TYPES:	SIN	SINGLE MODE						
		TeraFlex [®] Bend Resistant						
	G.6	57.A1	G.657.A	2 G.6	57.B3			
¹ Replace "x" with:		К	J		L			

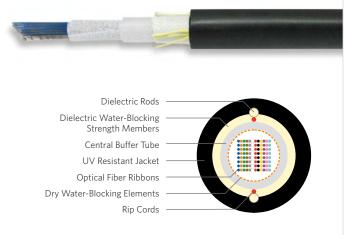
See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

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Series R1D



SPECIFICATIONS	
Fiber Count	Available in 12-fiber up to 432-fiber
Standards Compliance	Telcordia [®] GR-20-CORE RDUP PE-90 Designation R1D

Telcordia is a registered trademark of Ericsson Inc.

ENVIRONMENTAL SPECIFICATIONS	
Operation/Storage	-40°C to +70°C
Installation	-30°C to +70°C

PART NUMBER KEY

R	1	_	_	_	х	D	0	У
1	2	3	4	5	6	7	8	9
Product family Fiber		Fiber c	ount (01	.2-432)	Fiber type		rnal nator	Water block/ marking (1-8)

Contact Customer Service for availability of non-standard offerings.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

PRODUCT DESCRIPTION

Dri-Lite[®] Ribbon Cable is a totally gel-free cable. The cable is designed for Outside Plant (OSP) application, specifically lashed aerial and underground duct applications. Our industry leading optical ribbons are manufactured with high dimensional precision and low planarity, which equates to low losses during mass fusion splicing. The Dri-Lite Ribbon cable features optical ribbons inside a gel-free tube which contains dry water-blocking elements. The core tube contains up to eighteen 12-fiber or 24-fiber ribbons. Each ribbon unit is discretely identified and captured in an easy peel matrix for ease of ribbon breakout and management. The core tube is wrapped with a water-blocking tape. Longitudinal strength elements are applied over the core tube and encased within a black jacket. A rip cord is included under the jacket for easy access to the core tube.

APPLICATIONS

- Lashed aerial
- Underground duct
- Broadband network

FEATURES

- Gel-free water-blocking
 technology
- Available with up to 432-fiber
- Multiple fiber types available
- Highly flexible tube
- Meets or exceeds Telcordia[®] and RDUP specifications
- Small outer diameter
- Industry leading planarity

Reduces preparation time and labor cost

High fiber density

BENEFITS

- Multiple network applications
- Easier handling and reduced loss
- Industry approved
- Up to 432 optical fibers in less than a 1 inch nominal diameter
- Excellent mass splicing results

Maximum Tensile L		nsile Loading	oading Minimum				
Part Number ¹	Fiber Count	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)
R1012xD0y	12	0.48 (12.2)	70 (104)	600 (2,700)	200 (890)	9.6 (244)	4.8 (122)
R1024xD0y	24	0.48 (12.2)	70 (104)	600 (2,700)	200 (890)	9.6 (244)	4.8 (122)
R1048xD0y	48	0.48 (12.2)	70 (104)	600 (2,700)	200 (890)	9.6 (244)	4.8 (122)
R1072xD0y	72	0.56 (14.2)	90 (134)	600 (2,700)	200 (890)	11.2 (284)	5.6 (142)
R1096xD0y	96	0.66 (16.8)	116 (172)	600 (2,700)	200 (890)	13.2 (336)	6.6 (168)
R1144xD0y	144	0.66 (16.8)	119 (177)	600 (2,700)	200 (890)	13.2 (336)	6.6 (168)
R1216xD0y	216	0.74 (18.8)	135 (201)	600 (2,700)	200 (890)	14.8 (376)	7.4 (188)
R1288xD0y	288	0.78 (19.8)	173 (258)	600 (2,700)	200 (890)	15.6 (396)	7.8 (198)
R1360xD0y	360	0.78 (19.8)	173 (258)	600 (2,700)	200 (890)	15.6 (396)	7.8 (198)
R1432xD0y	432	0.78 (19.8)	173 (258)	600 (2,700)	200 (890)	15.6 (396)	7.8 (198)

FIBER TYPES:	SINGLE MO	HYBRID				
	Reduced Water Peak	Zero Water Peak	TeraFlex® Bend Resistant G.657.A1	NZDS	IFAF	Hvbrid
¹ Replace "x" with:	3	2	K	8	S	Н

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

WATER BLOCK AND JACKET PRINT CODES						
	Dry	core	Dry core specia			
	Feet	Meters	Feet	Meters		
¹ Replace "y" with:	1	2	5	6		



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Dri-Lite[®] Ribbon Single Armor

Series R2D

PRODUCT DESCRIPTION

Dri-Lite® Ribbon Single Armor Cable is a totally gel-free cable designed for Outside Plant (OSP) application, specifically direct buried, lashed aerial and underground duct applications. Our industry leading optical ribbons are manufactured with high dimensional precision and low planarity, which equates to low losses during mass fusion splicing. The cable features optical ribbons inside a gel-free tube which contains dry water-blocking elements. The core tube contains up to eighteen 12-fiber or 24-fiber ribbons. Each ribbon unit is discretely identified and captured in an easy peel matrix for ease of ribbon breakout and management. The core tube is wrapped with a water-blocking tape. A corrugated steel armor and longitudinal strength elements are applied over the core tube and encased within a black jacket. Rip cords are included under the armor for easy access to the core tube.

APPLICATIONS

- Direct bury
- Lashed aerial
- Underground duct
- Broadband network

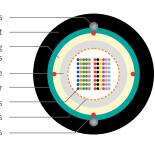
FEATURES

- Gel-free water-blocking technology
- Available with up to 432-fiber
- Multiple fiber types available
- Highly flexible tube
- Meets or exceeds Telcordia[®] and RDUP specifications
- Small outer diameter
- Industry leading planarity

BENEFITS	

- Reduces preparation time and labor cost
- High fiber density
- Multiple network applications
- Easier handling and reduced loss
- Industry approved
- Up to 432 optical fibers in less than a 1 inch nominal diameter
- Excellent mass splicing results

Steel Rods	
UV Resistant Jacket	
Dielectric Water-Blocking Strength Members	
Central Buffer Tube	
Corrugated Steel Armor	
Optical Fiber Ribbons	
Dry Water-Blocking Elements	
Dry Water blocking Elements	
Rip Cords	



ECIFICATIONS	
er Count	

Fiber Count	Available in 12-fiber up to 432-fiber
Standards Compliance	Telcordia [®] GR-20-CORE RDUP PE-90 Designation R2D

Telcordia is a registered trademark of Ericsson Inc.

ENVIRONMENTAL SPECIFI	CATIONS
Operation/Storage	-40°C to +70°C
Installation	-30°C to +70°C
PART NUMBER KEY	

FARI	NONIL							
R	2	_	_	_	х	D	S	У
1	2	3	4	5	6	7	8	9
	duct nily	Fiber c	ount (01	.2-432)	Fiber type	Inte desig		Water block/ marking (1-8)

Contact Customer Service for availability of non-standard offerings.

				Maximum Te	nsile Loading	Minimum Bend Radius		
Part Number ¹	Fiber Count	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)	
R2012xDSy	12	0.51 (13.0)	110 (164)	600 (2,700)	200 (890)	10.2 (260)	5.1 (130)	
R2024xDSy	24	0.51 (13.0)	110 (164)	600 (2,700)	200 (890)	10.2 (260)	5.1 (130)	
R2048xDSy	48	0.59 (15.0)	132 (197)	600 (2,700)	200 (890)	11.8 (300)	5.9 (150)	
R2072xDSy	72	0.59 (15.0)	134 (199)	600 (2,700)	200 (890)	11.8 (300)	5.9 (150)	
R2096xDSy	96	0.69 (17.4)	165 (251)	600 (2,700)	200 (890)	13.8 (348)	6.9 (174)	
R2144xDSy	144	0.69 (17.4)	168 (251)	600 (2,700)	200 (890)	13.8 (348)	6.9 (174)	
R2192xDSy	192	0.77 (19.6)	197 (292)	600 (2,700)	200 (890)	15.4 (392)	7.7 (196)	
R2216xDSy	216	0.77 (19.6)	198 (295)	600 (2,700)	200 (890)	15.4 (392)	7.7 (196)	
R2288xDSy	288	0.84 (21.3)	226 (337)	600 (2,700)	200 (890)	16.8 (437)	8.4 (219)	
R2360xDSy	360	0.84 (21.3)	226 (337)	600 (2,700)	200 (890)	16.8 (437)	8.4 (219)	
R2432xDSy	432	0.84 (21.3)	226 (337)	600 (2,700)	200 (890)	16.8 (437)	8.4 (219)	

FIBER TYPES:	SINGLE MO	HYBRID				
	Reduced Water Peak	Zero Water Peak	TeraFlex® Bend Resistant G.657.A1	NZDS	IFAF	Hvbrid
¹ Replace "x" with:	3	2	K	8	S	Н

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

WATER BLOCK AN	ND JAC	KET PRIN	IT CODE	S
	Dry	core	Dry cor	e special
	Feet	Meters	Feet	Meters
¹ Replace "y" with:	1	2	5	6

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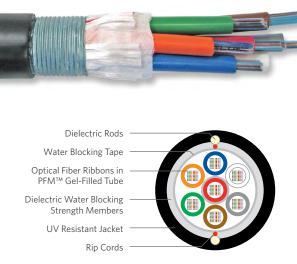
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Stranded Tube Ribbon Single Armor

Series S2



	Rip Cords	
CIFICATI	ONS	

Fiber Count	Available in 360-fiber up to 1,008-fiber
Standards Compliance	Telcordia® GR-20-CORE RDUP PE-90 Designation S2 RoHS-compliant
Telcordia is a realistered trademark of Fricsson Inc. Cor	ning is a registered trademark of Corning Incorporated.

SPECIFICATIONS -40°C to +70°C -30°C to +70°C

motuna					00 0		0	
PART	NUMBI	ER KEY						
S	2	_	_	_	х	1	0	У
1	2	3	4	5	6	7	8	9

Water block/ Product Fiber count Fiber Internal family (360-1,008) type designator marking (1-8)

Contact Customer Service for availability of non-standard offerings.

Maximum Tensile Loading Minimum Bend Radius Nominal Weight Nominal Diameter Install Install Long Term Long Term Part Number¹ Fiber Count in (mm) lbs/kft (kg/km) lbs (N) lbs (N) in (mm) in (mm) S2360x10y 360 1.27 (32.2) 536 (797) 600 (2,700) 180 (800) 25.4 (644) 12.7 (322) S2432x10y 432 1.27 (32.2) 536 (797) 600 (2,700) 180 (800) 25.4 (644) 12.7 (322) S2576x10y 576 1.27 (32.2) 536 (797) 600 (2,700) 180 (800) 25.4 (644) 12.7 (322) S2720x10y 720 1.27 (32.2) 536 (797) 600 (2,700) 180 (800) 25.4 (644) 12.7 (322) S2864x10y 864 1.27 (32.2) 536 (797) 600 (2,700) 180 (800) 25.4 (644) 12.7 (322) 1.008 1 27 600 (2,700) 180 (800) 25.4 (644) 12.7 (322) S2A08x10y

FIBER TYPES:	SINGLE MODE						
	Reduced Water Peak	Zero Water Peak	TeraFlex® Bend Resistant G.657.A1	NZDS	LEAF	Corning® 28E+	Hybrid
¹ Replace "x" with:	3	2	К	8	S	R	Н

WATER BLOCK AND JACKET PRINT CODES Dry core special Dry core Feet Meters Feet Meters ¹Replace "y" with: 5 6

PRODUCT DESCRIPTION

APPLICATIONS

Local loop

Ribbon fiber

FEATURES

.

. .

.

.

Direct bury

Broadband network

Trunk, distribution and feeder cables

• Available with up to 1,008-fiber

Multiple fiber types available

Multiple stranded tubes

Corrugated steel armor

Stranded Tube Ribbon Single Armor Cable is designed for Outside Plant (OSP) applications specifically direct bury installations. Our industry leading optical fiber ribbons are manufactured with high dimensional precision and low planarity which equates to low losses during mass fusion splicing. The stranded tube design features optical fibers ribbons placed inside gel-filled tubes. Each tube contains up to 12 discretely identified, 12-fiber ribbons for maximum design load capacity of 1,008

optical fibers. The core is helically wrapped with water-blocking strength

BENEFITS

High fiber density

Individual tube access

Multiple network applications

 Compressive strength, rodent protection and ease of location

 Saves labor cost by offering mass fusion spl

members. A corrugated steel armor is applied over the stranded core.

Rigid steel rods encased in a outer jacket completes the construction.

Rip cords are included under the armor for ease of entry.

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OSP CABLE

S Tel

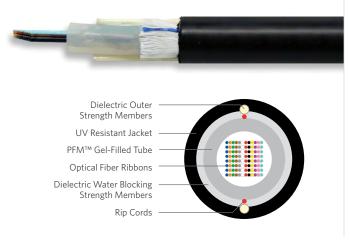
SPF

icing	
0	ENVIRONMENTAL
	Operation/Storage
	Installation

FIBER TYPES:	SINGLE MC	DE				
	Reduced Water Peak	Zero Water Peak	TeraFlex® Bend Resistant G.657.A1	NZDS	LEAF	Corning® 28E+
¹ Replace "x" with:	3	2	К	8	S	R

(32.2)	536 (797)				
TeraFlex® nd Resistant G.657.A1	NZDS	LEAF	Corning 28E+		
К	8	S	R		
section for deta	iled fiber	type spec	ifications.		

Series R1



SPECIFICATIONS

Fiber Count	Available in 12-fiber up to 86-fiber
Standards Compliance	Telcordia® GR-20-CORE RDUP PE-90 Designation SLT-R RoHS-compliant

Telcordia is a registered trademark of Ericsson Inc.

	ENVIRONMENTAL SPECIFICATIONS				
Operation/Storage -40°C to +	70°C				
Installation -30°C to +	70°C				

PART NUMBER KEY

R	1	_	_	_	х	1	0	У
1	2	3	4	5	6	7	8	9
Prod farr		Fiber count (012-864)		Fiber type	Inte desig	rnal nator	Water block/ marking (1-8)	

Contact Customer Service for availability of non-standard offerings.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

PRODUCT DESCRIPTION

Single Tube Ribbon Cable is designed for Outside Plant (OSP) applications, specifically lashed aerial and underground duct installations. Our industry leading optical ribbons are manufactured with high dimensional precision and low planarity, which equates to low losses during mass fusion spicing. The Single Tube Ribbon Cable features optical ribbons inside a single PFM[™] gel-filled tube. The core tube includes up to eighteen 12-fiber or 24-fiber ribbons. Each 12-fiber ribbon unit is discretely identified and captured in an easy peel matrix for ease of ribbon breakout and management. The core tube is wrapped with a water-blocking tape. Longitudinal strength elements are applied over the core tube and encased within a black jacket. A rip cord is included under the jacket for easy access to the core tube.

APPLICATIONS

- Lashed aerial, underground duct .
- Broadband network
- Local loop
- Trunk, distribution and feeder cables

FEATURES

- Available with up to 864-fiber
- Multiple fiber types available
- .
- Dielectric strength members
- · Highly flexible tube
- Ribbon fiber
- Meets or exceeds Bellcore . and RDUP specifications
- PFM gel

- BENEFITS
- High fiber density
- Multiple network applications
- Dielectric design eliminates grounding issues
- Easy handling and easy tube access
- . Saves labor cost by offering mass fusion splicing
- Industry approved
- Non-sticky gel allows for easier and faster clean up

				Maximum Te	nsile Loading	Minimum E	Bend Radius
Part Number ¹	Fiber Count	Nominal Diameter in (mm)	Nominal Weight Ibs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)
R1012x10y	12	0.47 (12.0)	71 (106)	600 (2,700)	200 (890)	9.4 (239)	4.7 (119)
R1048x10y	48	0.47 (11.9)	71 (106)	600 (2,700)	200 (890)	9.4 (239)	4.7 (119)
R1072x10y	72	0.57 (14.5)	96 (143)	600 (2,700)	200 (890)	11.4 (290)	5.7 (145)
R1096x10y	96	0.57 (14.5)	96 (143)	600 (2,700)	200 (890)	11.4 (290)	5.7 (145)
R1144x10y	144	0.63 (15.9)	120 (178)	600 (2,700)	200 (890)	12.6 (320)	6.3 (160)
R1216x10y	216	0.67 (17.0)	138 (206)	600 (2,700)	200 (890)	13.4 (340)	6.7 (170)
R1288x10y	288	0.79 (20.0)	180 (267)	600 (2,700)	200 (890)	15.8 (401)	7.9 (201)
R1432x10y	432	0.79 (20.0)	188 (280)	600 (2,700)	200 (890)	15.8 (401)	7.9 (201)
R1576x101	576	0.98 (25.0)	311 (463)	600 (2,700)	200 (890)	19.6 (500)	9.8 (250)
R1864x101	864	0.98 (25.0)	311 (463)	600 (2,700)	200 (890)	19.6 (500)	9.8 (250)

FIBER TYPES:	SINGLE MC	DE				HYBRID
	Reduced Water Peak	Zero Water Peak	TeraFlex® Bend Resistant G.657.A1	NZDS	LEAF	Hybrid
¹ Replace "x" with:	3	2	К	8	S	Н

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

WATER BLOCK AND JACKET PRINT CODES					
	Dry	core	Dry cor	e special	
	Feet	Meters	Feet	Meters	
¹ Replace "y" with:	1	2	5	6	



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OSP CABLE

Single Tube Ribbon Single Armor

Series R2

PRODUCT DESCRIPTION

Single Tube Ribbon Single Armor Cable is designed for Outside Plant (OSP) applications, specifically lashed aerial and underground duct installations. Our industry leading optical ribbons are manufactured with high dimensional precision and low planarity, which equates to low losses during mass fusion spicing. The Single Tube Ribbon Single Armor cable features optical ribbons inside a single PFM[™] gel-filled tube. The core tube includes up to eighteen 12-fiber or 24-fiber ribbons. Each 12-fiber ribbon unit is discretely identified and captured in an easy peel matrix for ease of ribbon breakout and management. The core tube is wrapped with a water-blocking tape. A corrugated steel armor and longitudinal strength elements are applied over the core tube and encased within a black jacket. Rip cords are included under the armor for easy access to the core tube.

APPLICATIONS

- Direct bury
- Broadband network
- Local loop
- Trunk, distribution and feeder cables

FEATURES	BENEFITS
• Available with up to 432-fiber	 High fiber density
 Multiple fiber types available 	 Multiple network applications
Metallic outer strength members	Metallic design offers easy location
 Highly flexible tube 	Easy handling and easy tube access
Corrugated steel armor	 Compressive strength, rodent protection and ease of location
Ribbon fiber	 Saves labor cost by offering mass fusion splicing
 Meets or exceeds Bellcore and RDUP specifications 	Industry approved
 PFM gel 	 Non-sticky gel allows for easier and faster clean up

Rigid Steel Outer Strength Members	
UV Resistant Jacket	
Corrugated Steel Armor	
PFM™ Gel-Filled Tube	
Optical Fiber Ribbons	
Dielectric Water Blocking Strength Members	
Rip Cords	

SPECIFICATIONS	
Fiber Count	Available in 12-fiber up to 432-fiber
Standards Compliance	Telcordia® GR-20-CORE RDUP PE-90 Designation SLT-R RoHS-compliant
Telcordia is a registered trademark of Ericsson Inc.	

ENVIRONMENTAL SPECIFICATIONS			
Operation/Storage	-40°C to +70°C		
Installation	-30°C to +70°C		

PART	NUME	ER KEY						
R	2	-	_	_	Х	1	S	У
1	2	3	4	5	6	7	8	9
Proc farr		Fiber co	ount (01	2-432)	Fiber type	Inte desig		Water block/ marking (1-8)

Contact Customer Service for availability of non-standard offerings.

				Maximum Te	nsile Loading	Minimum B	end Radius
Part Number ¹	Fiber Count	Nominal Diameter in (mm)	Nominal Weight lbs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)
R2012x1Sy	12	0.51 (13.0)	118 (175)	600 (2,700)	200 (890)	10.2 (259)	5.1 (130)
R2024x1Sy	24	0.51 (13.0)	118 (175)	600 (2,700)	200 (890)	10.2 (259)	5.1 (130)
R2036x1Sy	36	0.51 (13.0)	118 (175)	600 (2,700)	200 (890)	10.2 (259)	5.1 (130)
R2048x1Sy	48	0.51 (13.0)	118 (175)	600 (2,700)	200 (890)	10.2 (259)	5.1 (130)
R2072x1Sy	72	0.58 (15.0)	150 (223)	600 (2,700)	200 (890)	11.6 (295)	5.8 (147)
R2096x1Sy	96	0.58 (15.0)	150 (223)	600 (2,700)	200 (890)	11.6 (295)	5.8 (147)
R2144x1Sy	144	0.66 (17.0)	187 (279)	600 (2,700)	200 (890)	13.2 (335)	6.0 (152)
R2192x1Sy	192	0.66 (17.0)	195 (290)	600 (2,700)	200 (890)	13.6 (345)	6.8 (173)
R2216x1Sy	216	0.66 (17.0)	195 (290)	600 (2,700)	200 (890)	13.6 (345)	6.8 (173)
R2288x1Sy	288	0.84 (21.0)	256 (381)	600 (2,700)	200 (890)	16.8 (420)	8.4 (210)
R2360x1Sy	360	0.84 (21.0)	256 (381)	600 (2,700)	200 (890)	16.8 (420)	8.4 (210)
R2432x1Sy	432	0.84 (21.0)	256 (381)	600 (2,700)	200 (890)	16.8 (420)	8.4 (210)

FIBER TYPES:	SINGLE MO	HYBRID				
	Reduced Water Peak	Zero Water Peak	TeraFlex® Bend Resistant G.657.A1	NZDS	LEAF	Hvbrid
¹ Replace "x" with:	3	2	К	8	S	Н

See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

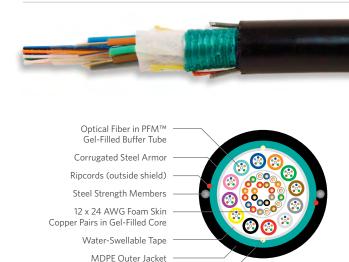
WATER BLOCK AND JACKET PRINT CODES						
	Dry	core	Dry cor	e special		
	Feet	Meters	Feet	Meters		
¹ Replace "y" with:	1	2	5	6		

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Composite Right of Way

Series MR



PRODUCT DESCRIPTION

The Composite Right of Way Series MR cable is designed to meet the network requirements for both twisted copper pair and optical fiber. The small 0.65 inch (16.6 mm) profile of this design easily fits into a 1-inch conduit. The cable operates within a temperature range of -40 $^{\circ}\text{C}$ to +70 $^{\circ}\text{C},$ provides a maximum tensile strength of 600 lbs, and incorporates 12, 24 AWG twisted copper pairs and up to 72 strands of optical fiber. The core, 12 pairs of 24 AWG gel-filled copper, is surrounded by 12 gel-filled tubes each containing 6 optical fibers. The core is waterblocked with super absorbent polymers and then encased in a steel armor. Two steel rods for anti-buckling are included in the outer jacket.

APPLICATIONS

Small conduits

FEATURES

- Fiber and twisted copper pair
- Single unit construction
 - Lower installation costs High capacity
- · Available with up to 72-fiber Small nominal diameter
 - Suitable for small (1 inch) conduit applications

· Offers the maximum bandwidth for FTTP business, etc.

BENEFITS

COMPOSITE	SPECIF	ICATION

Construction	Copper pairs at center of cable surrounded by stranded loose tubes of optical fiber				
Water Block	Super absorbent polymer tape				
Shield	Corrugated steel armor				
Strength Members	Two steel strength members embedded in jacket				
Jacket	MDPE				
Standards Compliance	Telcordia® GR-20-CORE ICEA S-84-608-2007				

Telcordia is a registered trademark of Ericsson Inc.

ENVIRONMENTAL	SPECI	FICA	NTIO	N٩

Operation/Storage	-40°C to +70°C
Installation	-30°C to +70°C

PART NUMBERS AND PHYSICAL CHARACTERISTICS

							Maximum	Tensile Load
I	Part Number	Fiber Count	Fiber Type	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Install Bend Radius in (mm)	Install Ibs (N)	Long Term Ibs (N)
	MR0723011	72	RWP SMF	0.65 (16.6)	160 (237)	13 (332)	600 (2,700)	200 (890)

Part number listed are RWP single mode optical fiber only. Other fiber types are available. See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

OSP COPPER SPECIFICATIONS 12-pair 24 AWG (0.51 mm) solid Conductor annealed copper Core Filling Thixotropic gel

OPTICAL FIBER SPECIFICATIONS

Ripcords (inside shield)

Construction	Stranded loose tube design features optical fibers placed inside a PFM™ gel-filled tube
Fiber Count	Up to 72 optical fibers



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Composite Category 5e Drop

Series 5F

PRODUCT DESCRIPTION

Series 5F combines the broadband performance of CAT 5e with the unlimited capacity of optical fiber. A BBDNe CAT 5e Outside Plant (OSP) cable and a Series 513 optical fiber cable are overjacketed into one cable in order to offer flexibility and ease of installation.

APPLICATIONS

- Drop cables
- Broadband network
- Fiber to the premise

FEATURES

- Fiber and CAT 5e
- Overjacket design
- Single unit construction
- Available with 1-fiber up to 12-fiber
- PFM[™] gel

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- Offers the maximum bandwidth for FTTP business, etc.
- Ease of use

BENEFITS

- Lower installation costs
- High capacity
- Non-sticky gel reduces installation time and labor cost

COMPOSITE SPECIFICATIONS	
Single Jacket Design	Copper and fiber independent cables are jacketed into one cable in order to offer flexibility and ease of installation
Standards Compliance	Copper and fiber cables meet applicable Telcordia® and TIA standards
Telcordia is a registered trademark of Ericsson Inc.	

ENVIRONMENTAL SPECIFICATIONS	
Operation/Storage	-40°C to +70°C
Installation	-30°C to +70°C

OSP COPPER SPECIFICATIONS Conductor CAT 5e 4-pair 24 AWG solid annealed copper Core Filling Thixotropic gel Shield Coated smooth aluminum tape Water Block Super absorbent polymer

Aluminum Tape Shield

Polyolefin Insulation

PFM™ Gel-Filled Tube

Dielectric Water-Blocking Strength Members Rip Cords

Optical Fiber

Fully Filled, Water-Repellent Core

24 AWG Copper Conductor

Sunlight and Weather Resistant

Outer Jacket with Web Separator

Inner Jacket

OPTICAL FIBER SPECIFICATIONS	
Construction	Series 513 single loose tube design with optical fibers placed inside a PFM gel-filled tube
Fiber Count	Up to 12 optical fibers
Strength Members	Core is helically wrapped with dielectric water-blocking strength members
Water Block	Super absorbent polymer

PART NUMBERS AND PHYSICAL CHARACTERISTICS								
						Maximum	Tensile Load	Standard
Part Number	Fiber Count	Fiber Type	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Bend Radius in (mm)	Install Ibs (N)	Long Term Ibs (N)	Quantity ft (m)
11-003-30	4	RWP SMF	0.63 (16) x 0.43 (10.9)	100 (148.8)	5.5 (139.7)	300 (136)	100 (45)	5,000 (1,524)

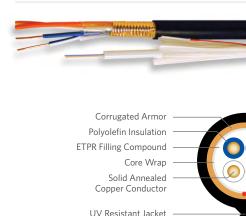
Part number listed are RWP single mode optical fiber only. Other fiber types are available. See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.





Composite Drop Web

Series 5W



with Web Separator PFM™ Gel-Filled Tube **Optical Fiber** Dielectric Water-Blocking Strength Members

Rip Cords

BSW OSP COPPER SPECIFICATIONS	
Conductor	Solid annealed copper
Insulation	Solid polyolefin
Core Wrap	Non-hygroscopic
Filling Compound	80°C ETPR compound for water- blocking protection
Shield	Corrugated armor

OPTICAL FIBER SPECIFICATIONS

Construction	Series 513 single loose tube design features optical fibers placed inside a PFM gel-filled tube
Fiber Count	Up to 12 optical fibers
Strength Members	Core is helically wrapped with dielectric water-blocking strength members

PART NUMBERS AND PHYSICAL CHARACTERISTICS

PRODUCT DESCRIPTION

Series 5W Composite Drop Cables combine fiber and copper technologies in a web design. The composite design provides a cost benefit compared to installing separate fiber and copper cables. The independent Series 513 optical fiber cable and the BSW Outside Plant (OSP) copper cable are combined in a single jacket design utilizing a web separator. This lightweight design is easy to access since the cables are easily separated at the web. In addition, each independent cable also contains a rip cord.

APPLICATIONS

- Network power and FTTP
- Drop cables

FEATURES

- Independent fiber and copper cables combined in a web design
- Web design
- Combined transport technologies in one cable
- Optical/electrical technology
- Multiple fiber types available
- PFM[™] gel

- BENEFITS Reduces cost of cable and labor
- Easy separation of technologies
- Cost-effective installation
- Ideal for multiple projects, voice, . video, data and powering
- Multiple applications
- Non-sticky gel reduces installation time and labor cost

COMPOSITE SPECIFICATIONS	
Single Jacket Design	Copper and fiber jackets joined by a web separator that can be split to direct the cables to separate locations
Standards Compliance	Copper and fiber cables meet applicable Telcordia®, RDUP and ICEA specifications RoHS-compliant
Telcordia is a registered trademark of Fricsson Inc	

rdia is a registered trademark of Ericsson Inc

ENVIRONMENTAL SPECIFICATIONS	
Operation/Storage	-40°C to +70°C
Installation	-30°C to +70°C

					Nominal Diameter		
Part Number	Copper Pair Count x AWG	Fiber Count	Fiber Type	Copper Component in (mm)	Fiber Component in (mm)	Approx. Weight lbs/kft (kg/km)	Package
5W002302Q	2 x 19	2	RWP SMF	0.31 (7.9)	0.26 (6.7)	131 (195)	8,000' Reel
71-202-12	5 x 19	2	RWP SMF	0.36 (9.1)	0.26 (6.7)	179 (266)	8,000' Reel
5W002301Q	2 x 22	2	RWP SMF	0.27 (6.9)	0.26 (6.7)	114 (170)	8,000' Reel
5W002303Q	5 x 22	2	RWP SMF	0.32 (8.1)	0.26 (6.7)	136 (202)	8,000' Reel
5W004301Q	6 x 22	4	RWP SMF	0.36 (9.1)	0.26 (6.7)	149 (222)	8,000' Reel

Part numbers listed are RWP single mode optical fiber only. Other fiber types are available. See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.



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OSP CABLE

Composite Drop Overjacket

PRODUCT DESCRIPTION

Series 71 OJ Composite Drop Cables combine fiber and copper technologies in an overjacket design. The independent Series 513 optical fiber cable and the BSW Outside Plant (OSP) copper cable are combined into one overjacketed cable. The composite design provides a cost benefit compared to installing separate fiber and copper cables.

This design allows great flexibility regarding the independent cables used in the overall construction. These independent cables are encased in an outer jacket with a rip cord included for ease of entry.

APPLICATIONS

- Network power and FTTP
- Drop cables

FEATURES

- Independent fiber and copper cables combined in a overjacket design
- Overjacket design
- Combined transport technologies in one cable
- Various combinations and multiple fiber types available
- PFM[™] gel

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- Lightweight, flexible construction
- Easy separation of technologies
- Cost-effective installation
- Ideal for multiple projects
- Non-sticky gel reduces installation time and labor cost

COMPOSITE SPECIFICATIONS	
Single Jacket Design	Independent copper and fiber cables are encased in a outer jacket with a rip cord
Standards Compliance	Copper and fiber cables meet applicable Telcordia®, RDUP and ICEA specifications RoHS-compliant

Telcordia is a registered trademark of Ericsson Inc.

ENVIRONMENTAL SPECIFICATIONS	
Operation/Storage	-40°C to +70°C
Installation	-30°C to +70°C

PART NUMBERS AND PHYSICAL CHARACTERISTICS

cables are th a rip cord	Filling Compound	80°C ETPR compound for water- blocking protection
t applicable A	Shield	Corrugated armor
	OPTICAL FIBER SPECIFICATIONS	
	Construction	Series 513 single loose tube design features optical fibers placed inside a PFM gel-filled tube

UV Resistant Jacket

Corrugated Armor

ETPR Filling Compound

UV Resistant Overjacket

Dielectric Water-Blocking

Strength Members

PFM™ Gel-Filled Tube

UV Resistant Jacket

BSW OSP COPPER SPECIFICATIONS

Conductor Insulation

Core Wrap

Optical Fiber

Rip Cords

Solid annealed copper

Solid polyolefin

Non-hygroscopic

Polyolefin Insulation

Core Wrap

Solid Annealed Copper Conductor

Construction	a PFM gel-filled tube
Fiber Count	Up to 12 optical fibers
Strength Members	Core is helically wrapped with dielectri water-blocking strength members

				Nominal Diameter			
Part Number	Copper Pair Count x AWG	Fiber Count	Fiber Type	Copper Component in (mm)	Fiber Component in (mm)	Approx. Weight lbs/kft (kg/km)	Package
71-055-02	2 x 22	2	RWP SMF	0.27 (6.9)	0.26 (6.7)	114 (170)	8,000' Reel
71-402-02	5 x 22	2	RWP SMF	0.32 (8.1)	0.26 (6.7)	136 (202)	8,000' Reel

Part numbers listed are RWP single mode optical fiber only. Other fiber types are available. See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.





Series 5V



ANAW OSP COPPER SPECIFICATIONS		
Conductor	22 AWG solid annealed copper	
Insulation	Inner layer of foamed, natural polyolefin covered by an outer layer of solid, colored polyolefin	
Core Wrap	Non-hygroscopic	
Filling Compound	80°C ETPR compound for water- blocking protection	
Shield	Corrugated 8 mil aluminum tape covered by a corrugated bare 6 mil steel tape; both inner and outer surfaces of the tapes are flooded to provide a moisture barrier and inhibit corrosion	

OPTICAL FIBER SPECIFICATIONS	
Construction	Series 51 single loose tube design features optical fibers placed inside a PFM gel-filled tube
Fiber Count	Up to 8 optical fiber bundles, each containing up to 12-fiber within a color coded binder
Strength Members	Core is helically wrapped with dielectric water-blocking strength members

PART NUMBERS AND PHYSICAL CHARACTERISTICS

				Nominal Diameter			
Part Number	Copper Pair Count	Fiber Count	Fiber Type	Copper Component in (mm)	Fiber Component in (mm)	Approx. Weight lbs/kft (kg/km)	Package
5V0063061	6	6	RWP SMF	0.45 (11)	0.37 (9)	176 (262)	14,800' Reel
5V0063121	12	6	RWP SMF	0.56 (14)	0.37 (9)	234 (348)	14,800' Reel
5V0123121	12	12	RWP SMF	0.56 (14)	0.37 (9)	234 (348)	14,800' Reel
5V0183181	18	18	RWP SMF	0.61 (15)	0.37 (9)	285 (425)	14,800' Reel
5V0123251	25	12	RWP SMF	0.72 (18)	0.37 (9)	355 (528)	12,700' Reel
5V0243251	25	24	RWP SMF	0.72 (18)	0.37 (9)	355 (528)	12,700' Reel

Part numbers listed are RWP single mode optical fiber only. Other fiber types are available. See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

PRODUCT DESCRIPTION

Series 5V Cables are designed for Outside Plant (OSP) broadband applications. These cables combine copper and optical fiber technologies into one composite cable and are suitable for voice, video and data communications. The copper cable offers the option of providing network power to eliminate the cost of local powering. The wide range of copper and fiber counts make this cable ideal for most projects.

The construction of this product combines an ANAW OSP copper cable and a Series 51 optical fiber cable. These independent cables are simultaneously jacketed in a polyethylene outer jacket with a rip cord included for ease of entry. The web connects the cables and can be easily split to direct the cables to different locations.

APPLICATIONS

• Direct bury, conduit, lashed aerial

FEATURES Independent fiber and copper cables under one jacket

- Web design
- Optical/electrical technology
- Web design
- PFM[™] gel
- PFIVITING

Reduces labor cost

- Easy separation to different locations
- Ideal for voice, video and data
- Lower cost

BENEFITS

 Non-sticky gel reduces installation time and labor cost

COMPOSITE SPECIFICATIONS		
Single Jacket Design	Copper and fiber independent cables are simultaneously jacketed in a polyethylene outer jacket with a rip cord included for ease of entry Web connects the cables and can be easily split to direct the cables to different locations	
Standards Compliance	Copper and fiber cables meet applicable Telcordia [®] Specifications (GR-421- CORE, GR-20 Core)	
Telcordia is a registered trademark of Ericsson Inc.		

ENVIRONMENTAL SPECIFICATIONS		
Operation/Storage	-40°C to +70°C	
Installation	-30°C to +70°C	

Composite OSP Overjacket

PRODUCT DESCRIPTION

Series 70 OJ Cables are designed for Outside Plant (OSP) broadband applications. These cables combine copper and optical fiber technologies into one composite cable and are suitable for voice, video and data communications. The copper cable offers the option of providing network power to eliminate the cost of local powering. The wide range of copper and fiber counts make this cable ideal for most projects.

The construction of this product combines an ANAW OSP copper cable and a Series 51 optical fiber cable. These independent cables are encased in an outer jacket with a rip cord included for ease of use.

APPLICATIONS

• Direct bury, conduit, lashed aerial

FEATURES

- Independent fiber and copper
- cables under one jacket Overjacket design
- Easy separation to different locations

Reduces labor cost

BENEFITS

- Optical/Electrical Technology
- PFM[™] gel

- · Ideal for voice, video and data
- Non-sticky gel reduces installation time and labor cost

UV Resistant Jacket	
Corrugated Steel Tape	
Corrugated Aluminum Tape	
Solid Annealed Copper Conductor Polyolefin Insulation	
ETPR Filling Compound	
Core Wrap	
UV Resistant Overjacket	
UV Resistant Jacket	
PFM™ Gel-Filled Tube	
Optical Fiber	
Dielectric Water-Blocking Strength Members	
Rip Cords	

ANAW OSP COPPER SPECIFICATIONS		
Conductor	22 AWG solid annealed copper	
Insulation	Inner layer of foamed, natural polyolefin covered by an outer layer of solid, colored polyolefin	
Core Wrap	Non-hygroscopic	
Filling Compound	80°C ETPR compound provides water- blocking protection	
Shield	Corrugated 8 mil aluminum tape covered by a corrugated bare 6 mil steel tape; both inner and outer surfaces of the tapes are flooded to provide a moisture barrier and inhibit corrosion	

COMPOSITE SPECIFICATIONS	
Single Jacket Design	Copper and fiber independent cables are encased in an overjacket with a rip cord included for ease of use
Standards Compliance	Copper and fiber cables meet applicable Telcordia® Specifications (GR-421-CORE, GR-20 Core)
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ENVIRONMENTAL SPECIFICATIONS		
Operation/Storage	-40°C to +70°C	
Installation	-30°C to +70°C	

PART NUMBERS AND PHYSICAL CHARACTERISTIC

OPTICAL FIBER SPECIFICATIONS		
Construction	Series 51 single loose tube design features optical fibers placed inside a PFM gel-filled tube	
Fiber Count	Up to 8 optical fiber bundles, each containing up to 12-fiber within a color coded binder	
Strength Members	Core is helically wrapped with dielectric water-blocking strength members	

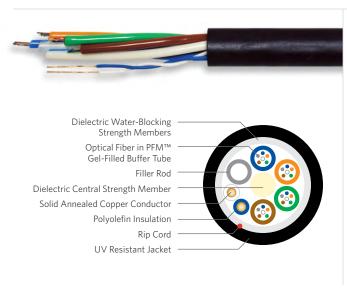
				Nominal	Diameter		
Part Number	Copper Pair Count	Fiber Count	Fiber Type	Copper Component in (mm)	Fiber Component in (mm)	Approx. Weight lbs/kft (kg/km)	Package
70-425-18	36	18	RWP SMF	0.76 (19)	0.37 (9)	443 (658)	11,100' Reel
70-425-36	36	36	RWP SMF	0.76 (19)	0.37 (9)	443 (658)	11,100' Reel
70-065-24	50	24	RWP SMF	0.88 (22)	0.37 (9)	546 (811)	8,900' Reel
70-065-48	50	48	RWP SMF	0.88 (22)	0.37 (9)	546 (811)	8,900' Reel
70-067-36	75	36	RWP SMF	1.00 (25)	0.37 (9)	724 (1,077)	6,000' Reel
70-067-72	75	72	RWP SMF	1.00 (25)	0.51 (13)	734 (1,092)	6,000' Reel
70-069-48	100	48	RWP SMF	1.15 (29)	0.37 (9)	895 (1,331)	6,000' Reel
70-069-72	100	72	RWP SMF	1.15 (29)	0.51 (13)	924 (1,374)	6,000' Reel
70-071-72	150	72	RWP SMF	1.34 (34)	0.51 (13)	1,260 (1,874)	3,000' Reel
70-071-96	150	96	RWP SMF	1.34 (34)	0.51 (13)	1,260 (1,874)	3,000' Reel
70-073-96	200	96	RWP SMF	1.50 (38)	0.51 (13)	1,615 (2,403)	2,500' Reel

Part numbers listed are RWP single mode optical fiber only. Other fiber types are available. See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

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800.551.8948 SuperiorEssex.com





SPECIFICATIONS Construction Loose tube, single jacket Copper and fiber cables meet applicable Standards Compliance Telcordia[®] and RDUP specifications RoHS-compliant

Telcordia is a registered trademark of Ericsson Inc.

	ductor Size VG (mm)	Conductor DC Resistance @ 68°F Maximum Individual Ohms/mile (Ohms/km)	Resistance Unbalance Maximum Individual Pair %	Dielectric Strength DC Potential - Volts Minimum Conductor to Conductor	Maximum Voltage	Maximum Amperage/Conductor		
22	2 (0.64)	91.0 (56.6)	5.0	5,000	150 vDC	1.0 A		

PRODUCT DESCRIPTION

FEATURES

in one jacket

• Wide range of copper

• Single mode, multimode

and hybrid designs

Copper twisted pairs

Various cable designs

· Special cable lengths are available upon request

with your application requirements

Please contact your Superior Essex sales professional

PFM[™] gel

NOTE

.

and fiber counts

product ideal for various projects.

• Fiber tubes and copper pairs

Series L Cables combine the attributes of optical fiber and copper technologies in a single cable. Designed for Outside Plant (OSP) applications, these cables improve network flexibility by addressing the need to transmit electrical power while providing virtually unlimited bandwidth to the subscriber. Labor savings are also realized making this

BENEFITS

• Reduced material cost and

· Sizes available for large

and small projects

Multiple applications

• Non-sticky gel reduces installation time and labor cost

significant installation savings

Multiple network applications

Capable of voice transmission,

cable location and site powering

PART NUMBERS AND PHYSICAL CHARACTERISTICS

		Nominal			Maximum 1	ensile Load			
Copper Pair Count	Fiber Count	Fiber Type	Optional Shield	Filling Compound	Length Marking	Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)
1	24	RWP SMF	-	Dry	Feet	0.43 (10.85)	58 (86)	600 (2,700)	200 (890)
2	24	RWP SMF	-	Flood	Meters	0.43 (10.85)	69 (103)	600 (2,700)	200 (890)
2	24	RWP SMF	Single Armor	Flood	Meters	0.48 (12.20)	107 (160)	600 (2,700)	200 (890)
		Pair CountFiber Count124224	Pair CountFiber CountFiber Type124RWP SMF224RWP SMF	Pair Count Fiber Count Fiber Type Shield 1 24 RWP SMF - 2 24 RWP SMF -	Pair Count Fiber Count Fiber Type Shield Compound 1 24 RWP SMF - Dry 2 24 RWP SMF - Flood	Pair Count Fiber Count Fiber Type Shield Compound Marking 1 24 RWP SMF - Dry Feet 2 24 RWP SMF - Flood Meters	Pair CountFiber CountFiber TypeShieldCompoundMarkingin (mm)124RWP SMF-DryFeet0.43 (10.85)224RWP SMF-FloodMeters0.43 (10.85)	Copper Pair CountFiber TopeOptional ShieldFilling CompoundLength MarkingDiameter in (mm)Approx. Weight Ibs/kft (kg/km)124RWP SMF-DryFeet0.43 (10.85)58 (86)224RWP SMF-FloodMeters0.43 (10.85)69 (103)	Copper Pair CountFiber TypeOptional ShieldFilling CompoundLength MarkingDiameter in (mm)Approx. Weight Ibs/kft (kg/km)Install







We've Got You Covered

- Standard Product Warranty (1 Year)
- PerformaLink[®] Warranty (25 Years)
 - Extended Premises cable warranty
 - Covers network's permanent link
 - 25 years with Legrand/Ortronics or 20 years with other approved connectivity manufacturers
- Campus Warranty (25 Years)
 - Covers Premises and OSP cables
 - 25 years with Legrand/Ortronics or 20 years with other approved connectivity manufacturers

For copies of our warranty terms and application forms, visit **ce.SuperiorEssex.com/Resources/Warranties-and-Policies**

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Yea

lea



25 Year

SEALPIC[®]

OSP CABLE



SPECIFICATIONS Conductor Solid annealed copper Solid polyolefin; color coded in accordance with Insulation industry standards Individual insulated conductors are twisted into pairs with **Twisted Pairs** varying lay lengths; specific color combinations provide pair identification ≤ 25-Pair Core Pairs are assembled into a cylindrical core Cables larger than 25-pair are assembled into units, > 25-Pair Core which are then used to assemble the core; units are identifiable using color-coded binders Core Wrap Non-hygroscopic, dielectric tape Corrugated, copolymer coated, 8 mil aluminum tape Shield applied longitudinally with an overlap Jacket Black, polyethylene Identifying information includes a telephone handset, cable code, pair count, AWG, date of manufacture Jacket Marking and sequential length markings at 2 foot intervals ANSI/ICEA S-85-625-2011 Standards Compliance Formerly PE-22 RoHS-compliant

PRODUCT DESCRIPTION

SEALPIC[®] Cables have an air core design and are suited for lashed aerial installations. If used in underground conduit, pressurization is recommended. SEALPIC cables are not recommended for direct burial installations.

APPLICATIONS

Lashed aerial

FEATURES

Pressurized underground conduit

BENEFITS

- Twisted into pairs with varying lay lengths
- Core wrap
- Black, polyethylene jacket
- Provides thermal protection

Minimizes crosstalk

 Provides a tough protective covering designed to withstand exposure to direct sunlight, atmospheric temperature changes and stresses expected

in standard installations

	Average Mutual		e Unbalance ir @ 1 kHz		e Unbalance und @ 1 kHz
Number of Pairs	Capacitance @ 1,000 Hz	Maximum Individual pF @ 1 kft (pF @ 1 km)	Maximum RMS pF @ 1 kft (pF @ 1 km)	Maximum Individual pF @ 1 kft (pF @ 1 km)	Maximum Average pF @ 1 kft (pF @ 1 km)
12 or less	83 ± 7 (52 ± 4)	80 (145)	-	800 (2,625)	-
Over 12	83 ± 4 (52 ± 2)	80 (145)	25 (45)	800 (2,625)	175 (574)

	Maximum Attenuat		Maximum Conductor Resistance @ 68°F (20°C)	DC Resistance Unbalance Maximum %		Dielectric Strength DC Potential - Volts	
Conductor Size AWG (mm)	Resistance @ 68°F (20°C) gigohm-mile (gigohm-km)	772 kHz @ 68°F (20°C) dB/kft (dB/km)	Ohms/sheath mile (km)	Average	Individual Pair	Conductor to Conductor	Conductor to Shield
19 (0.90)	1.0 (1.6)	3.3 (10.8)	45.0 (28.0)	1.5	5.0	5,000	10,000
22 (0.64)	1.0 (1.6)	4.7 (15.4)	91.0 (56.5)	1.5	5.0	4,000	10,000
24 (0.51)	1.0 (1.6)	5.9 (19.4)	144.0 (89.5)	1.5	5.0	3,000	10,000

*For cables with 12-pair or less, the maximum average attenuation may be increased by 10% over the values shown.

	Minimum Near End Crosstalk (NEXT) @ 772 kHz
PSWUNEXT Mean (dB)	47
PSWUNEXT Worst Pair (dB)	42

	Minimum	Far End Crosst @ 772 kHz	alk (FEXT)
Conductor Size (AWG)	19	22	24
PSELFEXT Mean (dB/kft)	51	49	49
PSELFEXT Worst Pair (dB/kft)	45	43	43



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OSP CABLE

FTTP

WIRELESS

INDEX

Part Number	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight Ibs/kft (kg/km)	Standard Length ft (m)	Approx. Shipping Weight Ibs (kg)	Reel Size F x T x D in
01-028-40	12	19 (0.90)	0.57 (15)	170 (255)	5,000 (1,524)	1,015 (460)	46 x 25 x 20
01-031-40	25	19 (0.90)	0.76 (19)	310 (460)	5,000 (1,524)	1,755 (795)	52 x 25 x 20
01-034-40	50	19 (0.90)	1.00 (25)	575 (855)	5,000 (1,524)	3,165 (1,435)	62 x 30 x 24
01-038-40	100	19 (0.90)	1.34 (34)	1,075 (1,600)	5,000 (1,524)	6,075 (2,755)	78 x 40 x 39
01-059-40	12	22 (0.64)	0.46 (12)	100 (150)	5,000 (1,524)	610 (275)	44 x 18 x 20
01-062-40	25	22 (0.64)	0.60 (15)	180 (270)	5,000 (1,524)	1,065 (485)	46 x 25 x 20
01-065-40	50	22 (0.64)	0.77 (20)	315 (470)	5,000 (1,524)	1,780 (805)	52 x 25 x 20
01-069-40	100	22 (0.64)	1.02 (26)	580 (865)	5,000 (1,524)	3,190 (1,445)	62 x 30 x 24
01-073-40	200	22 (0.64)	1.38 (35)	1,095 (1,630)	5,000 (1,524)	6,175 (2,800)	78 x 40 x 39
01-075-40	300	22 (0.64)	1.66 (42)	1,605 (2,390)	2,500 (762)	4,625 (2,100)	72 x 35 x 36
01-077-40	400	22 (0.64)	1.89 (48)	2,115 (3,150)	2,500 (762)	5,,985 (2,715)	78 x 40 x 39
01-094-40	12	24 (0.51)	0.41 (10)	75 (110)	5,000 (1,524)	440 (200)	36 x 18 x 14
01-097-40	25	24 (0.51)	0.51 (13)	125 (185)	5,000 (1,524)	735 (330)	44 x 18 x 20
01-100-40	50	24 (0.51)	0.64 (16)	215 (320)	5,000 (1,524)	1,240 (560)	46 x 25 x 20
01-104-40	100	24 (0.51)	0.83 (21)	385 (575)	5,000 (1,524)	2,170 (985)	58 x 25 x 20
01-108-40	200	24 (0.51)	1.12 (28)	715 (1,065)	5,000 (1,524)	4,190 (1,900)	72 x 35 x 36
01-110-40	300	24 (0.51)	1.33 (34)	1,040 (1,550)	5,000 (1,524)	5,900 (2,675)	78 x 40 x 39
01-112-40	400	24 (0.51)	1.52 (39)	1,360 (2,025)	2,500 (762)	4,015 (1,820)	72 x 35 x 36
01-116-40	600	24 (0.51)	1.82 (46)	2,005 (2,985)	2,500 (762)	5,710 (2,590)	78 x 40 x 39
01-118-40	900	24 (0.51)	2.19 (56)	2,960 (4,405)	1,250 (381)	4,315 (1,955)	72 x 35 x 36
01-120-40	1,200	24 (0.51)	2.49 (63)	3,895 (5,795)	1,250 (381)	5,570 (2,525)	78 x 40 x 39
01-121-40	1,500	24 (0.51)	2.79 (71)	4,845 (7,210)	1,250 (381)	6,855 (3,110)	84 x 40 x 42
01-124-40	1,800	24 (0.51)	3.04 (77)	5,785 (8,610)	1,000 (305)	6,485 (2,940)	78 x 40 x 39



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FOR EXTREME RISK ENVIRONMENTS

For extreme direct burial or lashed aerial installations, this cable is available with the +M feature. See the "Mechanical Protection (+M) for Extreme Risk Environments" in the "Technical Information" section for more information.

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SEALPIC®-84



SPECIFICATIONS	
Conductor	Solid annealed copper
Insulation	Solid polyolefin; color coded in accordance with industry standards
Twisted Pairs	Individual insulated conductors are twisted into pairs with varying lay lengths; specific color combinations provide pair identification
≤ 25-Pair Core	Pairs are assembled into a cylindrical core
> 25-Pair Core	Cables larger than 25-pair are assembled into units, which are then used to assemble the core; units are identifiable using color-coded binders
Core Wrap	Non-hygroscopic, dielectric tape
Shield	Corrugated, copolymer coated, 8 mil aluminum tape applied longitudinally with an overlap
Support Member	0.25 inch, 7-strand Extra High Strength (EHS) galvanized steel messenger serves as support member and integral part of the sheath; messenger is flooded
Jacket	Black, polyethylene
Jacket Marking	Identifying information includes a telephone handset, cable code, pair count, AWG, date of manufacture and sequential length markings at 2 foot intervals
Standards Compliance	ANSI/ICEA S-85-625-2011 Formerly PE-38 RoHS-compliant

PRODUCT DESCRIPTION

SEALPIC®-84 Cables have an air core design and are suited for aerial installations. The core and support member (messenger) lay parallel to each other forming a cross-sectional "figure 8." The support messenger is an integral part of the cable sheath, yet readily available for gripping, pulling and tensioning.

APPLICATIONS

Aerial

FEATURES

.

BENEFITS

- Twisted into pairs with varying Minimizes crosstalk
- Core wrap • Fully flooded steel

lay lengths

- support member
- Black, polyethylene jacket
- Provides thermal protection
- Inhibits corrosion
- Provides a tough, protective covering designed to withstand exposure to direct sunlight, atmospheric temperature changes and stresses expected in standard installations

ELECTRICAL SPECIFICATIONS

	Capacitance Unbalance Average Mutual Pair to Pair @ 1 kHz				e Unbalance und @ 1 kHz
Number of Pairs	Capacitance @ 1,000 Hz nF/mile (nF/km)	Maximum Individual pF @ 1 kft (pF @ 1 km)	Maximum RMS pF @ 1 kft (pF @ 1 km)	Maximum Individual pF @ 1 kft (pF @ 1 km)	Maximum Average pF @ 1 kft (pF @ 1 km)
12 or less	83 ± 7 (52 ± 4)	80 (145)	-	800 (2,625)	-
Over 12	83 ± 4 (52 ± 2)	80 (145)	25 (45)	800 (2,625)	175 (574)

	Maximum Average Maximum Conductor Minimum Insulation Attenuation* Resistance @ 68°F (20°C)		DC Resistance Unbalance Maximum %		Dielectric Strength DC Potential - Volts		
Conductor Size AWG (mm)	Resistance @ 68°F (20°C) gigohm-mile (gigohm-km)	772 kHz @ 68°F (20°C) dB/kft (dB/km)	Ohms/sheath mile (km)	Average	Individual Pair	Conductor to Conductor	Conductor to Shield
19 (0.90)	1.0 (1.6)	3.3 (10.8)	45.0 (28.0)	1.5	5.0	5,000	10,000
22 (0.64)	1.0 (1.6)	4.7 (15.4)	91.0 (56.5)	1.5	5.0	4,000	10,000
24 (0.51)	1.0 (1.6)	5.9 (19.4)	144.0 (89.5)	1.5	5.0	3,000	10,000

*For cables with 12-pair or less, the maximum average attenuation may be increased by 10% over the values shown.

	Minimum Near End Crosstalk (NEXT) @ 772 kHz
PSWUNEXT Mean (dB)	47
PSWUNEXT Worst Pair (dB)	42

Conductor Size (AWG)	Minimum Far End Crosstalk (FEXT) @ 772 kHz		
	19	22	24
PSELFEXT Mean (dB/kft)	51	49	49
PSELFEXT Worst Pair (dB/kft)	45	43	43



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OSP CABLE

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WIRELESS

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			Nomina	l Diameter			Approx.	Reel Size
Part Number	Pair Count	AWG (mm)	Cable only in (mm)	With Messenger in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Shipping Weight Ibs (kg)	F x T x D in
01-026-38	6	19 (0.90)	0.47 (12)	0.96 (24)	240 (355)	5,000 (1,524)	1,850 (839)	72 x 36 x 3
01-028-38	12	19 (0.90)	0.56 (14)	1.05 (27)	305 (455)	5,000 (1,524)	1,795 (814)	58 x 25 x 2
01-031-38	25	19 (0.90)	0.74 (19)	1.24 (31)	445 (660)	5,000 (1,524)	2,975 (1,349)	78 x 40 x 3
01-034-38	50	19 (0.90)	1.01 (26)	1.48 (38)	715 (1,065)	5,000 (1,524)	4,395 (1,993)	84 x 40 x 4
01-038-38	100	19 (0.90)	1.36 (35)	1.82 (46)	1,235 (1,840)	2,500 (762)	3,685 (1,671)	72 x 36 x 3
01-057-38	6	22 (0.64)	0.38 (9.7)	0.87 (22)	200 (300)	5,000 (1,524)	1,270 (576)	58 x 25 x 2
01-059-38	12	22 (0.64)	0.45 (11)	0.94 (24)	235 (350)	5,000 (1,524)	1,515 (687)	62 x 30 x 2
01-062-38	25	22 (0.64)	0.59 (15)	1.08 (27)	315 (470)	5,000 (1,524)	2,225 (1,009)	72 x 36 x 3
01-065-38	50	22 (0.64)	0.75 (19)	1.25 (32)	450 (670)	5,000 (1,524)	3,000 (1,361)	78 x 40 x 3
01-069-38	100	22 (0.64)	1.03 (26)	1.50 (38)	725 (1,080)	2,500 (762)	2,100 (952)	62 x 30 x 2
01-073-38	200	22 (0.64)	1.40 (36)	1.86 (47)	1,255 (1,870)	2,500 (762)	3,725 (1,689)	72 x 36 x 3
01-092-38	6	24 (0.51)	0.34 (8.6)	0.83 (21)	185 (275)	5,000 (1,524)	1,115 (506)	46 x 25 x 2
01-094-38	12	24 (0.51)	0.40 (10)	0.89 (23)	210 (315)	5,000 (1,524)	1,280 (580)	52 x 25 x 2
01-097-38	25	24 (0.51)	0.50 (13)	0.99 (25)	260 (385)	5,000 (1,524)	1,595 (723)	58 x 25 x 2
01-100-38	50	24 (0.51)	0.63 (16)	1.12 (28)	350 (520)	5,000 (1,524)	2,065 (937)	62 x 30 x 2
01-104-38	100	24 (0.51)	0.81 (21)	1.31 (33)	515 (765)	5,000 (1,524)	3,275 (1,485)	72 x 36 x 3
01-108-38	200	24 (0.51)	1.14 (29)	1.60 (41)	875 (1,300)	2,500 (762)	2,440 (1,107)	62 x 30 x 2

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TECHNICAL GUIDELINE

Sag and Tension Technical Guidelines are available for these products. Refer to the "Resources" section on our site for more information.







Insulationpolyolefin over which is applied a solid (skin) layer of polyolefin colored in accordance with industry standardsTwisted PairsIndividual insulated conductors; twisted into pairs with lvarying lay lengths; specific color combinations provide pair identification< 25-Pair CorePairs are assembled into a cylindrical core> 25-Pair CoreCables larger than 25-pair are assembled into units, which are then used to assemble the core; units are identifiable using color-coded bindersFilling Compound80°C ETPR compound, completely filling the interstices between the pairs and under the core wrapCore WrapNon-hygroscopic, dielectric tapeShieldCorrugated, copolymer coated, 8 mil aluminum tape applie longitudinally with an overlap; flooded shield interfacesSupport MemberBlack, polyethyleneJacketBlack, polyethyleneIdentifying information includes a telephone handset, cable code, pair count, AWG, date of manufacture and sequential length markings at 2 foot intervals	SPECIFICATIONS				
Insulationpolyolefin over which is applied a solid (skin) layer of polyolefin colored in accordance with industry standardsTwisted PairsIndividual insulated conductors; twisted into pairs with lvarying lay lengths; specific color combinations provide pair identification< 25-Pair CorePairs are assembled into a cylindrical core> 25-Pair CoreCables larger than 25-pair are assembled into units, which are then used to assemble the core; units are identifiable using color-coded bindersFilling Compound80°C ETPR compound, completely filling the interstices between the pairs and under the core wrapCore WrapNon-hygroscopic, dielectric tapeShieldCorrugated, copolymer coated, 8 mil aluminum tape applie longitudinally with an overlap; flooded shield interfacesSupport Member0.25 inch, 7-strand Extra High Strength (EHS) galvanized steel messenger serves as support member and integral part of the sheath; messenger is floodedJacketBlack, polyethyleneLacket MarkingIdentifying information includes a telephone handset, cable code, pair count, AWG, date of manufacture and sequential length markings at 2 foot intervals	Conductor	Solid annealed copper			
Twisted Pairs varying lay lengths; specific color combinations provide pair identification < 25-Pair Core Pairs are assembled into a cylindrical core > 25-Pair Core Cables larger than 25-pair are assembled into units, which are then used to assemble the core; units are identifiable using color-coded binders Filling Compound 80°C ETPR compound, completely filling the interstices between the pairs and under the core wrap Core Wrap Non-hygroscopic, dielectric tape Shield Corrugated, copolymer coated, 8 mil aluminum tape applie longitudinally with an overlap; flooded shield interfaces Support Member 0.25 inch, 7-strand Extra High Strength (EHS) galvanized integral part of the sheath; messenger is flooded Jacket Black, polyethylene Identifying information includes a telephone handset, cable code, pair count, AWG, date of manufacture and sequential length markings at 2 foot intervals	Insulation	Dual insulation consisting of an inner layer of foamed, natural polyolefin over which is applied a solid (skin) layer of polyolefin colored in accordance with industry standards			
> 25-Pair Core Cables larger than 25-pair are assembled into units, which are then used to assemble the core; units are identifiable using color-coded binders Filling Compound 80°C ETPR compound, completely filling the interstices between the pairs and under the core wrap Core Wrap Non-hygroscopic, dielectric tape Shield Corrugated, copolymer coated, 8 mil aluminum tape applie longitudinally with an overlap; flooded shield interfaces Support Member 0.25 inch, 7-strand Extra High Strength (EHS) galvanized steel messenger serves as support member and integral part of the sheath; messenger is flooded Jacket Black, polyethylene Jacket Marking Identifying information includes a telephone handset, cable code, pair count, AWG, date of manufacture and sequential length markings at 2 foot intervals	Twisted Pairs	varying lay lengths; specific color combinations			
> 25-Pair Core which are then used to assemble the core; units are identifiable using color-coded binders Filling Compound 80°C ETPR compound, completely filling the interstices between the pairs and under the core wrap Core Wrap Non-hygroscopic, dielectric tape Shield Corrugated, copolymer coated, 8 mil aluminum tape applie longitudinally with an overlap; flooded shield interfaces Support Member 0.25 inch, 7-strand Extra High Strength (EHS) galvanized steel messenger serves as support member and integral part of the sheath; messenger is flooded Jacket Black, polyethylene Jacket Marking Identifying information includes a telephone handset, cable code, pair count, AWG, date of manufacture and sequential length markings at 2 foot intervals	≤ 25-Pair Core	Pairs are assembled into a cylindrical core			
Filling Compound between the pairs and under the core wrap Core Wrap Non-hygroscopic, dielectric tape Shield Corrugated, copolymer coated, 8 mil aluminum tape applie longitudinally with an overlap; flooded shield interfaces Support Member 0.25 inch, 7-strand Extra High Strength (EHS) galvanized steel messenger serves as support member and integral part of the sheath; messenger is flooded Jacket Black, polyethylene Jacket Marking Identifying information includes a telephone handset, cable code, pair count, AWG, date of manufacture and sequential length markings at 2 foot intervals	> 25-Pair Core	which are then used to assemble the core; units are			
Shield Corrugated, copolymer coated, 8 mil aluminum tape applie longitudinally with an overlap; flooded shield interfaces Support Member 0.25 inch, 7-strand Extra High Strength (EHS) galvanized steel messenger serves as support member and integral part of the sheath; messenger is flooded Jacket Black, polyethylene Identifying information includes a telephone handset, cable code, pair count, AWG, date of manufacture and sequential length markings at 2 foot intervals	Filling Compound				
Snield longitudinally with an overlap; flooded shield interfaces Support Member 0.25 inch, 7-strand Extra High Strength (EHS) galvanized steel messenger serves as support member and integral part of the sheath; messenger is flooded Jacket Black, polyethylene Jacket Marking Identifying information includes a telephone handset, cable code, pair count, AWG, date of manufacture and sequential length markings at 2 foot intervals	Core Wrap	Non-hygroscopic, dielectric tape			
Support Member steel messenger serves as support member and integral part of the sheath; messenger is flooded Jacket Black, polyethylene Jacket Marking Identifying information includes a telephone handset, cable code, pair count, AWG, date of manufacture and sequential length markings at 2 foot intervals	Shield	Corrugated, copolymer coated, 8 mil aluminum tape applied longitudinally with an overlap; flooded shield interfaces			
Jacket Marking Identifying information includes a telephone handset, cable code, pair count, AWG, date of manufacture and sequential length markings at 2 foot intervals	Support Member				
Jacket Marking cable code, pair count, AWG, date of manufacture and sequential length markings at 2 foot intervals	Jacket	Black, polyethylene			
	Jacket Marking	cable code, pair count, AWG, date of manufacture			
Standards Compliancerequirements of RDUP specification 7 CFR 1755.890(PE-89), except that the figure 8 sheath shall meet the	Standards Compliance	(PE-89), except that the figure 8 sheath shall meet the requirements of ANSI/ICEA S-85-625-2011 Option A			

PRODUCT DESCRIPTION

SEALPIC®-FSF-84 Cables are suited for aerial applications where a filled cable design is preferred. The core and support member (messenger) lay parallel to each other forming a cross-sectional "figure 8." The support messenger is an integral part of the cable sheath, yet readily available for gripping, pulling and tensioning.

APPLICATIONS

lay lengths

• Fully flooded steel

support member • Black, polyethylene jacket

• Fully flooded shield interfaces

Core wrap

Filled core

Aerial

FEATURES

.

BENEFITS Twisted into pairs with varying

- Minimizes crosstalk
 - Provides thermal protection .
 - Moisture resistant
 - . Inhibits corrosion and water migration
 - Inhibits corrosion
 - Provides a tough, protective covering designed to withstand exposure to direct sunlight, atmospheric temperature changes and stresses expected in standard installations

ELECTRICAL SPECIFICATIONS

Number of Pairs	Average Mutual	•	e Unbalance ir @ 1 kHz	Capacitance Unbalance Pair to Ground @ 1 kHz		
	Capacitance @ 1,000 Hz nF/mile (nF/km)	Maximum Individual pF @ 1 kft (pF @ 1 km)	Maximum RMS pF @ 1 kft (pF @ 1 km)	Maximum Individual pF @ 1 kft (pF @ 1 km)	Maximum Average pF @ 1 kft (pF @ 1 km)	
12 or less	83 ± 7 (52 ± 4)	80 (145)	-	800 (2,625)	-	
Over 12	83 ± 4 (52 ± 2)	80 (145)	25 (45)	800 (2,625)	175 (574)	

Conductor Size AWG (mm)	Minimum Insulation	Maximum Average Attenuation*	5		nce Unbalance mum %	Dielectric Strength DC Potential - Volts	
	Resistance @ 68°F (20°C) gigohm-mile (gigohm-km)	772 kHz @ 68°F (20°C) dB/kft (dB/km)*	Ohms/sheath mile (km)	Average	Individual Pair	Conductor to Conductor	Conductor to Shield
22 (0.64)	1.0 (1.6)	4.5 (14.8)	91.0 (56.5)	1.5	5.0	3,600	10,000
24 (0.51)	1.0 (1.6)	5.6 (18.4)	144.0 (89.5)	1.5	5.0	3,000	10,000

*For cables with 12-pair or less, the maximum average attenuation may be increased by 10% over the values shown.

	Minimum Near End Crosstalk (NEXT) @ 772 kHz
PSWUNEXT Mean (dB)	47
PSWUNEXT Worst Pair (dB)	42

	Minimum Far End Crosstalk (FEX @ 772 kHz				
Conductor Size (AWG)	22	24			
PSELFEXT Mean (dB/kft)	49	49			
PSELFEXT Worst Pair (dB/kft)	43	43			



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			Nomina	I Diameter			Approx.	Reel Size
Part Number	Pair Count	AWG (mm)	Cable only in (mm)	With Messenger in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Shipping Weight Ibs (kg)	FxTxD
09-057-05	6	22 (0.64)	0.37 (9.4)	0.84 (22)	205 (305)	5,000 (1,524)	1,255 (569)	52 x 25 x 20
09-059-05	12	22 (0.64)	0.46 (12)	0.93 (24)	250 (370)	5,000 (1,524)	1,513 (687)	52 x 25 x 20
09-062-05	25	22 (0.64)	0.59 (15)	1.06 (27)	330 (490)	5,000 (1,524)	1,945 (882)	58 x 25 x 20
09-065-05	50	22 (0.64)	0.75 (19)	1.22 (31)	485 (720)	5,000 (1,524)	2,765 (1,254)	62 x 30 x 24
09-092-05	6	24 (0.51)	0.34 (8.6)	0.83 (21)	185 (275)	5,000 (1,524)	1,115 (506)	46 x 25 x 20
09-094-05	12	24 (0.51)	0.40 (10)	0.89 (23)	210 (315)	5,000 (1,524)	1,280 (580)	52 x 25 x 20
09-097-05	25	24 (0.51)	0.50 (13)	0.99 (25)	260 (385)	5,000 (1,524)	1,595 (723)	58 x 25 x 20
09-100-05	50	24 (0.51)	0.63 (16)	1.12 (28)	350 (520)	5,000 (1,524)	2,065 (937)	62 x 30 x 24
09-104-05	100	24 (0.51)	0.81 (21)	1.31 (33)	515 (765)	5,000 (1,524)	3,275 (1,485)	72 x 36 x 36
09-108-05	200	24 (0.51)	1.14 (29)	1.60 (41)	875 (1,300)	2,500 (762)	2,440 (1,107)	62 x 30 x 24
09-110-05	300	24 (0.51)	1.36 (35)	1.81 (46)	1,200 (1,785)	2,500 (762)	3,585 (1,626)	72 x 36 x 36



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TECHNICAL GUIDELINE

Sag and Tension Technical Guidelines are available for these products. Refer to the "Resources" section on our site for more information.

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RDUP PE-89



SPECIFICATIONS	
Conductor	Solid annealed copper
Insulation	Dual insulation consisting of an inner layer of foamed, natural polyolefin over which is applied a solid (skin) layer of polyolefin colored in accordance with industry standards
Twisted Pairs	Individual insulated conductors; twisted into pairs with varying lay lengths; specific color combinations provide pair identification
≤ 25-Pair Core	Pairs are assembled into a cylindrical core
> 25-Pair Core	Cables larger than 25-pair are assembled into units, which are then used to assemble the core; units are identifiable using color-coded binders
Filling Compound	80°C ETPR compound, completely filling the interstices between the pairs and under the core wrap
Core Wrap	Non-hygroscopic, dielectric tape applied over the core
Shield	Corrugated, copolymer coated, 8 mil aluminum tape applied longitudinally with an overlap; flooded shield interfaces
Jacket	Black, polyethylene
Jacket Marking	Identifying information includes a telephone handset, cable code, pair count, AWG, date of manufacture and sequential length markings at 2 foot intervals
Standards Compliance	ANSI/ICEA S-84-608-2011 RDUP 7 CFR 1755.890 (PE-89) RoHS-compliant

PRODUCT DESCRIPTION

SEALPIC®-FSF Cables are designed for low risk direct burial or duct applications where protection from moisture is required and aluminum shielding is desired. SEALPIC-FSF may be used aerially, but must be attached to a support strand.

APPLICATIONS

- Low risk direct burial
- Underground conduit
- Lashed aerial

FEATURES

- Twisted into pairs with varying lay lengths
- Core wrap
- Filled core
- Fully flooded shield interfaces
- Black, polyethylene jacket
- BENEFITS
- Minimizes crosstalk
- Provides thermal protection
- Moisture resistant
- Inhibits corrosion and water migration
- Provides a tough, protective covering designed to withstand exposure to direct sunlight, atmospheric temperature changes and stresses expected in standard installations

ELECTRICAL SPECIFICATIONS

Number of Pairs	Average Mutual		e Unbalance ir @1kHz	Capacitance Unbalance Pair to Ground @ 1 kHz		
	Capacitance @ 1,000 Hz nF/mile (nF/km)	Maximum Individual pF @ 1 kft (pF @ 1 km)	Maximum RMS pF @ 1 kft (pF @ 1 km)	Maximum Individual pF @ 1 kft (pF @ 1 km)	Maximum Average pF @ 1 kft (pF @ 1 km)	
12 or less	83 ± 7 (52 ± 4)	80 (145)	-	800 (2,625)	-	
Over 12	83 ± 4 (52 ± 2)	80 (145)	25 (45)	800 (2,625)	175 (574)	

Conductor Size AWG (mm)	Minimum Insulation	Maximum Average Maximum Conductor Attenuation* Resistance @ 68°F (20°C			ice Unbalance mum %	Dielectric Strength DC Potential - Volts	
	Resistance @ 68°F (20°C) gigohm-mile (gigohm-km)	772 kHz @ 68°F (20°C) dB/kft (dB/km)	Ohms/sheath mile (km)	Average	Individual Pair	Conductor to Conductor	Conductor to Shield
19 (0.90)	1.0 (1.6)	3.2 (10.5)	45.0 (28.0)	1.5	5.0	4,500	10,000
22 (0.64)	1.0 (1.6)	4.5 (14.8)	91.0 (56.5)	1.5	5.0	3,600	10,000
24 (0.51)	1.0 (1.6)	5.6 (18.4)	144.0 (89.5)	1.5	5.0	3,000	10,000
26 (0.40)	1.0 (1.6)	7.0 (23.3)	232.0 (144.0)	1.5	5.0	2,400	10,000

*For cables with 12-pair or less, the maximum average attenuation may be increased by 10% over the values shown.

	Minimum Near End Crosstalk (NEXT) @ 772 kHz
PSWUNEXT Mean (dB)	47
PSWUNEXT Worst Pair (dB)	42

	Minimum Far End Crosstalk (FE @ 772 kHz					
Conductor Size (AWG)	19	22	24	26		
PSELFEXT Mean (dB/kft)	51	49	49	47		
PSELFEXT Worst Pair (dB/kft)	45	43	43	43		



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Part Number	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight Ibs/kft (kg/km)	Standard Length ft (m)	Approx. Shipping Weight Ibs (kg)	Reel Size F x T x D in
09-026-02	6	19 (0.90)	0.49 (12)	120 (180)	5,000 (1,524)	710 (320)	44 x 18 x 20
09-028-02	12	19 (0.90)	0.59 (15)	190 (285)	5,000 (1,524)	1,115 (505)	46 x 25 x 20
09-031-02	25	19 (0.90)	0.78 (20)	355 (530)	5,000 (1,524)	1,980 (895)	52 x 25 x 20
09-034-02	50	19 (0.90)	1.03 (26)	655 (975)	5,000 (1,524)	3,565 (1,615)	62 x 30 x 24
09-038-02	100	19 (0.90)	1.37 (35)	1,225 (1,825)	2,500 (762)	3,430 (1,555)	65 x 30 x 32
09-057-02	6	22 (0.64)	0.39 (9.9)	70 (105)	5,000 (1,524)	415 (190)	36 x 18 x 14
09-059-02	12	22 (0.64)	0.47 (12)	115 (170)	5,000 (1,524)	685 (310)	44 x 18 x 20
09-062-02	25	22 (0.64)	0.60 (15)	200 (300)	5,000 (1,524)	1,165 (530)	46 x 25 x 20
09-065-02	50	22 (0.64)	0.77 (20)	350 (520)	5,000 (1,524)	1,955 (885)	52 x 25 x 20
09-069-02	100	22 (0.64)	1.02 (26)	650 (965)	5,000 (1,524)	3,540 (1,605)	62 x 30 x 24
09-073-02	200	22 (0.64)	1.38 (35)	1,225 (1,825)	2,500 (762)	3,350 (1,520)	62 x 30 x 24
09-075-02	300	22 (0.64)	1.65 (42)	1,800 (2,680)	1,250 (381)	2,495 (1,130)	58 x 25 x 20
09-077-02	400	22 (0.64)	1.88 (48)	2,365 (3,520)	1,250 (381)	3,245 (1,470)	62 x 30 x 24
09-081-02	600	22 (0.64)	2.28 (58)	3,505 (5,215)	1,250 (381)	4,995 (2,265)	72 x 35 x 3
09-083-02	900	22 (0.64)	2.76 (70)	5,195 (7,730)	1,250 (381)	7,290 (3,305)	84 x 40 x 42
09-085-02	1,200	22 (0.64)	3.14 (80)	6,845 (10,185)	1,250 (381)	9,730 (4,415)	96 x 40 x 48
09-087-02	1,500	22 (0.64)	3.51 (89)	8,520 (12,680)	1,000 (305)	9,695 (4,400)	96 x 40 x 48
09-092-02	6	24 (0.51)	0.36 (9.1)	55 (80)	5,000 (1,524)	320 (145)	36 x 18 x 14
09-094-02	12	24 (0.51)	0.42 (11)	85 (125)	5,000 (1,524)	490 (220)	36 x 18 x 14
09-097-02	25	24 (0.51)	0.52 (13)	140 (210)	5,000 (1,524)	810 (365)	44 x 18 x 20
09-100-02	50	24 (0.51)	0.66 (17)	240 (355)	5,000 (1,524)	1,365 (620)	46 x 25 x 20
09-104-02	100	24 (0.51)	0.85 (22)	430 (640)	5,000 (1,524)	2,395 (1,085)	58 x 25 x 20
09-108-02	200	24 (0.51)	1.14 (29)	810 (1,205)	5,000 (1,524)	4,665 (2,115)	72 x 35 x 30
09-110-02	300	24 (0.51)	1.37 (35)	1,180 (1,755)	2,500 (762)	3,320 (1,505)	65 x 30 x 32
09-112-02	400	24 (0.51)	1.55 (39)	1,545 (2,300)	2,500 (762)	4,475 (2,030)	72 x 35 x 36
09-116-02	600	24 (0.51)	1.88 (48)	2,285 (3,400)	1,250 (381)	3,145 (1,425)	62 x 30 x 24
09-118-02	900	24 (0.51)	2.25 (57)	3,350 (4,985)	1,250 (381)	4,800 (2,180)	72 x 35 x 3
09-120-02	1,200	24 (0.51)	2.57 (65)	4,420 (6,580)	1,250 (381)	6,225 (2,825)	78 x 40 x 3
09-121-02	1,500	24 (0.51)	2.86 (73)	5,490 (8,170)	1,000 (305)	6,190 (2,805)	84 x 40 x 42
09-124-02	1,800	24 (0.51)	3.12 (79)	6,560 (9,765)	1,000 (305)	7,355 (3,335)	84 x 40 x 42
09-125-02	2,100	24 (0.51)	3.40 (86)	7,690 (11,445)	1,000 (305)	8,865 (4,020)	96 x 40 x 4
09-126-02	2,400	24 (0.51)	3.59 (91)	8,695 (12,940)	1,000 (305)	9,870 (4,475)	96 x 40 x 4
09-151-02	600	26 (0.40)	1.49 (38)	1,455 (2,165)	2,500 (762)	4,250 (1,930)	72 x 35 x 36
09-153-02	900	26 (0.40)	1.78 (45)	2,120 (3,155)	1,250 (381)	3,020 (1,370)	65 x 30 x 32
09-155-02	1,200	26 (0.40)	2.03 (52)	2,785 (4,145)	1,250 (381)	4,095 (1,860)	72 x 35 x 3
09-156-02	1,500	26 (0.40)	2.28 (58)	3,480 (5,180)	1,250 (381)	4,965 (2,250)	72 x 35 x 3
09-157-02	1,800	26 (0.40)	2.48 (63)	4,150 (6,175)	1,250 (381)	5,885 (2,670)	78 x 40 x 39
09-159-02	2,400	26 (0.40)	2.86 (73)	5,515 (8,210)	1,250 (381)	8,070 (3,660)	96 x 40 x 4
09-164-02	3,600	26 (0.40)	3.45 (88)	8,165 (12,150)	1,000 (305)	9,340 (4,235)	96 x 40 x 4

FOR EXTREME RISK ENVIRONMENTS

For extreme direct burial or lashed aerial installations, this cable is available with the +M feature. See the "Mechanical Protection (+M) for Extreme Risk Environments" in the "Technical Information" section for more information.

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RDUP PE-89



SPECIFICATIONS	
Conductor	Solid Appealed Copper
Conductor	Solid Annealed Copper
Insulation	Dual insulation consisting of an inner layer of foamed, natural polyolefin over which is applied a solid (skin) layer of polyolefin colored in accordance with industry standards
Twisted Pairs	Individual insulated conductors; twisted into pairs with varying lay lengths; specific color combinations provide pair identification
≤ 25-Pair Core	Pairs are assembled into a cylindrical core
> 25-Pair Core	Cables larger than 25-pair are assembled into units, which are then used to assemble the core; units are identifiable using color-coded binders
Filling Compound	80°C ETPR compound, completely filling the interstices between the pairs and under the core wrap
Core Wrap	Non-hygroscopic, dielectric tape applied over the core
Inner Shield	Corrugated, copolymer coated, 8 mil aluminum tape applied directly over the core wrap; does not butt or overlap at any point along the length of the cable; flooded shield interface
Outer Shield	Rodent resistant, corrugated, copolymer coated, 6 mil steel tape applied directly over the aluminum and overlaps; flooded shield interface
Jacket	Black, polyethylene
Jacket Marking	Identifying information includes a telephone handset, cable code, pair count, AWG, date of manufacture and sequential length markings at 2 foot intervals
Standards Compliance	ANSI/ICEA S-84-608-2011 RDUP 7 CFR 1755.890 (PE-89) RoHS-compliant

PRODUCT DESCRIPTION

CASPIC[®]-FSF Cables are designed for direct burial applications. CASPIC-FSF cables are recommended for use in high-risk areas where additional mechanical or rodent protection is required. CASPIC-FSF may be used aerially, but must be attached to a support strand.

APPLICATIONS

- Direct burial where additional mechanical protection is required or desired
- Lashed aerial where additional mechanical protection is required or desired

FEATURES

- Twisted into pairs with varying lay lengths
- Core wrap
- Filled core
- Dual shield design
- Fully flooded shield interfaces
- Black, polyethylene jacket
- Minimizes crosstalk
- Provides thermal protection
- Moisture resistant
- Rodent resistant
- Inhibits corrosion and water migration
- Provides a tough, protective covering designed to withstand exposure to direct sunlight, atmospheric temperature changes and stresses expected in standard installations

ELECTRICAL SPECIFICATIONS

	Average Mutual	•	e Unbalance ir @ 1 kHz	Capacitance Unbalance Pair to Ground @1kHz		
Number of Pairs	Capacitance @ 1,000 Hz nF/mile (nF/km)	Maximum Individual pF @ 1 kft (pF @ 1 km)	Maximum RMS pF @ 1 kft (pF @ 1 km)	Maximum Individual pF @ 1 kft (pF @ 1 km)	Maximum Average pF @ 1 kft (pF @ 1 km)	
12 or less	83 ± 7 (52 ± 4)	80 (145)	-	800 (2,625)	-	
Over 12	83 ± 4 (52 ± 2)	80 (145)	25 (45)	800 (2,625)	175 (574)	

Minimum Insulation		Maximum Average Maximum Conducto Attenuation* Resistance @ 68°F (20		DC Resistance Unbalance Maximum %		Dielectric Strength DC Potential - Volts	
	Resistance @ 68°F (20°C) gigohm-mile (gigohm-km)	772 kHz @ 68°F (20°C) dB/kft (dB/km)	Ohms/sheath mile (km)	Average	Individual Pair	Conductor to Conductor	Conductor to Shield
19 (0.90)	1.0 (1.6)	3.2 (10.5)	45.0 (28.0)	1.5	5.0	4,500	10,000
22 (0.64)	1.0 (1.6)	4.5 (14.8)	91.0 (56.5)	1.5	5.0	3,600	10,000
24 (0.51)	1.0 (1.6)	5.6 (18.4)	144.0 (89.5)	1.5	5.0	3,000	10,000

*For cables with 12-pair or less, the maximum average attenuation may be increased by 10% over the values shown.

	Minimum Near End Crosstalk (NEXT) @ 772 kHz
PSWUNEXT Mean (dB)	47
PSWUNEXT Worst Pair (dB)	42

	Minimum Far End Crosstalk (FEXT) @ 772 kHz			
Conductor Size (AWG)	19	22	24	
PSELFEXT Mean (dB/kft)	51	49	49	
PSELFEXT Worst Pair (dB/kft)	45	43	43	



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Part Number	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight Ibs/kft (kg/km)	Standard Length ft (m)	Approx. Shipping Weight Ibs (kg)	Reel Size F x T x D in
09-031-92	25	19 (0.90)	0.81 (21)	415 (620)	5,000 (1,524)	2,320 (1,050)	58 x 25 x 20
09-034-92	50	19 (0.90)	1.07 (27)	740 (1,100)	5,000 (1,524)	4,315 (1,955)	72 x 35 x 36
09-038-92	100	19 (0.90)	1.41 (36)	1,345 (2,000)	5,000 (1,524)	7,425 (3,370)	78 x 40 x 39
09-057-92	6	22 (0.64)	0.42 (11)	95 (140)	5,000 (1,524)	540 (245)	36 x 18 x 14
09-059-92	12	22 (0.64)	0.50 (13)	150 (225)	5,000 (1,524)	860 (390)	44 x 18 x 20
09-062-92	25	22 (0.64)	0.63 (16)	245 (365)	5,000 (1,524)	1,390 (630)	46 x 25 x 20
09-065-92	50	22 (0.64)	0.80 (20)	410 (610)	5,000 (1,524)	2,295 (1,040)	58 x 25 x 20
09-069-92	100	22 (0.64)	1.05 (27)	730 (1,085)	5,000 (1,524)	4,265 (1,935)	72 x 35 x 36
09-073-92	200	22 (0.64)	1.42 (36)	1,345 (2,000)	2,500 (762)	3,650 (1,655)	62 x 30 x 24
09-075-92	300	22 (0.64)	1.70 (43)	1,945 (2,895)	1,250 (381)	2,720 (1,235)	62 x 30 x 24
09-077-92	400	22 (0.64)	1.92 (49)	2,535 (3,775)	1,250 (381)	3,455 (1,570)	62 x 30 x 24
09-081-92	600	22 (0.64)	2.32 (59)	3,710 (5,520)	1,250 (381)	5,250 (2,380)	72 x 35 x 36
09-083-92	900	22 (0.64)	2.81 (71)	5,455 (8,120)	1,250 (381)	7,615 (3,455)	84 x 40 x 42
09-092-92	6	24 (0.51)	0.39 (9.9)	80 (120)	5,000 (1,524)	465 (210)	36 x 18 x 14
09-094-92	12	24 (0.51)	0.45 (11)	110 (165)	5,000 (1,524)	615 (280)	36 x 18 x 14
09-097-92	25	24 (0.51)	0.55 (14)	180 (270)	5,000 (1,524)	1,065 (485)	46 x 25 x 20
09-100-92	50	24 (0.51)	0.69 (18)	290 (430)	5,000 (1,524)	1,615 (735)	46 x 25 x 20
09-104-92	100	24 (0.51)	0.88 (22)	500 (745)	5,000 (1,524)	2,745 (1,245)	58 x 25 x 20
09-108-92	200	24 (0.51)	1.18 (30)	905 (1,345)	2,500 (762)	2,510 (1,135)	58 x 25 x 20
09-110-92	300	24 (0.51)	1.41 (36)	1,300 (1,935)	2,500 (762)	3,540 (1,605)	62 x 30 x 24
09-112-92	400	24 (0.51)	1.59 (40)	1,680 (2,500)	2,500 (762)	4,815 (2,185)	72 x 35 x 36
09-116-92	600	24 (0.51)	1.92 (49)	2,450 (3,645)	1,250 (381)	3,350 (1,520)	62 x 30 x 24
09-118-92	900	24 (0.51)	2.29 (58)	3,555 (5,290)	1,250 (381)	5,060 (2,295)	72 x 35 x 36
09-120-92	1,200	24 (0.51)	2.62 (67)	4,660 (6,935)	1,250 (381)	6,525 (2,960)	78 x 40 x 39
09-121-92	1,500	24 (0.51)	2.91 (74)	5,755 (8,565)	1,000 (305)	6,455 (2,930)	78 x 40 x 39
09-124-92	1,800	24 (0.51)	3.17 (81)	6,855 (10,200)	1,000 (305)	7,650 (3,470)	84 x 40 x 42
09-125-92	2,100	24 (0.51)	3.45 (88)	8,015 (11,930)	1,000 (305)	9,190 (4,170)	96 x 40 x 48
09-126-92	2,400	24 (0.51)	3.64 (93)	9,035 (13,445)	750 (229)	7,950 (3,605)	96 x 40 x 48



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FOR EXTREME RISK ENVIRONMENTS

For extreme direct burial or lashed aerial installations, this cable is available with the +M feature. See the "Mechanical Protection (+M) for Extreme Risk Environments" in the "Technical Information" section for more information.

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OSP CABLE



SPECIFICATIONS Conductor Solid annealed copper Solid polyolefin; color coded in accordance Insulation with industry standards Individual insulated conductors; twisted into pairs with **Twisted Pairs** varying lay lengths; specific color combinations provide pair identification ≤ 25-Pair Core Pairs are assembled into a cylindrical core Cables larger than 25-pair are assembled into units, > 25-Pair Core which are then used to assemble the core; units are identifiable using color-coded binders 80°C ETPR compound, completely filling the interstices Filling Compound between the pairs and under the core wrap Core Wrap Non-hygroscopic, dielectric tape applied over the core Corrugated, copolymer coated, 8 mil aluminum tape applied Shield longitudinally with an overlap; flooded shield interfaces lacket Black, polyethylene Identifying information includes a telephone handset, Jacket Marking cable code, pair count, AWG, date of manufacture and sequential length markings at 2 foot intervals ANSI/ICEA S-84-608-2011 Standards Compliance RDUP 7 CFR 1755.390 (PE-39) RoHS-compliant

PRODUCT DESCRIPTION

SEALPIC®-F Cables are designed for low risk direct burial or duct applications. SEALPIC-F may be used aerially, but must be attached to a support strand.

APPLICATIONS

- Low risk direct burial
- Underground conduit
- Lashed aerial

FEATURES

- Twisted into pairs with varying lay lengths
 Core wrap
- Filled core
- Fully flooded shield interfaces
- Black, polyethylene jacket
- BENEFITS
- Minimizes crosstalk
- Provides thermal protection
- Moisture resistant
- Inhibits corrosion and water migration
- Provides a tough, protective covering designed to withstand exposure to direct sunlight, atmospheric temperature changes and stresses expected in standard installations

ELECTRICAL SPECIFICATIONS

	Average Mutual	•	e Unbalance ir @ 1 kHz	Capacitance Unbalance Pair to Ground @ 1 kHz		
Number of Pairs	Capacitance @ 1,000 Hz nF/mile (nF/km)	Maximum Individual pF @ 1 kft (pF @ 1 km)	Maximum RMS pF @ 1 kft (pF @ 1 km)	Maximum Individual pF @ 1 kft (pF @ 1 km)	Maximum Average pF @ 1 kft (pF @ 1 km)	
12 or less	83 ± 7 (52 ± 4)	80 (145)	-	800 (2,625)	-	
Over 12	83 ± 4 (52 ± 2)	80 (145)	25 (45)	800 (2,625)	175 (574)	

	Minimum Insulation	Maximum Average Minimum Insulation Attenuation*		DC Resistance Unbalance Maximum %		Dielectric Strength DC Potential - Volts	
Conductor Size AWG (mm)	Resistance @ 68°F (20°C) gigohm-mile (gigohm-km)	772 kHz @ 68°F (20°C) dB/kft (dB/km)	Resistance @ 68°F (20°C) Ohms/sheath mile (km)	Average	Individual Pair	Conductor to Conductor	Conductor to Shield
19 (0.90)	1.0 (1.6)	2.8 (9.2)	45.0 (28.0)	1.5	5.0	7,000	15,000
22 (0.64)	1.0 (1.6)	4.0 (13.1)	91.0 (56.5)	1.5	5.0	5,000	15,000
24 (0.51)	1.0 (1.6)	5.0 (16.4)	144.0 (89.5)	1.5	5.0	4,000	15,000

*For cables of 12-pair or less, the maximum average attenuation may be increased by 10% over the values shown.

	Minimum Near End Crosstalk (NEXT) @ 772 kHz
PSWUNEXT Mean (dB)	47
PSWUNEXT Worst Pair (dB)	42

	Minimum I	ar End Cross @ 772 kHz	alk (FEXT)
Conductor Size (AWG)	19	22	24
PSELFEXT Mean (dB/kft)	51	49	49
PSELFEXT Worst Pair (dB/kft)	45	43	43



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Part Number	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight Ibs/kft (kg/km)	Standard Length ft (m)	Approx. Shipping Weight Ibs (kg)	Reel Size F x T x D in
04-026-21	6	19 (0.90)	0.54 (14)	140 (210)	5,000 (1,524)	810 (365)	44 x 18 x 20
04-028-21	12	19 (0.90)	0.69 (18)	235 (350)	5,000 (1,524)	1,340 (610)	46 x 25 x 20
04-031-21	25	19 (0.90)	0.92 (23)	440 (655)	5,000 (1,524)	2,570 (1,165)	65 x 30 x 32
04-034-21	50	19 (0.90)	1.22 (31)	810 (1,205)	5,000 (1,524)	4,750 (2,155)	78 x 40 x 39
04-057-21	6	22 (0.64)	0.43 (11)	85 (125)	5,000 (1,524)	490 (220)	36 x 18 x 14
04-059-21	12	22 (0.64)	0.53 (14)	135 (200)	5,000 (1,524)	785 (355)	44 x 18 x 20
04-062-21	25	22 (0.64)	0.68 (17)	240 (355)	5,000 (1,524)	1,365 (620)	46 x 25 x 20
04-065-21	50	22 (0.64)	0.89 (23)	425 (630)	5,000 (1,524)	2,370 (1,075)	58 x 25 x 20
04-069-21	100	22 (0.64)	1.19 (30)	780 (1,160)	5,000 (1,524)	4,515 (2,050)	72 x 35 x 36
04-073-21	200	22 (0.64)	1.63 (41)	1,500 (2,230)	2,500 (762)	4,365 (1,980)	72 x 35 x 36
04-075-21	300	22 (0.64)	1.96 (50)	2,205 (3,280)	2,500 (762)	6,210 (2,820)	78 x 40 x 39
04-077-21	400	22 (0.64)	2.23 (57)	2,890 (4,300)	1,250 (381)	4,225 (1,915)	72 x 35 x 36
04-081-21	600	22 (0.64)	2.72 (69)	4,295 (6,390)	1,250 (381)	6,165 (2,795)	84 x 40 x 42
04-083-21	900	22 (0.64)	3.30 (84)	6,380 (9,495)	1,250 (381)	7,975 (3,615)	96 x 40 x 48
04-092-21	6	24 (0.51)	0.38 (9.7)	60 (90)	5,000 (1,524)	365 (165)	36 x 18 x 14
04-094-21	12	24 (0.51)	0.46 (12)	95 (140)	5,000 (1,524)	585 (265)	44 x 18 x 20
04-097-21	25	24 (0.51)	0.58 (15)	165 (245)	5,000 (1,524)	990 (450)	46 x 25 x 20
04-100-21	50	24 (0.51)	0.74 (19)	285 (425)	5,000 (1,524)	1,630 (740)	52 x 25 x 20
04-104-21	100	24 (0.51)	0.98 (25)	520 (775)	5,000 (1,524)	2,970 (1,345)	65 x 30 x 32
04-108-21	200	24 (0.51)	1.32 (34)	975 (1,450)	5,000 (1,524)	5,575 (2,530)	78 x 40 x 39
04-110-21	300	24 (0.51)	1.58 (40)	1,420 (2,115)	2,500 (762)	4,165 (1,890)	72 x 35 x 36
04-112-21	400	24 (0.51)	1.79 (46)	1,850 (2,755)	2,500 (762)	5,325 (2,415)	78 x 40 x 39
04-116-21	600	24 (0.51)	2.18 (55)	2,745 (4,085)	1,250 (381)	4,045 (1,835)	72 x 35 x 36
04-118-21	900	24 (0.51)	2.63 (67)	4,050 (6,025)	1,250 (381)	5,760 (2,615)	78 x 40 x 39
04-120-21	1,200	24 (0.51)	3.00 (76)	5,325 (7,925)	1,000 (305)	6,025 (2,730)	78 x 40 x 39
04-121-21	1,500	24 (0.51)	3.35 (85)	6,625 (9,860)	1,000 (305)	7,800 (3,540)	96 x 40 x 48
04-124-21	1,800	24 (0.51)	3.73 (95)	7,870 (11,710)	1,000 (305)	9,045 (4,105)	96 x 40 x 48



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FOR EXTREME RISK ENVIRONMENTS

For extreme direct burial or lashed aerial installations, this cable is available with the +M feature. See the "Mechanical Protection (+M) for Extreme Risk Environments" in the "Technical Information" section for more information.

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OSP CABLE



SPECIFICATIONS	
Conductor	Solid annealed copper
Insulation	Solid polyolefin; color coded in accordance with industry standards
Twisted Pairs	Individual insulated conductors; twisted into pairs with varying lay lengths; specific color combinations provide pair identification
≤ 25-Pair Core	Pairs are assembled into a cylindrical core
> 25-Pair Core	Cables larger than 25-pair are assembled into units, which are then used to assemble the core; units are identifiable using color-coded binders
Filling Compound	80°C ETPR compound, completely filling the interstices between the pairs and under the core wrap
Core Wrap	Non-hygroscopic, dielectric tape applied over the core
Shield	Corrugated, 5 mil copper tape is applied longitudinally with an overlap; shield interfaces are flooded
Jacket	Black, polyethylene
Jacket Marking	Identifying information includes a telephone handset, cable code, pair count, AWG, date of manufacture and sequential length markings at 2 foot intervals
Standards Compliance	ANSI/ICEA S-84-608-2011 RDUP 7 CFR 1755.390 (PE-39) RoHS-compliant

PRODUCT DESCRIPTION

CUPIC-F[®] Cables are designed for use in low risk duct or direct burial applications. CUPIC-F may be used aerially, but must be attached to a support strand.

APPLICATIONS

- Low risk direct burial
- Underground conduit
- Lashed aerial

FEATURES

- Twisted into pairs with varying lay lengths
 Core wrap
- Filled core
- Fully flooded shield interfaces
- Black, polyethylene jacket
- BENEFITS
- Minimizes crosstalk
- Provides thermal protection
- Moisture resistant
- Inhibits corrosion and water migration
- Provides a tough, protective covering designed to withstand exposure to direct sunlight, atmospheric temperature changes and stresses expected in standard installations

ELECTRICAL SPECIFICATIONS

	Capacitance Unbalance Average Mutual Pair to Pair @ 1 kHz			Capacitance Unbalance Pair to Ground @ 1 kHz		
Number of Pairs	Capacitance @ 1,000 Hz nF/mile (nF/km)	Maximum Individual pF @ 1 kft (pF @ 1 km)	Maximum RMS pF @ 1 kft (pF @ 1 km)	Maximum Individual pF @ 1 kft (pF @ 1 km)	Maximum Average pF @ 1 kft (pF @ 1 km)	
12 or less	83 ± 7 (52 ± 4)	80 (145)	-	800 (2,625)	-	
Over 12	83 ± 4 (52 ± 2)	80 (145)	25 (45)	800 (2,625)	175 (574)	

			0		Maximum Conductor Resistance @ 68°F (20°C)		nce Unbalance mum %	Dielectric Strength DC Potential – Volts	
Conductor Size AWG (mm)	Resistance @ 68°F (20°C) gigohm-mile (gigohm-km)	772 kHz @ 68°F (20°C) dB/kft (dB/km)	(20°C) Ohms/sheath		Individual Pair	Conductor to Conductor	Conductor to Shield		
19 (0.90)	1.0 (1.6)	2.8 (9.2)	45.0 (28.0)	1.5	5.0	7,000	15,000		
22 (0.64)	1.0 (1.6)	4.0 (13.1)	91.0 (56.5)	1.5	5.0	5,000	15,000		
24 (0.51)	1.0 (1.6)	5.0 (16.4)	144.0 (89.5)	1.5	5.0	4,000	15,000		

*For cables of 12-pair or less, the maximum average attenuation may be increased by 10% over the values shown.

	Minimum Near End Crosstalk (NEXT) @ 772 kHz
PSWUNEXT Mean (dB)	47
PSWUNEXT Worst Pair (dB)	42

	Minimum I	ar End Cross @ 772 kHz	alk (FEXT)
Conductor Size (AWG)	19	22	24
PSELFEXT Mean (dB/kft)	51	49	49
PSELFEXT Worst Pair (dB/kft)	45	43	43



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Part Number	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight Ibs/kft (kg/km)	Standard Length ft (m)	Approx. Shipping Weight Ibs (kg)	Reel Size F x T x D in
04-028-04	12	19 (0.90)	0.69 (18)	255 (380)	5,000 (1,524)	1,440 (655)	46 x 25 x 20
04-031-04	25	19 (0.90)	0.92 (23)	470 (700)	5,000 (1,524)	2,720 (1,235)	65 x 30 x 32
04-034-04	50	19 (0.90)	1.22 (31)	845 (1,260)	5,000 (1,524)	4,925 (2,235)	78 x 40 x 39
04-038-04	100	19 (0.90)	1.69 (43)	1,620 (2,410)	2,500 (762)	4,750 (2,155)	78 x 40 x 39
04-057-04	6	22 (0.64)	0.43 (11)	95 (140)	5,000 (1,524)	540 (245)	36 x 18 x 14
04-059-04	12	22 (0.64)	0.53 (14)	145 (215)	5,000 (1,524)	835 (380)	44 x 18 x 20
04-062-04	25	22 (0.64)	0.68 (17)	255 (380)	5,000 (1,524)	1,440 (655)	46 x 25 x 20
04-065-04	50	22 (0.64)	0.89 (23)	450 (670)	5,000 (1,524)	2,495 (1,130)	58 x 25 x 20
04-069-04	100	22 (0.64)	1.19 (30)	815 (1,215)	5,000 (1,524)	4,690 (2,125)	72 x 35 x 36
04-073-04	200	22 (0.64)	1.63 (41)	1,550 (2,305)	2,500 (762)	4,490 (2,035)	72 x 35 x 36
04-075-04	300	22 (0.64)	1.97 (50)	2,270 (3,380)	2,500 (762)	6,375 (2,890)	78 x 40 x 39
04-077-04	400	22 (0.64)	2.23 (57)	2,960 (4,405)	1,250 (381)	4,315 (1,955)	72 x 35 x 36
04-081-04	600	22 (0.64)	2.72 (69)	4,385 (6,525)	1,250 (381)	6,280 (2,850)	84 x 40 x 42
04-092-04	6	24 (0.51)	0.38 (9.7)	70 (105)	5,000 (1,524)	415 (190)	36 x 18 x 14
04-094-04	12	24 (0.51)	0.46 (12)	110 (165)	5,000 (1,524)	660 (300)	44 x 18 x 20
04-097-04	25	24 (0.51)	0.58 (15)	180 (270)	5,000 (1,524)	1,065 (485)	46 x 25 x 20
04-100-04	50	24 (0.51)	0.74 (19)	305 (455)	5,000 (1,524)	1,730 (785)	52 x 25 x 2
04-104-04	100	24 (0.51)	0.98 (25)	550 (820)	5,000 (1,524)	3,120 (1,415)	65 x 30 x 32
04-108-04	200	24 (0.51)	1.32 (34)	1,015 (1,510)	5,000 (1,524)	5,775 (2,620)	78 x 40 x 39
04-110-04	300	24 (0.51)	1.59 (40)	1,470 (2,190)	2,500 (762)	4,290 (1,945)	72 x 35 x 3
04-112-04	400	24 (0.51)	1.79 (46)	1,905 (2,835)	2,500 (762)	5,460 (2,475)	78 x 40 x 3
04-116-04	600	24 (0.51)	2.18 (55)	2,815 (4,190)	1,250 (381)	4,135 (1,875)	72 x 35 x 36
04-118-04	900	24 (0.51)	2.63 (67)	4,135 (6,155)	1,250 (381)	5,870 (2,660)	78 x 40 x 39
04-120-04	1,200	24 (0.51)	3.00 (76)	5,420 (8,065)	1,000 (305)	6,120 (2,775)	78 x 40 x 39
04-121-04	1,500	24 (0.51)	3.35 (85)	6,730 (10,015)	1,000 (305)	7,905 (3,585)	96 x 40 x 48
04-124-04	1,800	24 (0.51)	3.63 (92)	7,990 (11,890)	1,000 (305)	9,165 (4,155)	96 x 40 x 48



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FOR EXTREME RISK ENVIRONMENTS

For extreme direct burial or lashed aerial installations, this cable is available with the +M feature. See the "Mechanical Protection (+M) for Extreme Risk Environments" in the "Technical Information" section for more information.





SPECIFICATIONS Conductor Solid annealed copper Solid polyolefin; color coded in accordance Insulation with industry standards Individual insulated conductors; twisted into pairs with **Twisted Pairs** varying lay lengths; specific color combinations provide pair identification ≤ 25-Pair Core Pairs are assembled into a cylindrical core Cables larger than 25-pair are assembled into units, > 25-Pair Core which are then used to assemble the core; units are identifiable using color-coded binders 80°C ETPR compound, completely filling the interstices Filling Compound between the pairs and under the core wrap Core Wrap Non-hygroscopic, dielectric tape applied over the core Corrugated, rodent resistant, copper bearing armor applied Shield longitudinally with an overlap; flooded shield interfaces lacket Black, polyethylene Identifying information includes a telephone handset, Jacket Marking cable code, pair count, AWG, date of manufacture and sequential length markings at 2 foot intervals ANSI/ICEA S-84-608-2011 Standards Compliance RDUP 7 CFR 1755.390 (PE-39) RoHS-compliant

PRODUCT DESCRIPTION

GOPIC®-F Cables are designed for use in direct burial applications where additional mechanical or rodent protection is required. GOPIC-F may be used aerially, but must be attached to a support strand.

APPLICATIONS

- Direct burial where additional mechanical protection is required or desired
- Lashed aerial where additional mechanical protection is required or desired

FEATURES

- Twisted into pairs with varying lay lengths
- Core wrap
- Filled core
- Corrugated, copper bearing armor
- Fully flooded shield interfaces
- Black, polyethylene jacket

- BENEFITS
- Minimizes crosstalk
- Provides thermal protection
- Moisture resistant
- Rodent resistant
- Inhibits corrosion and water migration
- Provides a tough, protective covering designed to withstand exposure to direct sunlight, atmospheric temperature changes and stresses expected in standard installations

ELECTRICAL SPECIFICATIONS

	Capacitance Unbalance Average Mutual Pair to Pair @ 1 kHz			Capacitance Unbalance Pair to Ground @1kHz		
Number of Pairs	Capacitance @ 1,000 Hz nF/mile (nF/km)	Maximum Individual pF @ 1 kft (pF @ 1 km)	Maximum RMS pF @ 1 kft (pF @ 1 km)	Maximum Individual pF @ 1 kft (pF @ 1 km)	Maximum Average pF @ 1 kft (pF @ 1 km)	
12 or less	83 ± 7 (52 ± 4)	80 (145)	-	800 (2,625)	-	
Over 12	83 ± 4 (52 ± 2)	80 (145)	25 (45)	800 (2,625)	175 (574)	

	Minimum Insulation	Maximum Average Maximum Conductor on Attenuation* Resistance @ 68°F (20°(nce Unbalance mum %	Dielectric DC Potenti	0
Conductor Size AWG (mm)	Resistance @ 68°F (20°C) gigohm-mile (gigohm-km)	772 kHz @ 68°F (20°C) dB/kft (dB/km)	Ohms/sheath mile (km)	Average	Individual Pair	Conductor to Conductor	Conductor to Shield
19 (0.90)	1.0 (1.6)	2.8 (9.2)	45.0 (28.0)	1.5	5.0	7,000	15,000
22 (0.64)	1.0 (1.6)	4.0 (13.1)	91.0 (56.5)	1.5	5.0	5,000	15,000
24 (0.51)	1.0 (1.6)	5.0 (16.4)	144.0 (89.5)	1.5	5.0	4,000	15,000

*For cables of 12-pair or less, the maximum average attenuation may be increased by 10% over the values shown.

	Minimum Near End Crosstalk (NEXT) @ 772 kHz
PSWUNEXT Mean (dB)	47
PSWUNEXT Worst Pair (dB)	42

	Minimum	Far End Crosst @ 772 kHz	alk (FEXT)
Conductor Size (AWG)	19	22	24
PSELFEXT Mean (dB/kft)	51	49	49
PSELFEXT Worst Pair (dB/kft)	45	43	43



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OSP CABLE

FTTP

WIRELESS

Part Number	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Approx. Shipping Weight Ibs (kg)	Reel Size F x T x D in
04-026-27	6	19 (0.90)	0.54 (14)	155 (230)	5,000 (1,524)	885 (400)	44 x 18 x 20
04-028-27	12	19 (0.90)	0.69 (18)	255 (380)	5,000 (1,524)	1,440 (655)	46 x 25 x 20
04-031-27	25	19 (0.90)	0.92 (23)	470 (700)	5,000 (1,524)	2,720 (1,235)	65 x 30 x 32
04-034-27	50	19 (0.90)	1.22 (31)	850 (1,265)	5,000 (1,524)	4,950 (2,245)	78 x 40 x 39
04-038-27	100	19 (0.90)	1.69 (43)	1,620 (2,410)	2,500 (762)	4,665 (2,115)	72 x 35 x 36
04-057-27	6	22 (0.64)	0.43 (11)	95 (140)	5,000 (1,524)	540 (245)	36 x 18 x 14
04-059-27	12	22 (0.64)	0.53 (14)	150 (225)	5,000 (1,524)	860 (390)	44 x 18 x 20
04-062-27	25	22 (0.64)	0.68 (17)	260 (385)	5,000 (1,524)	1,465 (665)	46 x 25 x 20
04-065-27	50	22 (0.64)	0.89 (23)	450 (670)	5,000 (1,524)	2,495 (1,130)	58 x 25 x 20
04-069-27	100	22 (0.64)	1.19 (30)	820 (1,220)	5,000 (1,524)	4,715 (2,140)	72 x 35 x 36
04-073-27	200	22 (0.64)	1.63 (41)	1,555 (2,315)	2,,500 (762)	4,500 (2,040)	72 x 35 x 36
04-075-27	300	22 (0.64)	1.96 (50)	2,275 (3,385)	2,500 (762)	6,385 (2,895)	78 x 40 x 39
04-092-27	6	24 (0.51)	0.38 (9.7)	70 (105)	5,000 (1,524)	415 (190)	36 x 18 x 14
04-094-27	12	24 (0.51)	0.46 (12)	110 (165)	5,000 (1,524)	660 (300)	44 x 18 x 20
04-097-27	25	24 (0.51)	0.58 (15)	180 (270)	5,000 (1,524)	1,065 (485)	46 x 25 x 20
04-100-27	50	24 (0.51)	0.74 (19)	310 (460)	5,000 (1,524)	1,755 (795)	52 x 25 x 20
04-104-27	100	24 (0.51)	0.98 (25)	550 (820)	5,000 (1,524)	3,120 (1,415)	65 x 30 x 32
04-108-27	200	24 (0.51)	1.32 (34)	1,020 (1,520)	5,000 (1,524)	5,800 (2,630)	78 x 40 x 39
04-110-27	300	24 (0.51)	1.58 (40)	1,475 (2,195)	2,500 (762)	4,300 (1,950)	72 x 35 x 36
04-112-27	400	24 (0.51)	1.79 (46)	1,910 (2,845)	2,500 (762)	5,475 (2,485)	78 x 40 x 39
04-116-27	600	24 (0.51)	2.18 (55)	2,825 (4,205)	1,250 (381)	4,145 (1,880)	72 x 35 x 36
04-118-27	900	24 (0.51)	2.63 (67)	4,145 (6,170)	1,250 (381)	5,880 (2,665)	78 x 40 x 39
04-120-27	1,200	24 (0.51)	3.00 (76)	5,435 (8,090)	1,000 (305)	6,135 (2,780)	78 x 40 x 39
04-124-27	1,800	24 (0.51)	3.63 (92)	8,005 (11,915)	1,000 (305)	9,180 (4,165)	96 x 40 x 48



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FOR EXTREME RISK ENVIRONMENTS

For extreme direct burial or lashed aerial installations, this cable is available with the +M feature. See the "Mechanical Protection (+M) for Extreme Risk Environments" in the "Technical Information" section for more information.

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SPECIFICATIONS	
Conductor	Solid annealed copper
Insulation	Solid polyolefin in distinctive colors to facilitate pair identification
≤ 25-Pair Core	Pairs are combined into a cylindrical core
> 50-Pair Core	Multiples of 25-pair groups are assembled to form the final cable core; each group is identified by color coded non-hygroscopic binders; for 1,200-pair and larger, the color code is a Mirror Image design
Core Wrap	Non-hygroscopic dielectric material protects the core and helps provide core-to-shield dielectric strength
Shield	Corrugated bare 8 mil aluminum tape is applied longitudinally over the core wrap
Jacket	Black polyethylene
Shield/Jacket Options	If extra mechanical protection is desired, an additional outer steel armor and polyethylene jacket (UM) can be requested
Jacket Marking	Manufacturer's identification, pair count, AWG, product identification, sequential footage and a telephone handset printed at 2 foot intervals
Standards Compliance	Telcordia [®] GR-421-CORE Issue 2 RoHS-compliant

PRODUCT DESCRIPTION

ALPETH Cable is a solid insulated, single jacket air core design intended for aerial installations. In this application, the cable must be attached to a support strand (messenger). ALPETH cable is not recommended for any buried or duct application, with or without air pressure.

APPLICATIONS

Lashed aerial

FEATURES	BENEFITS
 Tightly controlled individual conductor dimensions 	 Limits resistance unbalance of paired conductors
Specially designed pair twist lays	• Minimizes crosstalk and meets the capacitance unbalance requirements
Core wrap	 Protects core and provides improved mechanical and electrical characteristics
Bare aluminum tape shield	 Assures good electrical contact with non-piercing bonding clamps
Polyethylene jacket	 Provides a tough, flexible, protective covering that withstands exposure to sunlight

withstands exposure to sunlight, atmospheric temperatures and stresses expected in standard installations

Telcordia is a registered trademark of Ericsson Inc.

ELECTRICAL SPECIFICATIONS

	Average Mutual		e Unbalance ir @ 1 kHz	Capacitance Unbalance Pair to Ground @1kHz		
Number of Pairs	Capacitance @ 1,000 Hz nF/mile (nF/km)	Maximum Individual pF @ 1 kft (pF @ 1 km)	Maximum RMS pF @ 1 kft (pF @ 1 km)	Maximum Individual pF @ 1 kft (pF @ 1 km)	Maximum Average pF @ 1 kft (pF @ 1 km)	
Over 12	83 ± 4 (52 ± 2)	80 (145)	25 (45)	800 (2,625)	175 (574)	

Minimum Insulation		Maximum Average Attenuation	Maximum Conductor Resistance @ 68°F (20°C)	DC Resistance Unbalance Maximum %		Dielectric Strength DC Potential - Volts	
Conductor Size AWG (mm)	nductor Size Resistance @ 68°F (20°C) 772 kHz @ 68°F		58°F (20°C) Ohms/sheath		Individual Pair	Conductor to Conductor	Conductor to Shield
19 (0.90)	1.0 (1.6)	3.3 (10.8)	45 (28.0)	1.5	5.0	5,000	10,000
22 (0.64)	1.0 (1.6)	4.7 (15.4)	91 (56.5)	1.5	5.0	4,000	10,000
24 (0.51)	1.0 (1.6)	5.9 (19.4)	144 (89.5)	1.5	5.0	3,000	10,000
26 (0.40)	1.0 (1.6)	7.4 (24.3)	232 (144.2)	1.5	5.0	2,400	10,000

	Minimum Near End Crosstalk (NEXT) @ 772 kHz
PSWUNEXT Mean (dB)	47
PSWUNEXT Worst Pair (dB)	42

	Minimum Far End Crosstalk (FEXT) @ 772 kHz			
Conductor Size (AWG)	19	22	24	26
PSELFEXT Mean (dB/kft)	51	49	49	47
PSELFEXT Worst Pair (dB/kft)	45	43	43	43



Part Number	Product Code	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Approx. Shipping Weight Ibs (kg)	Steel Reel Size F x T x D in
20-031-42	BHBA	25	19 (0.90)	0.76 (19)	310 (460)	10,000 (3,048)	3,895 (1,765)	83 x 40 x 42
20-034-42	BHBA	50	19 (0.90)	1.00 (25)	570 (850)	10,000 (3,048)	6,495 (2,945)	83 x 40 x 42
20-038-42	BHBA	100	19 (0.90)	1.34 (34)	1,070 (1,590)	5,000 (1,524)	6,145 (2,785)	83 x 40 x 42
20-042-42	BHBA	200	19 (0.90)	1.85 (47)	2,075 (3,090)	2,500 (762)	5,985 (2,715)	83 x 40 x 42
20-044-42	BHBA	300	19 (0.90)	2.23 (57)	3,065 (4,560)	2,000 (610)	6,925 (3,140)	83 x 40 x 42
20-046-42	BHBA	400	19 (0.90)	2.73 (69)	4,172 (6,215)	1,260 (384)	5,997 (2,723)	83 x 40 x 42
20-062-42	BHAA	25	22 (0.64)	0.60 (15)	180 (270)	15,000 (4,572)	3,495 (1,585)	83 x 40 x 42
20-065-42	BHAA	50	22 (0.64)	0.77 (20)	315 (470)	15,000 (4,572)	5,520 (2,505)	83 x 40 x 42
20-069-42	BHAA	100	22 (0.64)	1.02 (26)	580 (865)	10,000 (3,048)	6,595 (2,990)	83 x 40 x 42
20-073-42	BHAA	200	22 (0.64)	1.38 (35)	1,090 (1,620)	5,000 (1,524)	6,245 (2,835)	83 x 40 x 42
20-075-42	BHAA	300	22 (0.64)	1.66 (42)	1,600 (2,380)	3,300 (1,006)	6,075 (2,755)	83 x 40 x 42
20-077-42	BHAA	400	22 (0.64)	1.89 (48)	2,110 (3,140)	2,500 (762)	6,070 (2,755)	83 x 40 x 42
20-081-42	BHAA	600	22 (0.64)	2.28 (58)	3,115 (4,635)	2,000 (610)	7,025 (3,185)	83 x 40 x 42
20-083-42	BHAA	900	22 (0.64)	2.76 (70)	4,625 (6,885)	1,100 (335)	5,885 (2,670)	83 x 40 x 42
20-097-42	BKMA	25	24 (0.51)	0.51 (13)	125 (185)	20,000 (6,096)	3,295 (1,495)	83 x 40 x 42
20-100-42	вкма	50	24 (0.51)	0.64 (16)	215 (320)	20,000 (6,096)	5,095 (2,310)	83 x 40 x 42
20-104-42	BKMA	100	24 (0.51)	0.83 (21)	380 (565)	13,300 (4,054)	5,850 (2,655)	83 x 40 x 42
20-108-42	BKMA	200	24 (0.51)	1.12 (28)	710 (1,055)	8,000 (2,438)	6,475 (2,935)	83 x 40 x 42
20-110-42	BKMA	300	24 (0.51)	1.33 (34)	1,035 (1,540)	5,700 (1,737)	6,695 (3,035)	83 x 40 x 42
20-112-42	BKMA	400	24 (0.51)	1.52 (39)	1,355 (2,015)	4,400 (1,341)	6,755 (3,065)	83 x 40 x 42
20-116-42	BKMA	600	24 (0.51)	1.82 (46)	1,995 (2,970)	2,500 (762)	6,980 (3,165)	83 x 40 x 42
20-118-42	BKMA	900	24 (0.51)	2.19 (56)	2,950 (4,390)	1,500 (458)	7,285 (3,305)	83 x 40 x 42
20-120-42	BKMA	1,200	24 (0.51)	2.50 (64)	3,905 (5,810)	1,600 (488)	7,045 (3,195)	83 x 40 x 42
20-121-42	BKMA	1,500	24 (0.51)	2.79 (71)	4,860 (7,235)	1,000 (305)	6,870 (3,115)	83 x 40 x 42
20-124-42	BKMA	1,800	24 (0.51)	3.05 (78)	5,810 (8,645)	1,140 (347)	7,420 (3,365)	83 x 40 x 42
20-145-42	BKTA	300	26 (0.40)	1.07 (27)	675 (1,005)	8,000 (2,438)	6,195 (2,810)	83 x 40 x 42
20-147-42	BKTA	400	26 (0.40)	1.23 (31)	875 (1,300)	6,600 (2,012)	6,570 (2,980)	83 x 40 x 42
20-151-42	BKTA	600	26 (0.40)	1.47 (37)	1,290 (1,920)	5,000 (1,524)	7,245 (3,285)	83 x 40 x 42
20-153-42	BKTA	900	26 (0.40)	1.75 (45)	1,890 (2,815)	3,300 (1,006)	7,030 (3,190)	83 x 40 x 42
20-155-42	BKTA	1,200	26 (0.40)	2.00 (51)	2,495 (3,715)	2,200 (671)	6,285 (2,850)	83 x 40 x 42
20-156-42	BKTA	1,500	26 (0.40)	2.25 (57)	3,100 (4,615)	2,000 (610)	6,995 (3,175)	83 x 40 x 42
20-157-42	BKTA	1,800	26 (0.40)	2.45 (62)	3,695 (5,500)	1,600 (488)	6,705 (3,040)	83 x 40 x 42
20-158-42	BKTA	2,100	26 (0.40)	2.65 (67)	4,305 (6,405)	1,140 (347)	5,705 (2,585)	83 x 40 x 42

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Rev 7/15 Ed 13.0



SPECIFICATIONS Conductor

Insulation

≤ 25-Pair Core

> 50-Pair Core

Core Wrap

Inner Jacket

Outer Jacket

Jacket Marking

Standards Compliance

Shield

Armor

	_

PRODUCT DESCRIPTION

PASP Cable is a solid insulated, double jacket, armored air core design intended for use in outside cable plant where a greater risk of physical damage exists. The inner jacket provides protection to the cable core in the event of severe damage to the outer protective sheath.

APPLICATIONS

Pressurized direct buried installations in harsh environments

	FEATURES	BENEFITS
	 Tightly controlled individual conductor dimensions 	 Limits resistance unbalance of paired conductors
Solid annealed copper	 Specially designed pair twist lays 	 Minimizes crosstalk and meets the capacitance unbalance
Conductors are insulated with solid polyolefin in distinctive colors to facilitate pair identification	Core wrap	requirementsProtects the core and provides
Pairs are combined into a cylindrical core		core-to-shield dielectric strength
Multiples of 25-pair groups are assembled to form the final cable core; each group is identified by color coded non-hygroscopic binders; for 1,200-pair and larger, the color code is a Mirror Image design	Inner polyethylene jacket	 Provides additional protection against mechanical damage and prevents the ingress of moisture
Non-hygroscopic dielectric material	 Aluminum tape shield 	 Assures good electrical contact with non-piercing bonding clamps
Polyethylene	 Steel tape armor bonded 	Protects the core from mechanical
Corrugated bare 8 mil aluminum tape applied longitudinally over the inner jacket	to outer jacket	damage and reduces the possibility of tape buckling during installation,
Corrugated, copolymer coated, 6 mil steel tape applied over the aluminum shield; armor is bonded to the outer jacket		ingress of water to the aluminum shield and of water along the cable
Black polyethylene		between the armor and outer jacket
Manufacturer's identification, pair count, AWG, product identification, sequential footage and a telephone handset printed at 2 foot intervals	Polyethylene jacket	 Provides a tough, flexible, protective covering that withstands exposure to sunlight, atmospheric temperatures,
Telcordia® GR-421-CORE Issue 2 RoHS-compliant		ground chemicals and stresses expected in standard installations

RoHS-compliant Telcordia is a registered trademark of Ericsson Inc.

ELECTRICAL SPECIFICATIONS

	Average Mutual	•	e Unbalance ir @ 1 kHz	Capacitance Unbalance Pair to Ground @1kHz		
Number of Pairs	Capacitance @ 1,000 Hz nF/mile (nF/km)	Maximum Individual pF @ 1 kft (pF @ 1 km)	Maximum RMS pF @ 1 kft (pF @ 1 km)	Maximum Individual pF @ 1 kft (pF @ 1 km)	Maximum Average pF @ 1 kft (pF @ 1 km)	
Over 12	83 ± 4 (52 ± 2)	80 (145)	25 (45)	800 (2,625)	175 (574)	

Minimum Insulation		Maximum Average Attenuation	Maximum Conductor Resistance @ 68°F (20°C)	Maximum 0/		Dielectric Strength DC Potential – Volts	
Conductor Size AWG (mm)	Resistance @ 68°F (20°C) gigohm-mile (gigohm-km)	772 kHz @ 68°F (20°C) dB/kft (dB/km)	Ohms/sheath mile (km)	Average	Individual Pair	Conductor to Conductor	Conductor to Shield
19 (0.90)	1.0 (1.6)	3.3 (10.8)	45 (28.0)	1.5	5.0	5,000	20,000
22 (0.64)	1.0 (1.6)	4.7 (15.4)	91 (56.5)	1.5	5.0	4,000	20,000
24 (0.51)	1.0 (1.6)	5.9 (19.4)	144 (89.5)	1.5	5.0	3,000	20,000
26 (0.40)	1.0 (1.6)	7.4 (24.3)	232 (144.2)	1.5	5.0	2,400	20,000

	Minimum Near End Crosstalk (NE) @ 772 kHz			
PSWUNEXT Mean (dB)	47			
PSWUNEXT Worst Pair (dB)		4	2	
	Minim		l Crosstalk 2 kHz	(FEXT)
Conductor Size (AWG)	Minim 19			(FEXT) 26
Conductor Size (AWG) PSELFEXT Mean (dB/kft)		@ 77	2 kHz	





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Part Number	Product Code	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Approx. Shipping Weight Ibs (kg)	Steel Reel Size F x T x D in
20-031-05	внвн	25	19 (0.90)	0.89 (23)	415 (620)	10,000 (3,048)	4,945 (2,245)	83 x 40 x 42
20-034-05	BHBH	50	19 (0.90)	1.13 (29)	705 (1,050)	5,000 (1,524)	4,320 (1,960)	83 x 40 x 42
20-038-05	BHBH	100	19 (0.90)	1.50 (38)	1,280 (1,905)	3,300 (1,006)	5,020 (2,275)	83 x 40 x 42
20-062-05	BHAH	25	22 (0.64)	0.72 (18)	260 (385)	15,000 (4,572)	4,695 (2,130)	83 x 40 x 42
20-065-05	BHAH	50	22 (0.64)	0.90 (23)	425 (630)	10,000 (3,048)	5,045 (2,290)	83 x 40 x 42
20-069-05	внан	100	22 (0.64)	1.15 (29)	715 (1,065)	7,500 (2,286)	6,160 (2,795)	83 x 40 x 42
20-073-05	BHAH	200	22 (0.64)	1.54 (39)	1,300 (1,935)	3,750 (1,143)	5,670 (2,570)	83 x 40 x 42
20-075-05	BHAH	300	22 (0.64)	1.83 (47)	1,865 (2,775)	3,300 (1,006)	6,950 (3,150)	83 x 40 x 42
20-077-05	BHAH	400	22 (0.64)	2.05 (52)	2,405 (3,580)	2,000 (610)	5,605 (2,540)	83 x 40 x 42
20-081-05	BHAH	600	22 (0.64)	2.48 (63)	3,515 (5,230)	1,250 (381)	5,190 (2,355)	83 x 40 x 42
20-083-05	BHAH	900	22 (0.64)	2.96 (75)	5,110 (7,605)	1,100 (335)	6,415 (2,910)	83 x 40 x 42
20-097-05	вкмн	25	24 (0.51)	0.63 (16)	195 (290)	20,000 (6,096)	4,695 (2,130)	83 x 40 x 42
20-100-05	вкмн	50	24 (0.51)	0.76 (19)	300 (445)	13,300 (4,054)	4,785 (2,170)	83 x 40 x 4
20-104-05	вкмн	100	24 (0.51)	0.97 (25)	500 (745)	10,000 (3,048)	5,795 (2,630)	83 x 40 x 4
20-108-05	вкмн	200	24 (0.51)	1.24 (32)	860 (1,280)	6,600 (2,012)	6,470 (2,935)	83 x 40 x 4
20-110-05	вкмн	300	24 (0.51)	1.49 (38)	1,240 (1,845)	4,400 (1,341)	6,250 (2,835)	83 x 40 x 4
20-112-05	вкмн	400	24 (0.51)	1.68 (43)	1,595 (2,375)	3,300 (1,006)	6,060 (2,750)	83 x 40 x 4
20-116-05	вкмн	600	24 (0.51)	1.99 (51)	2,290 (3,410)	2,500 (762)	6,520 (2,955)	83 x 40 x 4
20-118-05	вкмн	900	24 (0.51)	2.38 (61)	3,335 (4,965)	1,600 (488)	6,130 (2,780)	83 x 40 x 4
20-120-05	вкмн	1,200	24 (0.51)	2.72 (69)	4,355 (6,480)	1,100 (335)	5,585 (2,535)	83 x 40 x 4
20-121-05	вкмн	1,500	24 (0.51)	2.99 (76)	5,350 (7,960)	1,100 (335)	6,680 (3,030)	83 x 40 x 4
20-124-05	вкмн	1,800	24 (0.51)	3.25 (83)	6,340 (9,435)	800 (244)	5,865 (2,660)	83 x 40 x 42
20-145-05	BKTH	300	26 (0.40)	1.20 (31)	820 (1,220)	6,600 (2,012)	6,205 (2,815)	83 x 40 x 42
20-147-05	BKTH	400	26 (0.40)	1.40 (36)	1,075 (1,600)	5,000 (1,524)	6,170 (2,800)	83 x 40 x 42
20-151-05	BKTH	600	26 (0.40)	1.64 (42)	1,520 (2,260)	3,300 (1,006)	5,810 (2,635)	83 x 40 x 42
20-153-05	вктн	900	26 (0.40)	1.93 (49)	2,175 (3,235)	2,600 (792)	6,450 (2,925)	83 x 40 x 4
20-155-05	вктн	1,200	26 (0.40)	2.20 (56)	2,845 (4,235)	2,200 (671)	7,055 (3,200)	83 x 40 x 42
20-156-05	BKTH	1,500	26 (0.40)	2.45 (62)	3,490 (5,195)	1,600 (488)	6,380 (2,895)	83 x 40 x 42
20-157-05	BKTH	1,800	26 (0.40)	2.66 (68)	4,135 (6,155)	1,300 (396)	6,170 (2,800)	83 x 40 x 4
20-158-05	вктн	2,100	26 (0.40)	2.85 (72)	4,770 (7,100)	1,140 (347)	6,235 (2,825)	83 x 40 x 4
20-159-05	вктн	2,400	26 (0.40)	3.05 (80)	5,465 (8,141)	1,100 (335)	7,012 (3,183)	83 x 40 x 4
20-161-05	BKTH	2,700	26 (0.40)	3.18 (81)	6,015 (8,950)	1,140 (347)	7,650 (3,470)	83 x 40 x 4

INDEX



BHAS and BKMS

SPECIFICATIONS Conductor

Insulation

≤ 25-Pair Core

> 50-Pair Core

Support Member

Jacket Marking

Core Wrap

Shield

lacket



Solid annealed copper

pair identification

Black polyethylene

non-hygroscopic binders

Non-hygroscopic dielectric material

longitudinally over the core wrap

handset printed at 2 foot intervals

Telcordia[®] GR-421-CORE Issue 2

Solid polyolefin in distinctive colors to facilitate

Corrugated, 8 mil coated aluminum tape applied

Multiples of 25-pair groups are assembled to form the

final cable core; each group is identified by color coded

0.25 inch, 7-strand Extra High-Strength (EHS) galvanized

steel member, fully flooded, serves as the support member and is an integral part of the sheath

Manufacturer's identification, pair count, AWG, product

identification, sequential footage and a telephone

Pairs are combined into a cylindrical core

PRODUCT DESCRIPTION

Self-Support Cable is a solid insulated, single jacket air core design with a built-in support member intended specifically for aerial applications. The undulated, shielded core is laid parallel to a flooded steel support member and jacketed in an integral extrusion to form a "figure 8" configuration. The supporting member is an integral part of the cable sheath yet readily available for gripping, pulling and tensioning. Installation is fast and easy using standard methods and hardware.

APPLICATIONS

Aerial

Acital	
FEATURES	BENEFITS
 Tightly controlled individual conductor dimensions 	 Limits resistance unbalance of paired conductors
 Specially designed pair twist lays 	 Minimizes crosstalk and meets the capacitance unbalance requirements
Undulated core assembly	 Eliminates strain on the conductors and provides sufficient slack during installation
Core wrap	 Protects the core and helps provide core-to-shield dielectric strength
 Fully flooded steel support member 	Provides corrosion protection
 Polyethylene jacket 	 Provides tough, flexible, protective covering that withstands exposure to sunlight, atmospheric temperatures and stresses expected in standard installations

Standards Compliance RoHS-compliant Telcordia is a registered trademark of Ericsson Inc.

ELECTRICAL SPECIFICATIONS

	Average Mutual		Capacitance Unbalance Pair to Pair @ 1 kHz		Capacitance Unbalance Pair to Ground @ 1 kHz				
Number of Pairs	Capacitance @ 1,000	Hz Maximum Individua pF @ 1 kft (pF @ 1 km		Maximum Individual pF @ 1 kft (pF @ 1 km)		Maximum Average pF @ 1 kft (pF @ 1 km)			
Over 12	83 + 4, - 5 (52 + 2, -	3) 80 (145)	25 (45)	80	00 (2,625)	175 (574)			
	Minimum Insulation	Maximum Average Attenuation	Maximum Conductor Resistance @ 68°F (20°C)		nce Unbalance mum %	Dielectric DC Potenti			
Conductor Size AWG (mm)	Resistance @ 68°F (20°C) gigohm-mile (gigohm-km)	772 kHz @ 68°F (20°C) dB/kft (dB/km)	Ohms/sheath mile (km)	Average	Individual Pair	Conductor to Conductor	Conductor to Shield		
22 (0.64)	1.0 (1.6)	4.7 (15.4)	91 (56.5)	1.5	5.0	4,000	10,000		
24 (0.51)	1.0 (1.6)	5.9 (19.4)	144 (89.5)	1.5	5.0	3,000	10,000		
	Minimum	Near End Crosstalk (NEXT) @ 772 kHz			Mi	nimum Far End C (FEXT) @ 772			
PSWUNEXT N	Mean (dB)	47	Conductor Siz	e (AWG)	2	22	24		
PSWUNEXT Wo	PSWUNEXT Worst Pair (dB)		PSELFEXT Mea	PSELFEXT Mean (dB/kft)		19	49		

	-	
Conductor Size (AWG)	22	24
PSELFEXT Mean (dB/kft)	49	49
PSELFEXT Worst Pair (dB/kft)	43	43

NUMBERS AND PHYSICAL CHARACTERI

	Nominal Diameter				Approx. Shipping	Steel Reel Size				
Part Number	Product Code	Pair Count	AWG (mm)	Cable only in (mm)	W/Messenger in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Weight Ibs (kg)	F x T x D in	
20-062-43	BHAS	25	22 (0.64)	0.58 (15)	1.05 (27)	310 (461)	10,000 (3,048)	3,895 (1,766)	83 x 40 x 42	
20-065-43	BHAS	50	22 (0.64)	0.74 (19)	1.20 (31)	445 (662)	7,500 (2,286)	4,135 (1,875)	83 x 40 x 42	
20-069-43	BHAS	100	22 (0.64)	1.00 (25)	1.47 (37)	705 (1,049)	6,000 (1,829)	5,025 (2,279)	83 x 40 x 42	
20-097-43	BKMS	25	24 (0.51)	0.49 (12)	0.96 (24)	260 (387)	13,300 (4,054)	4,255 (1,930)	83 x 40 x 42	
20-100-43	BKMS	50	24 (0.51)	0.62 (16)	1.09 (28)	345 (513)	13,300 (4,054)	5,385 (2,442)	83 x 40 x 42	
20-104-43	BKMS	100	24 (0.51)	0.80 (20)	1.27 (32)	515 (766)	8,000 (2,438)	4,915 (2,229)	83 x 40 x 42	
20-108-43	BKMS	200	24 (0.51)	1.09 (28)	1.56 (40)	840 (1,250)	5,000 (1,524)	4,995 (2,265)	83 x 40 x 42	



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Solid annealed copper

pair identification

non-hygroscopic binders

of the steel are flooded

Black polyethylene

over the core wrap

Non-hygroscopic dielectric material

Solid polyolefin in distinctive colors to facilitate

Multiples of 25-pair groups are assembled to form the

final cable core; each group is identified by color coded

Corrugated, 8 mil aluminum tape is applied longitudinally

over the inner jacket and the inner and outer surfaces

0.25 inch, 7-strand Extra High-Strength (EHS) galvanized

steel member, fully flooded, serves as the support member and is an integral part of the sheath

Manufacturer's identification, pair count, AWG, product

identification, sequential footage and a telephone

handset printed at 2 foot intervals Telcordia[®] GR-421-CORE Issue 2

Polyethylene helps protect the core and shield against

mechanical damage and ingress of moisture Corrugated bare 6 mil steel tape is applied longitudinally

Pairs are combined into a cylindrical core

PRODUCT DESCRIPTION

Reinforced Self-Support Cable is a solid insulated, double jacket, armored, self-supporting air core design intended for aerial installations where hazards from squirrel attack, tree limb abrasion or lightning exist. The undulated, shielded, jacketed core is covered with a flooded steel armor, laid parallel to a flooded steel support member and jacketed in an integral extrusion to form a "figure 8" configuration. The steel strand member is readily available for gripping, pulling and tensioning using standard methods and hardware.

APPLICATIONS

· Aerial installations in harsh environments

FEATURES	BENEFITS
 Tightly controlled individual conductor dimensions 	 Limits resistance unbalance of paired conductors
 Specially designed pair twist lays 	Minimizes crosstalk and meets the capacitance unbalance requirements
Undulated core assembly	Eliminates strain on the conductors and provides sufficient slack during installation
Core wrap	Protects the core and helps provide core-to-shield dielectric strength
Inner polyethylene jacket	 Provides additional protection against mechanic damage and prevents the ingress of moisture
Flooded steel support member	 Provides corrosion protection
Polyethylene jacket	Provides tough, flexible, protective covering that withstands exposure to sunlight, atmospheric

		re to sunlight, atmospheric atures and stresses	Standards Compliance	RoHS-com	pliant	546 2			
	temper		Telcordia is a registered trad	Telcordia is a registered trademark of Ericsson Inc.					
LECTRICAL SPECIF	ICATIONS								
	Average Mutual		Capacitance Unbalance Pair to Pair @ 1 kHz		Capacitance Unbalance Pair to Ground @1kHz				
Number of Pairs	Capacitance @ 1,000	Hz Maximum Individual pF @ 1 kft (pF @ 1 km			num Individual kft (pF @ 1 km)		m Average (pF @ 1 km)		
Over 12	83 + 4, - 5 (52 ± 2, -	3) 80 (145)	25 (45)	80)0 (2,625)	175	(574)		
	Minimum Insulation	Maximum Average Attenuation	Maximum Conductor Resistance @ 68°F (20°C)		ice Unbalance mum %	Dielectric DC Potenti	0		
Conductor Size AWG (mm)	Resistance @ 68°F (20°C) gigohm-mile (gigohm-km)	772 kHz @ 68°F (20°C) dB/kft (dB/km)	Ohms/sheath mile (km)	Average	Individual Pair	Conductor to Conductor	Conductor to Shield		
22 (0.64)	1.0 (1.6)	4.7 (15.4)	91 (56.5)	1.5	5.0	4,000	10,000		
24 (0.51)	1.0 (1.6)	5.9 (19.4)	144 (89.5)	1.5	5.0	3,000	10,000		
26 (0.40)	1.0 (1.6)	7.4 (24.3)	232 (144.2)	1.5	5.0	2,400	10,000		
	Minimur	n Near End Crosstalk (NEXT) @ 772 kHz			Minim	um Far End Cros @ 772 kHz			

SPECIFICATIONS

Conductor

Insulation

≤ 25-Pair Core

> 50-Pair Core

Core Wrap

Inner Jacket

Support Member

Outer Jacket

Jacket Marking

Standards Compliance

Conductor Size (AWG)

PSELFEXT Mean (dB/kft)

PSELFEXT Worst Pair (dB/kft)

Shield

Armor

ADT NUMBERS AND REVSICAL CHARACTERISTI

PSWUNEXT Mean (dB)

PSWUNEXT Worst Pair (dB)

PART NUMBE	KS AND PHYSIC.	AL CHARACTE	RISTICS						
		Nominal Diameter			Approx. Shipping	Steel Reel Size			
Part Number	Product Code	Pair Count	AWG (mm)	Cable only in (mm)	W/Messenger in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Weight Ibs (kg)	F x T x D in
20-062-20	BHAP	25	22 (0.64)	0.87 (22)	1.33 (34)	455 (675)	10,000 (3,048)	4,200 (1,905)	83 x 40 x 42
20-065-20	BHAP	50	22 (0.64)	1.05 (27)	1.51 (38)	625 (930)	7,500 (2,286)	4,465 (2,025)	83 x 40 x 42
20-069-20	BHAP	100	22 (0.64)	1.30 (33)	1.76 (45)	940 (1,400)	5,000 (1,524)	4,475 (2,029)	83 x 40 x 42
20-097-20	BKMP	25	24 (0.51)	0.83 (21)	1.29 (33)	400 (595)	10,000 (3,048)	4,345 (1,971)	83 x 40 x 42
20-100-20	BKMP	50	24 (0.51)	0.94 (24)	1.40 (36)	510 (760)	10,000 (3,048)	5,445 (2,469)	83 x 40 x 42
20-104-20	BKMP	100	24 (0.51)	1.13 (29)	1.59 (40)	715 (1,065)	5,000 (1,524)	4,145 (1,880)	83 x 40 x 42
20-108-20	BKMP	200	24 (0.51)	1.42 (36)	1.88 (48)	1,120 (1,665)	4,000 (1,220)	4,995 (2,265)	83 x 40 x 42
20-145-20	ВКТР	300	26 (0.40)	1.35 (34)	1.81 (46)	1,045 (1,555)	3,300 (1,010)	4,110 (1,864)	83 x 40 x 42

47

42





24

49

43

26

47

43

22

49

43

Rev 7/15

Bonded STALPETH

DCAZ, DCMZ and DCTZ



PRODUCT DESCRIPTION

Bonded STALPETH Cable is a foam skin insulated, single jacket, armored air core design intended for use in ducts to provide more efficient duct utilization than standard PIC designs.

APPLICATIONS

Congested underground duct systems

		FEATURES	BENEFITS
SPECIFICATIONS	5	 Tightly controlled individual conductor dimensions 	 Limits resistance unbalance of paired conductors
Conductor	Solid annealed copper		
nsulation	Conductors are dual insulated with an inner layer of foamed, natural polyolefin covered by an outer layer of solid, colored polyolefin; conductor insulation is color coded in	Specially designed pair twist lays	 Minimizes crosstalk and meets the capacitance unbalance requirements
	accordance with industry standard	 Core wrap 	 Protects the core and helps provid
	Multiples of 25-pair groups are assembled to form the final		core-to-shield dielectric strength
50-Pair Core	cable core; each group is identified by color coded non-hygroscopic binders; for 1,200-pair and larger, the color code is Mirror Image design	Aluminum tape shield	 Assures good electrical contact with non-piercing bonding clamps
Core Wrap	Non-hygroscopic dielectric material	Steel tape armor bonded	Protects the core from
hield	Corrugated bare 8 mil aluminum tape applied longitudinally over the core wrap	to outer jacket	mechanical damage and reduces the possibility of tape buckling during installation, ingress of
Armor	Corrugated, copolymer coated, 6 mil steel tape applied over the aluminum shield and bonded to the outer jacket		water to the aluminum shield and of water along the cable betweer
lacket	Black polyethylene		the armor and outer jacket
acket Marking	Manufacturer's identification, pair count, AWG, product identification and a telephone handset printed at 2 foot intervals; sequential footage markings are printed at alternate 2 foot intervals	Polyethylene jacket	 Provides a tough, flexible, protective covering that withstands exposure to sunlight, atmospheric temporatures
Standards Compliance	Telcordia® GR-421-CORE Issue 2 RoHS-compliant		atmospheric temperatures, ground chemicals and stresses expected in standard installation

ELECTRICAL SPECIFICATIONS

	Average Mutual		e Unbalance ir @ 1 kHz	Capacitance Unbalance Pair to Ground @ 1 kHz		
Number of Pairs	Capacitance @ 1,000 Hz nF/mile (nF/km)	Maximum Individual pF @ 1 kft (pF @ 1 km)	Maximum RMS pF @ 1 kft (pF @ 1 km)	Maximum Individual pF @ 1 kft (pF @ 1 km)	Maximum Average pF @ 1 kft (pF @ 1 km)	
All pairs	83 ± 4 (52 ± 2)	80 (145)	25 (45)	800 (2,625)	175 (574)	

	Maximum Average		Maximum Conductor	DC Resistance Unbalance Maximum %		Dielectric Strength DC Potential - Volts	
Conductor Size AWG (mm)	Minimum Insulation Resistance @ 68°F (20°C) gigohm-mile (gigohm-km)	AttenuationResistance @ 68°F (20°C)772 kHz @ 68°F (20°C)Ohms/sheathdB/kft (dB/km)mile (km)		Average	Individual Pair	Conductor to Conductor	Conductor to Shield
22 (0.64)	1.0 (1.6)	5.0 (16.4)	91 (56.5)	1.5	5.0	1,400	5,000
24 (0.51)	1.0 (1.6)	6.3 (20.7)	144 (89.5)	1.5	5.0	1,200	5,000
26 (0.40)	1.0 (1.6)	7.9 (25.9)	232 (144.2)	1.5	5.0	1,000	5,000

	Minimum Near End Crosstalk (NEXT) @ 772 kHz
PSWUNEXT Mean (dB)	47
PSWUNEXT Worst Pair (dB)	42

	Minimum Far End Crosstalk (FEXT) @ 772 kHz				
Conductor Size (AWG)	22	24	26		
PSELFEXT Mean (dB/kft)	49	49	47		
PSELFEXT Worst Pair (dB/kft)	43	43	43		





Bonded STALPETH DCAZ, DCMZ and DCTZ

Part Number	Product Code	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Approx. Shipping Weight Ibs (kg)	Steel Reel Size F x T x D in
19-083-01	DCAZ	900	22 (0.64)	2.49 (63)	4,375 (6,510)	1,600 (488)	7,795 (3,535)	83 x 40 x 42
19-085-01	DCAZ	1,200	22 (0.64)	2.85 (72)	5,770 (8,585)	1,200 (366)	7,720 (3,500)	83 x 40 x 42
19-116-01	DCMZ	600	24 (0.51)	1.70 (43)	1,960 (2,915)	3,900 (1,189)	8,440 (3,830)	83 x 40 x 42
19-118-01	DCMZ	900	24 (0.51)	2.02 (51)	2,860 (4,255)	1,500 (458)	8,275 (3,755)	83 x 40 x 42
19-120-01	DCMZ	1,200	24 (0.51)	2.30 (58)	3,755 (5,590)	2,000 (610)	8,305 (3,765)	83 x 40 x 42
19-121-01	DCMZ	1,500	24 (0.51)	2.57 (65)	4,660 (6,935)	1,600 (488)	8,250 (3,745)	83 x 40 x 42
19-124-01	DCMZ	1,800	24 (0.51)	2.81 (71)	5,545 (8,250)	1,250 (381)	7,725 (3,505)	83 x 40 x 42
19-125-01	DCMZ	2,100	24 (0.51)	3.04 (77)	6,440 (9,585)	1,150 (351)	8,200 (3,720)	83 x 40 x 42
19-126-01	DCMZ	2,400	24 (0.51)	3.22 (82)	7,320 (10,895)	876 (267)	7,205 (3,270)	83 x 40 x 42
19-151-01	DCTZ	600	26 (0.40)	1.38 (35)	1,285 (1,910)	5,700 (1,737)	8,120 (3,685)	83 x 40 x 42
19-153-01	DCTZ	900	26 (0.40)	1.62 (41)	1,850 (2,755)	3,900 (1,189)	8,010 (3,635)	83 x 40 x 4
19-155-01	DCTZ	1,200	26 (0.40)	1.84 (47)	2,420 (3,600)	3,200 (975)	8,540 (3,875)	83 x 40 x 4
19-156-01	DCTZ	1,500	26 (0.40)	2.08 (53)	2,995 (4,455)	2,500 (762)	8,285 (3,755)	83 x 40 x 4
19-157-01	DCTZ	1,800	26 (0.40)	2.26 (57)	3,560 (5,300)	2,080 (634)	8,200 (3,720)	83 x 40 x 4
19-158-01	DCTZ	2,100	26 (0.40)	2.41 (61)	4,115 (6,125)	1,250 (381)	5,940 (2,695)	83 x 40 x 4
19-159-01	DCTZ	2,400	26 (0.40)	2.58 (66)	4,685 (6,970)	1,600 (488)	8,290 (3,760)	83 x 40 x 42
19-161-01	DCTZ	2,700	26 (0.40)	2.71 (69)	5,240 (7,800)	1,250 (381)	7,345 (3,330)	83 x 40 x 4
19-162-01	DCTZ	3,000	26 (0.40)	2.86 (73)	5,800 (8,630)	1,200 (366)	7,755 (3,520)	83 x 40 x 42
19-164-01	DCTZ	3,600	26 (0.40)	3.03 (77)	6,885 (10,245)	1,150 (351)	8,715 (3,950)	83 x 40 x 4
19-167-01	DCTZ	4,200	26 (0.40)	3.26 (83)	7,995 (11,900)	900 (274)	7,990 (3,625)	83 x 40 x 42

PREMISES CABLE TABLE OF CONTENTS

OSP CABLE

FTTP

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DKTN



PRODUCT DESCRIPTION

STEAMPETH Cable is a solid insulated, single jacket, armored air core design intended for use in underground systems where a high incidence of damage could occur if steam enters the duct. The cable is designed for application in high temperature environments up to 230°F (110°C).

APPLICATIONS

FEATURES

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Steam tunnels

BENEFITS

- Solid polypropylene insulation · Provides higher temperature rating Tightly controlled individual . Limits resistance unbalance conductor dimensions of paired conductors Specially designed pair twist lays Minimizes crosstalk and meets the capacitance unbalance requirements • Protects core and helps provide Core wrap core-to-shield dielectric strength · Aluminum tape shield Assures good electrical contact with non-piercing bonding clamps Steel armor bonded Protects the core from mechanical damage and reduces possibility of to the outer jacket tape buckling during installation, ingress of water to the shield and
- Polyethylene jacket
- seepage of water along the cable between the armor and outer jacket Provides a tough, flexible,
- protective covering that withstands exposure to sunlight, above-normal temperatures, ground chemicals and stresses expected during installation

SPECIFICATIONS Conductor Solid annealed copper Solid polypropylene insulation; standard color codes Insulation are used for pair identification Multiples of 25-pair groups are assembled to form the final cable core; each group is identified by color coded Core Assembly non-hygroscopic binders; for 1,200-pair and larger, color coding is Mirror Image Core Wrap Non-hygroscopic dielectric material Corrugated bare 8 mil aluminum tape applied Shield longitudinally over the core wrap Corrugated, copolymer coated, 6 mil steel tape applied Armor over the aluminum shield and bonded to the outer jacket lacket Black, medium density polyethylene Manufacturer's identification, pair count, AWG, product Jacket Marking identification, a telephone handset and sequential footage markings are printed at 2 foot intervals. Standards Compliance Telcordia® GR-110-CORE

Telcordia is a registered trademark of Ericsson Inc.

ELECTRICAL SPECIFICATIONS

	Average Mutual Capacitance @ 1,000 Hz Number of Pairs nF/mile (nF/km)		Capacitance Unbalance Pair to Pair @ 1 kHz				Capacitance Unbalance Pair to Ground @1kHz			
Number				Maximum Individual pF @ 1 kft (pF @ 1 km)		RMS @1km)	Maximum Indivio pF @ 1 kft (pF @ 1		num Average kft (pF @ 1 km)	
All p	pairs	83 ± 4 (5	2 ± 2)	80 (1	45)	25 (45)	800 (2,625)	1	75 (574)
Conductor	Minimur	n Insulation		m Average		m Conductor @ 68°F (20°C)		tance Unbalance aximum %		: Strength tial - Volts
Size AWG (mm)	Resistance	@ 68°F (20°C) e (gigohm-km)	772 kHz @	68°F (20°C) (dB/km)	Ohn	ns/sheath ile (km)	Average	Individual Pair	Conductor to Conductor	Conductor to Shield
26 (0.40)	1.0) (1.6)	7.4	(24.3)	232	2 (144.2)	1.5	5.0	2,400	10,000

	Minimum Near En	d Crosstalk (NEXT)		Minimum Far	End Crosstalk
	@ 150 kHz	@ 772 kHz		@ 150 kHz	@ 772 kHz
PSWUNEXT Mean (dB)	58	47	PSELFEXT Mean (dB/kft)	61	47
PSWUNEXT Worst Pair (dB)	53	42	PSELFEXT Worst Pair (dB/kft)	57	43

FART NOWDERS	AND PHISICAL C	HARACTERISTIC.	5					
Part Number	Product Code	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Approx. Shipping Weight Ibs (kg)	Steel Reel Size F x T x D in
27-145-19	DKTN	300	26 (0.40)	1.11 (28)	750 (1,115)	8,600 (2,621)	7,245 (3,285)	83 x 40 x 42
27-151-19	DKTN	600	26 (0.40)	1.51 (38)	1,395 (2,075)	4,800 (1,463)	7,490 (3,400)	83 x 40 x 42
27-153-19	DKTN	900	26 (0.40)	1.79 (46)	2,015 (3,000)	3,300 (1,006)	7,445 (3,375)	83 x 40 x 42
27-155-19	DKTN	1,200	26 (0.40)	2.04 (52)	2,635 (3,920)	2,120 (646)	6,380 (2,895)	83 x 40 x 42
27-157-19	DKTN	1,800	26 (0.40)	2.50 (64)	3,885 (5,780)	1,650 (503)	7,205 (3,270)	83 x 40 x 42
27-159-19	DKTN	2,400	26 (0.40)	2.87 (73)	5,110 (7,605)	1,250 (381)	7,185 (3,260)	83 x 40 x 42

B-92

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PRODUCT DESCRIPTION

High Potential Filled ASP Cable with solid insulation is a single jacket, filled, armored design intended for applications associated with power substations. This cable provides exceptional durability and resistance to moisture. The finished cable meets all standard electrical requirements plus a 20 kV high voltage test between the conductors and the shield.

BENEFITS

ground chemicals and stresses expected during installation

APPLICATIONS

Power sub stations

FFATURES

 Tightly controlled individual Limits resistance unbalance conductor dimensions of paired conductors Specially designed Minimizes crosstalk and meets pair twist lays the capacitance unbalance requirements • Protects core and provides Core wrap improved mechanical and electrical characteristics • Inner and outer surfaces · Provides a moisture barrier of both aluminum tape and steel and inhibits corrosion tape are flooded with an adhesive compound Polyethylene jacket Provides a tough, flexible, protective covering that withstands exposure to sunlight, above-normal temperatures,

Conductor	Solid annealed copper
Insulation	Color coded solid high dielectric insulation; standard color codes are used for pair identification.
25-Pair Core	Pairs are combined into a cylindrical core
≥ 50-Pair Core	Multiples of 25-pair groups are assembled to form the final cable core; each group is identified by color-coded non-hygroscopic binders
Filling Compound	Entire core assembly is filled with 80°C ETPR compound, filling the air space between the insulated conductors
Core Wrap	Dielectric tape applied over the core
Shields	Corrugated bare 8 mil aluminum tape covered by a corrugated bare 6 mil steel tape applied longitudinally over the core wrap
Jacket	Black polyethylene
Jacket Marking	Manufacturer's ID, pair count, AWG, product ID and telephone handset printed every 2 foot; sequential footage marking printed at 2 foot intervals
Standards Compliance	Telcordia [®] GR-421-CORE Issue 2 RoHS-compliant

Telcordia is a registered trademark of Ericsson Inc.

SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

	Average Mutual		ance Unbalance o Pair @ 1 kHz	Capacitance Unbalance Pair to Ground @ 1 kHz		
Number of Pairs	Capacitance @ 1,000 Hz nF/mile (nF/km)	z Maximum Individual pF @ 1 kft (pF @ 1 km		Maximum Individual pF @ 1 kft (pF @ 1 km)	Maximum Average pF @ 1 kft (pF @ 1 km)	
All pairs	83 ± 4 (52 ± 2)	80 (145)	25 (45)	800 (2,625)	175 (574)	
	Minimum Insulation	Maximum Average Attenuation	Maximum Conductor Resistance @ 68°F (20°C)	DC Resistance Unbalance Maximum %	Dielectric Strength DC Potential - Volts	
onductor Size		772 kHz @ 68°F (20°C)	Ohms/sheath	Individual	Conductor Conduct	

AWG (mm)	gigohm-mile (gigohm-km)	dB/kft (dB/km)	mile (km)	Average	Pair	to Conductor	to Shield
22 (0.64)	1.0 (1.6)	4.0 (13.1)	91 (56.5)	1.5	5.0	5,000	20,000
	Minimum	Near End Creastalk (NEXT)			Mimi	mum Fax Fad Cross	

	Minimum Near End Crosstalk (NEXT) @ 772 kHz		Minimum Far End Crosstalk (FEXT) @ 772 kHz
PSWUNEXT Mean (dB)	47	PSELFEXT Mean (dB/kft)	49
PSWUNEXT Worst Pair (dB)	42	PSELFEXT Worst Pair (dB/kft)	43

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Rev 7/15

Ed 13.0

Part Number	Pair Count	Nominal Diameter in (mm)	Approx. Weight Ibs/kft (kg/km)	Standard Length ft (m)	Approx. Shipping Weight Ibs (kg)	Steel Reel Size F x T x D in
21-062-48	25	0.71 (18)	285 (425)	10,000 (3,048)	3,645 (1,655)	83 x 40 x 42
21-065-48	50	0.93 (24)	495 (735)	10,000 (3,048)	5,745 (2,605)	83 x 40 x 42





ANBA, ANAA, ANMA and ANTA

SPECIFICATIONS	
Conductor	Solid annealed copper
Insulation	Conductors are dual insulated with an inner layer of foamed, natural polyolefin covered by an outer layer of solid, colored polyolefin; conductor insulation is color coded in accordance with industry standard
25-Pair Core	Pairs are combined into a cylindrical core
≥ 50-Pair Core	Multiples of 25-pair groups are assembled to form the final cable core; each group is identified by color coded non-hygroscopic binders; for 1,200-pair and larger, the color code is a Mirror Image design
Filling Compound	Entire core assembly is filled with an 80°C ETPR compound, filling the air space between the insulated conductors
Core Wrap	Dielectric tape applied over the core
Shield	Corrugated bare 8 mil aluminum tape is applied longitudinally over the core wrap; inner and outer surfaces of the aluminum shield are flooded
Jacket	Black, polyethylene
Jacket Marking	Manufacturer's identification, pair count, AWG, product identification, sequential footage and a telephone handset printed at 2 foot intervals
Standards Compliance	Telcordia® GR-421-CORE Issue 2 RoHS-compliant

PRODUCT DESCRIPTION

Filled ALPETH Cable with foam skin insulation is a single jacket, filled design intended for direct burial application. An ETPR compound completely coats each insulated conductor and fills the air space between conductors. The shielding and jacketing combined with the filling and flooding compounds throughout the cable provide exceptional durability and resistance to moisture.

APPLICATIONS

• Direct burial and underground conduit

FEATURES

- BENEFITS Tightly controlled individual Limits resistance unbalance conductor dimensions of paired conductors Specially designed Minimizes crosstalk and meets pair twist lays the capacitance unbalance requirements
- Core wrap
- Polyethylene jacket
- Protects core and provides improved mechanical and electrical characteristics
- Provides a tough, flexible, protective covering that withstands exposure to sunlight, atmospheric temperatures, ground chemicals and stresses expected in standard installation

Telcordia is a registered trademark of Ericsson Inc.

ELECTRICAL SPECIFICATIONS

	Average Mutual		e Unbalance ir @ 1 kHz	Capacitance Unbalance Pair to Ground @1kHz		
Number of Pairs	Capacitance @ 1,000 Hz nF/mile (nF/km)	Maximum Individual pF @ 1 kft (pF @ 1 km)	Maximum RMS pF @ 1 kft (pF @ 1 km)	Maximum Individual pF @ 1 kft (pF @ 1 km)	Maximum Average pF @ 1 kft (pF @ 1 km)	
Over 12	83 ± 4 (52 ± 2)	80 (145)	25 (45)	800 (2,625)	175 (574)	

	Maximum Avera Minimum Insulation Attenuation		Maximum Conductor Resistance @ 68°F (20°C)	DC Resistance Unbalance Maximum %		Dielectric Strength DC Potential - Volts	
	Resistance @ 68°F (20°C) gigohm-mile (gigohm-km)	772 kHz @ 68°F (20°C) dB/kft (dB/km)	Ohms/sheath mile (km)	Average	Individual Pair	Conductor to Conductor	Conductor to Shield
19 (0.90)	1.0 (1.6)	3.2 (10.5)	45 (28.0)	1.5	5.0	4,500	10,000
22 (0.64)	1.0 (1.6)	4.5 (14.8)	91 (56.5)	1.5	5.0	3,600	10,000
24 (0.51)	1.0 (1.6)	5.6 (18.4)	144 (89.5)	1.5	5.0	3,000	10,000
26 (0.40)	1.0 (1.6)	7.0 (23.0)	232 (144.2)	1.5	5.0	2,400	10,000

	Minimum Near End Crosstalk (NEXT) @ 772 kHz
PSWUNEXT Mean (dB)	47
PSWUNEXT Worst Pair (dB)	42

	Minim	um Far End @ 77		(FEXT)
Conductor Size (AWG)	19	22	24	26
PSELFEXT Mean (dB/kft)	51	49	49	47
PSELFEXT Worst Pair (dB/kft)	45	43	43	43



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Part Number	Product Code	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight Ibs/kft (kg/km)	Standard Length ft (m)	Approx. Shipping Weight Ibs (kg)	Steel Reel Size F x T x D in
09-031-77	ANBA	25	19 (0.90)	0.78 (20)	355 (530)	10,000 (3,048)	4,345 (1,970)	83 x 40 x 42
09-034-77	ANBA	50	19 (0.90)	1.03 (26)	655 (975)	5,000 (1,524)	4,070 (1,845)	83 x 40 x 42
09-038-77	ANBA	100	19 (0.90)	1.37 (35)	1,225 (1,825)	3,300 (1,006)	4,840 (2,195)	83 x 40 x 42
09-062-77	ANAA	25	22 (0.64)	0.60 (15)	200 (300)	15,000 (4,572)	3,795 (1,720)	83 x 40 x 42
09-065-77	ANAA	50	22 (0.64)	0.77 (20)	350 (520)	15,000 (4,572)	6,045 (2,740)	83 x 40 x 42
09-069-77	ANAA	100	22 (0.64)	1.02 (26)	645 (960)	7,500 (2,286)	5,635 (2,555)	83 x 40 x 42
09-073-77	ANAA	200	22 (0.64)	1.38 (35)	1,225 (1,825)	5,000 (1,524)	6,920 (3,140)	83 x 40 x 42
09-075-77	ANAA	300	22 (0.64)	1.65 (42)	1,800 (2,680)	3,300 (1,006)	6,735 (3,055)	83 x 40 x 42
09-077-77	ANAA	400	22 (0.64)	1.88 (48)	2,365 (3,520)	2,500 (762)	6,710 (3,045)	83 x 40 x 42
09-081-77	ANAA	600	22 (0.64)	2.28 (58)	3,500 (5,210)	1,650 (503)	6,570 (2,980)	83 x 40 x 42
09-083-77	ANAA	900	22 (0.64)	2.76 (70)	5,190 (7,725)	1,000 (305)	5,985 (2,715)	83 x 40 x 42
09-097-77	ANMA	25	24 (0.51)	0.52 (13)	140 (210)	20,000 (6,096)	3,595 (1,630)	83 x 40 x 42
09-100-77	ANMA	50	24 (0.51)	0.66 (17)	240 (355)	20,000 (6,096)	5,595 (2,540)	83 x 40 x 42
09-104-77	ANMA	100	24 (0.51)	0.85 (22)	430 (640)	10,000 (3,048)	5,095 (2,310)	83 x 40 x 42
09-108-77	ANMA	200	24 (0.51)	1.14 (29)	810 (1,205)	5,000 (1,524)	4,845 (2,200)	83 x 40 x 42
09-110-77	ANMA	300	24 (0.51)	1.37 (35)	1,180 (1,755)	5,000 (1,524)	6,695 (3,035)	83 x 40 x 42
09-112-77	ANMA	400	24 (0.51)	1.55 (39)	1,545 (2,300)	4,000 (1,219)	6,975 (3,165)	83 x 40 x 42
09-116-77	ANMA	600	24 (0.51)	1.88 (48)	2,285 (3,400)	2,500 (762)	6,510 (2,950)	83 x 40 x 42
09-118-77	ANMA	900	24 (0.51)	2.25 (57)	3,345 (4,980)	1,650 (503)	6,315 (2,865)	83 x 40 x 42
09-120-77	ANMA	1,200	24 (0.51)	2.58 (66)	4,430 (6,595)	1,250 (381)	6,335 (2,870)	83 x 40 x 42
09-121-77	ANMA	1,500	24 (0.51)	2.87 (73)	5,510 (8,200)	1,000 (305)	6,305 (2,860)	83 x 40 x 42
09-124-77	ANMA	1,800	24 (0.51)	3.13 (80)	6,590 (9,805)	840 (256)	6,330 (2,870)	83 x 40 x 42
09-125-77	ANMA	2,100	24 (0.51)	3.40 (86)	7,725 (11,495)	750 (229)	6,590 (2,990)	83 x 40 x 42
09-145-77	ANTA	300	26 (0.40)	1.09 (28)	755 (1,125)	6,000 (1,829)	5,325 (2,415)	83 x 40 x 42
09-147-77	ANTA	400	26 (0.40)	1.25 (32)	995 (1,480)	5,000 (1,524)	5,770 (2,615)	83 x 40 x 42
09-151-77	ANTA	600	26 (0.40)	1.49 (38)	1,450 (2,160)	3,300 (1,006)	5,580 (2,530)	83 x 40 x 42
09-153-77	ANTA	900	26 (0.40)	1.78 (45)	2,120 (3,155)	2,500 (762)	6,095 (2,765)	83 x 40 x 42
09-155-77	ANTA	1,200	26 (0.40)	2.03 (52)	2,790 (4,150)	2,000 (610)	6,375 (2,890)	83 x 40 x 42
09-156-77	ANTA	1,500	26 (0.40)	2.28 (58)	3,490 (5,195)	1,300 (396)	5,330 (2,420)	83 x 40 x 42
09-157-77	ANTA	1,800	26 (0.40)	2.49 (63)	4,165 (6,200)	1,250 (381)	6,000 (2,720)	83 x 40 x 42
09-158-77	ANTA	2,100	26 (0.40)	2.69 (68)	4,870 (7,250)	1,200 (366)	6,640 (3,010)	83 x 40 x 42
09-159-77	ANTA	2,400	26 (0.40)	2.86 (73)	5,535 (8,235)	1,000 (305)	6,330 (2,870)	83 x 40 x 42

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SPECIFICATIONS Conductor Solid annealed copper Insulation Conductors are dual insulated with an inner layer foamed, natural polyolefin covered by an outer of solid, colored polyolefin; conductor insulatio color coded in accordance with industry stand. 25-Pair Core Pairs are combined into a cylindrical core > 50-Pair Core Multiples of 25-pair groups are assembled to form final cable core; each group is identified by col non-hygroscopic binders; for 1,200-pair and la color code is a Mirror Image design Filling Compound Core assembly is completely filled with an 80°C ETPR compound, filling the air space between the insulated conductors Core Wrap Dielectric tape applied over the core	
Conductor Solid annealed copper Insulation Conductors are dual insulated with an inner layer foamed, natural polyolefin covered by an outer of solid, colored polyolefin; conductor insulatio color coded in accordance with industry stand. 25-Pair Core Pairs are combined into a cylindrical core > 50-Pair Core Multiples of 25-pair groups are assembled to form final cable core; each group is identified by coh non-hygroscopic binders; for 1,200-pair and la color code is a Mirror Image design Filling Compound Core assembly is completely filled with an 80°C ETPR compound, filling the air space between the insulated conductors	
Insulation Conductors are dual insulated with an inner layer foamed, natural polyolefin covered by an outer of solid, colored polyolefin; conductor insulatio color coded in accordance with industry stand. 25-Pair Core Pairs are combined into a cylindrical core > 50-Pair Core Multiples of 25-pair groups are assembled to form final cable core; each group is identified by colon on-hygroscopic binders; for 1,200-pair and la color code is a Mirror Image design Filling Compound Core assembly is completely filled with an 80°C ETPR compound, filling the air space between the insulated conductors	
Insulation foamed, natural polyolefin covered by an outer of solid, colored polyolefin; conductor insulatio color coded in accordance with industry stand. 25-Pair Core Pairs are combined into a cylindrical core ≥ 50-Pair Core Multiples of 25-pair groups are assembled to form final cable core; each group is identified by color on-hygroscopic binders; for 1,200-pair and la color code is a Mirror Image design Filling Compound Core assembly is completely filled with an 80°C ETPR compound, filling the air space between the insulated conductors	
 ≥ 50-Pair Core Multiples of 25-pair groups are assembled to form final cable core; each group is identified by colnon-hygroscopic binders; for 1,200-pair and la color code is a Mirror Image design Filling Compound Core assembly is completely filled with an 80°C ETPR compound, filling the air space between the insulated conductors 	layer n is
 ≥ 50-Pair Core final cable core; each group is identified by collon-hygroscopic binders; for 1,200-pair and la color code is a Mirror Image design Filling Compound Core assembly is completely filled with an 80°C ETPR compound, filling the air space between the insulated conductors 	
Filling Compound ETPR compound, filling the air space between the insulated conductors	or coded
Core Wran Dielectric tane applied over the core	
Dielectric tape applied over the core	
Shields Corrugated bare 8 mil aluminum tape covered by corrugated bare 6 mil steel tape applied longit over the core wrap	
Jacket Black, polyethylene	
Jacket Marking Manufacturer's identification, pair count, AWG, p identification, sequential footage and a telepho handset printed at 2 foot intervals	
Standards Compliance Telcordia® GR-421-CORE Issue 2 RoHS-compliant	

PRODUCT DESCRIPTION

FILLED ASP Cable with foam skin insulation is a single jacket, armored, filled design intended for direct burial applications in high risk areas. An ETPR compound completely coats each insulated conductor and fills the air space between conductors. The shielding, armoring and jacketing combined with the filling and flooding compounds throughout the cable, provide exceptional durability and resistance to moisture.

BENEFITS

APPLICATIONS

Direct burial

FEATURES

- Tightly controlled individual conductor dimensions
- Specially designed pair twist lays
- Inner and outer surfaces of both aluminum tape and steel tape are flooded
- Core wrap .
- Polyethylene jacket

- Limits resistance unbalance of paired conductors Minimizes crosstalk and meets
- the capacitance unbalance requirements
- Provides a barrier to moisture and inhibits corrosion
- Protects core and provides improved mechanical and electrical characteristics
- Provides a tough, flexible, protective covering that withstands exposure to sunlight, atmospheric temperatures, ground chemicals and stresses expected in standard installation

ELECTRICAL SPECIFICATIONS

	Average Mutual	•	Capacitance Unbalance Pair to Pair @ 1 kHz			Capacitance Unbalance Pair to Ground @ 1 kHz			
Number of Pairs	Capacitance @ 1,000 Hz	z Maximum Individual pF @ 1 kft (pF @ 1 km)			num Individual kft (pF @ 1 km)		m Average (pF @ 1 km)		
Over 12	83 ± 4 (52 ± 2)	80 (145)	25 (45)	80	0 (2,625)	175	(574)		
	Minimum Insulation	Maximum Average Attenuation	Maximum Conductor Resistance @ 68°F (20°C)		ce Unbalance num %	Dielectric DC Potenti	0		
Conductor Size		772 kHz @ 68°F (20°C)	Ohms/sheath	Average	Individual	Conductor	Conducto		

AWG (mm)	gigohm-mile (gigohm-km)	dB/kft (dB/km)	mile (km)	Average	Pair	to Conductor	to Shield
19 (0.90)	1.0 (1.6)	3.2 (10.5)	45 (28.0)	1.5	5.0	4,500	10,000
22 (0.64)	1.0 (1.6)	4.5 (14.8)	91 (56.5)	1.5	5.0	3,600	10,000
24 (0.51)	1.0 (1.6)	5.6 (18.4)	144 (89.5)	1.5	5.0	3,000	10,000
26 (0.40)	1.0 (1.6)	7.0 (23.0)	232 (144.2)	1.5	5.0	2,400	10,000

	Minimum Near End Crosstalk (NEXT) @ 772 kHz
PSWUNEXT Mean (dB)	47
PSWUNEXT Worst Pair (dB)	42

	Minim	um Far End @ 77	Crosstalk 2 kHz	(FEXT)
Conductor Size (AWG)	19	22	24	26
PSELFEXT Mean (dB/kft)	51	49	49	47
PSELFEXT Worst Pair (dB/kft)	45	43	43	43



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Part Number	Product Code	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight Ibs/kft (kg/km)	Standard Length ft (m)	Approx. Shipping Weight Ibs (kg)	Steel Reel Size F x T x D in
22-031-83	ANBW	25	19 (0.90)	0.81 (21)	410 (610)	10,000 (3,048)	4,895 (2,220)	83 x 40 x 42
22-034-83	ANBW	50	19 (0.90)	1.07 (27)	735 (1,095)	5,000 (1,524)	4,470 (2,030)	83 x 40 x 42
22-038-83	ANBW	100	19 (0.90)	1.41 (36)	1,340 (1,995)	5,000 (1,524)	7,495 (3,400)	83 x 40 x 42
22-042-83	ANBW	200	19 (0.90)	1.96 (50)	2,570 (3,825)	2,000 (610)	5,935 (2,690)	83 x 40 x 42
22-044-83	ANBW	300	19 (0.90)	2.35 (60)	3,740 (5,565)	1,650 (503)	6,965 (3,160)	83 x 40 x 42
22-062-83	ANAW	25	22 (0.64)	0.63 (16)	240 (355)	18,000 (5,486)	5,115 (2,320)	83 x 40 x 42
22-065-83	ANAW	50	22 (0.64)	0.80 (20)	405 (605)	15,000 (4,572)	6,870 (3,115)	83 x 40 x 42
22-069-83	ANAW	100	22 (0.64)	1.05 (27)	730 (1,085)	7,500 (2,286)	6,270 (2,845)	83 x 40 x 42
22-073-83	ANAW	200	22 (0.64)	1.42 (36)	1,340 (1,995)	5,000 (1,524)	7,495 (3,400)	83 x 40 x 42
22-075-83	ANAW	300	22 (0.64)	1.69 (43)	1,940 (2,885)	3,300 (1,006)	7,195 (3,265)	83 x 40 x 42
22-077-83	ANAW	400	22 (0.64)	1.92 (49)	2,530 (3,765)	2,500 (762)	7,120 (3,230)	83 x 40 x 42
22-081-83	ANAW	600	22 (0.64)	2.32 (59)	3,705 (5,515)	1,650 (503)	6,910 (3,135)	83 x 40 x 42
22-083-83	ANAW	900	22 (0.64)	2.81 (71)	5,445 (8,105)	1,100 (335)	6,785 (3,075)	83 x 40 x 42
22-085-83	ANAW	1,200	22 (0.64)	3.20 (81)	7,160 (10,655)	834 (254)	6,765 (3,070)	83 x 40 x 4
22-097-83	ANMW	25	24 (0.51)	0.55 (14)	175 (260)	20,000 (6,096)	4,295 (1,950)	83 x 40 x 4
22-100-83	ANMW	50	24 (0.51)	0.69 (18)	290 (430)	20,000 (6,096)	6,595 (2,990)	83 x 40 x 4
22-104-83	ANMW	100	24 (0.51)	0.88 (22)	500 (745)	13,300 (4,054)	7,445 (3,375)	83 x 40 x 4
22-108-83	ANMW	200	24 (0.51)	1.18 (30)	900 (1,340)	6,600 (2,012)	6,735 (3,055)	83 x 40 x 4
22-110-83	ANMW	300	24 (0.51)	1.41 (36)	1,295 (1,925)	5,000 (1,524)	7,270 (3,300)	83 x 40 x 4
22-112-83	ANMW	400	24 (0.51)	1.59 (40)	1,680 (2,500)	4,000 (1,219)	7,515 (3,410)	83 x 40 x 4
22-116-83	ANMW	600	24 (0.51)	1.92 (49)	2,445 (3,640)	2,500 (762)	6,910 (3,135)	83 x 40 x 42
22-118-83	ANMW	900	24 (0.51)	2.29 (58)	3,545 (5,275)	2,000 (610)	7,885 (3,575)	83 x 40 x 4
22-120-83	ANMW	1,200	24 (0.51)	2.63 (67)	4,670 (6,950)	1,250 (381)	6,635 (3,010)	83 x 40 x 4
22-121-83	ANMW	1,500	24 (0.51)	2.92 (74)	5,775 (8,595)	1,000 (305)	6,570 (2,980)	83 x 40 x 4
22-124-83	ANMW	1,800	24 (0.51)	3.18 (81)	6,880 (10,240)	950 (290)	7,330 (3,325)	83 x 40 x 4
22-125-83	ANMW	2,100	24 (0.51)	3.45 (88)	8,045 (11,975)	940 (287)	8,960 (4,065)	83 x 40 x 4
22-145-83	ANTW	300	26 (0.40)	1.13 (29)	840 (1,250)	6,000 (1,829)	5,835 (2,645)	83 x 40 x 42
22-147-83	ANTW	400	26 (0.40)	1.29 (33)	1,100 (1,635)	6,000 (1,829)	7,395 (3,355)	83 x 40 x 4
22-151-83	ANTW	600	26 (0.40)	1.53 (39)	1,580 (2,350)	4,000 (1,219)	7,115 (3,225)	83 x 40 x 42
22-153-83	ANTW	900	26 (0.40)	1.83 (47)	2,275 (3,385)	2,500 (762)	6,485 (2,940)	83 x 40 x 42
22-155-83	ANTW	1,200	26 (0.40)	2.07 (53)	2,965 (4,415)	2,000 (610)	6,725 (3,050)	83 x 40 x 42
22-156-83	ANTW	1,500	26 (0.40)	2.33 (59)	3,695 (5,500)	1,600 (488)	6,705 (3,040)	83 x 40 x 42
22-157-83	ANTW	1,800	26 (0.40)	2.54 (65)	4,400 (6,550)	1,250 (381)	6,295 (2,855)	83 x 40 x 42
22-158-83	ANTW	2,100	26 (0.40)	2.74 (70)	5,120 (7,620)	1,200 (366)	6,940 (3,150)	83 x 40 x 42
22-159-83	ANTW	2,400	26 (0.40)	2.91 (74)	5,805 (8,640)	1,000 (305)	6,600 (2,995)	83 x 40 x 42
22-161-83	ANTW	2,700	26 (0.40)	3.08 (78)	6,485 (9,650)	740 (226)	5,595 (2,535)	83 x 40 x 42
22-162-83	ANTW	3,000	26 (0.40)	3.24 (82)	7,185 (10,695)	750 (229)	6,185 (2,805)	83 x 40 x 42

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KNAW and KHAH

PRODUCT DESCRIPTION

T-SCREEN® Filled ASP Cable with foam skin insulation is a single jacket, armored, filled design intended for direct burial applications in high risk areas. An ETPR compound completely coats each insulated conductor and fills the air space between conductors. An internal separator screen provides two core compartments for use in T1C PCM applications. The shielding, armor and jacketing combined with the filling and flooding compounds throughout the cable, provide exceptional durability and resistance to moisture.

APPLICATIONS

• Bidirectional, T Carrier digital systems in direct buried installations

FEATURES	BENEFITS
Core wrap	 Protects core and provides improved mechanical and electrical characteristics
Internal screen	 Separates bidirectional conductors to transmit and receive T1 pairs
• Flooded inner and outer surfaces of both tape shields	 Provides a moisture barrier and inhibits corrosion
Polyethylene jacket	 Provides a tough, flexible, protective covering that withstands exposure to sunlight, atmospheric temperatures, ground chemicals and stresses of standard installations

|--|--|

SPECIFICATIONS				
Conductor	Solid annealed copper			
Insulation	Conductors are dual insulated with an inner layer of foamed, natural polyolefin covered by an outer coating of solid, colored polyolefin; conductor insulation is color coded in accordance with industry standard			
Core Assembly	Twisted pairs assembled and equally placed on either side of the T-SCREEN, dividing the core into two electrically isolated compartments			
Core Wrap	Dielectric tape applied over the core			
Screen	Coated 4-mil aluminum tape to separate the cable into two halves			
Shields	Corrugated bare 8-mil aluminum tape covered by a corrugated bare 6 mil steel tape applied longitudinally over the core wrap; inner and outer surfaces of the aluminum shield and steel tape are flooded			
Jacket	Black polyethylene			
Jacket Marking	Manufacturer's ID, pair count, AWG, product ID, sequential footage and a telephone handset printed at 2-foot intervals			
Standards Compliance	Telcordia [®] GR-421-CORE Issue 2 RoHS-compliant			
Telcordia is a registered trademark of Ericsson Inc.				

	Average Mutual	•	e Unbalance iir @ 1 kHz	•	e Unbalance und @ 1 kHz
Number of Pairs	Capacitance @ 1,000 Hz nF/mile (nF/km)	Maximum Individual pF @ 1 kft (pF @ 1 km)	Maximum RMS pF @ 1 kft (pF @ 1 km)	Maximum Individual pF @ 1 kft (pF @ 1 km)	Maximum Average pF @ 1 kft (pF @ 1 km
All pairs	83 ± 4 (52 ± 2)	80 (145)	25 (45)	800 (2,625)	175 (574)

Conductor	Minimum Insulation	Maximum Ave Attenuatio		m Conductor @ 68°F (20°C)		sistance Maximum %		ectric Strengt Potential – Vol	
Size AWG (mm)	Resistance @ 68°F (20°C) gigohm-mile (gigohm-km)	772 kHz @ 68°F dB/kft (dB/k	(20°C) Ohm	s/sheath le (km)	Average	Individual Pair	Conductor to Conductor	Conductor to Shield	Conductor to Screen
22 (0.64)	1.0 (1.6)	4.5 (14.8)	91	(56.5)	1.5	5.0	3,600	10,000	5,000
		Minimum Near En	d Crosstalk (NEXT)				Minimum F	ar End Crossta	alk (FEXT)
		@ 772 kHz	@ 1,600 kHz					@ 772 kHz	
DCIM	UNEXT Mean (dB)	47	-	C	onductor Size	(AWG)		22	
PSVV									
	NEXT Worst Pair (dB)	42	-	PS	ELFEXT Mean	(dB/kft)		49	

PART NUMBERS AND PHYSICAL CHARACTERISTICS

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Part Number	Product Code	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight Ibs/kft (kg/km)	Standard Length ft (m)	Approx. Shipping Weight Ibs (kg)	Steel Reel Size F x T x D in
24-417-83	KNAW	28	22 (0.64)	0.69 (18)	280 (415)	10,000 (3,048)	3,595 (1,630)	83 x 40 x 42
24-440-83	KNAW	54	22 (0.64)	0.95 (24)	510 (760)	10,000 (3,048)	5,895 (2,675)	83 x 40 x 42
24-456-83	KNAW	106	22 (0.64)	1.10 (28)	785 (1,170)	7,500 (2,286)	6,685 (3,030)	83 x 40 x 42
24-440-05	KHAH (T-SCREEN Air Core Design)	54	22 (0.64)	0.98 (25)	475 (705)	7,500 (2,286)	4,360 (1,975)	83 x 40 x 42
24-456-05	KHAH (T-SCREEN Air Core Design)	106	22 (0.64)	1.20 (31)	780 (1,160)	5,000 (1,524)	4,695 (2,130)	83 x 40 x 42
24-493-05	KHAH (T-SCREEN Air Core Design)	210	22 (0.64)	1.60 (41)	1,395 (2,075)	3,300 (1,006)	5,400 (2,450)	83 x 40 x 42
24-564-05	KHAH (T-SCREEN Air Core Design)	418	22 (0.64)	2.12 (54)	2,550 (3,795)	2,000 (610)	5,895 (2,675)	83 x 40 x 42







SPECIFICATIONS Conductor Solid annealed copper Dual-extruded cellular inner layer and color coded solid Insulation polyolefin skin **Twisted Pairs** Insulated conductors twisted to form pairs with varying lays ≤ 25-Pair Core Assembled in concentric layers to form a cylindrical core Assembled from concentrically formed units with 25-pair per unit; these may be stranded into 50-pair or ≥ 50-Pair Core 100-pair groups, which are then cabled to form the complete cylindrical core assembly ≥ 1,200-Pair Core Color code is Mirror Image design PEPJ compound applied to cable core which completely coats each insulated conductor and fills interstices Filling Compound between pairs and units Core Non-hygroscopic core wrap applied over assembled core Flooding Compound Applied to fill all voids under shield Electrically continuous 8 mil flat aluminum shielding tape, with polyolefin film fused and chemically bonded to Shield both sides, applied longitudinally over the core and bonded to the outer jacket Rip cord Placed parallel to core Jacket Black, medium-density polyethylene Manufacturer's identification, date of jacketing, gauge, Jacket Marking pair count, sequential length and cable type marked at 1 meter intervals Standards Compliance RoHS-compliant

PRODUCT DESCRIPTION

Superior Essex CELFIL Cable with foam skin insulation is a single jacketed design for use in duct or direct burial installations.

FEATURES

applied over assembled core

• Rip cord placed parallel to core

Black, medium-density

polyethylene jacket

 Minimizes crosstalk and meets Twisted pairs with varying lays capacitance unbalance limitations Non-hygroscopic core wrap

BENEFITS

- Furnishes mechanical as well as high dielectric protection between shielding and individual conductors
- Facilitates easy jacket removal
- Provides a tough, flexible protective covering that withstands exposure to sunlight, atmospheric temperatures, ground chemicals and stresses expected in standard installations

OSP CABLE

ELECTRICAL SPECIFICATIONS

	Average Mutual		e Unbalance ir @ 1 kHz		e Unbalance und @1kHz
Number of Pairs	Capacitance @ 1,000 Hz nF/mile (nF/km)	Maximum Individual pF @ 1 kft (pF @ 1 km)	Maximum RMS pF @ 1 kft (pF @ 1 km)	Maximum Individual pF @ 1 kft (pF @ 1 km)	Maximum Average pF @ 1 kft (pF @ 1 km)
12 or less	83 ± 7 (52 ± 4)	80 (145)	-	800 (2,625)	-
Over 12	83 ± 4 (52 ± 2)	80 (145)	25 (45)	800 (2,625)	175 (574)

	Minimum Insulation	Maximum Average Attenuation	Maximum Conductor Resistance @ 68°F (20°C)	DC Resistance Unbalance Maximum %		DC Potenti	Dielectric Strength DC Potential – Volts Minimum	
Conductor Size AWG (mm)	Resistance 68°F (20°C) gigohm-mile (gigohm-km)	772 kHz @ 68°F (20°C) dB/kft (dB/km)	Ohms/sheath kft (km)	Average	Individual Pair	Conductor to Conductor	Conductor to Shield	
19 (0.90)	1.0 (1.6)	3.2 (10.5)	8.5 (28.0)	1.5	5.0	4,500	10,000	
22 (0.64)	1.0 (1.6)	4.5 (14.8)	17.3 (56.6)	1.5	5.0	3,600	10,000	
24 (0.51)	1.0 (1.6)	5.6 (18.4)	26.1 (85.5)	1.5	5.0	3,000	10,000	
26 (0.40)	1.0 (1.6)	7.0 (23.0)	44.0 (144.2)	1.5	5.0	2,400	10,000	

	Minimum Near End Crosstalk (NEXT) dB/kft (dB/km)				Minimum Far dB/kft (End Crosstalk dB/km)	
	@ 150 kHz	@ 772 kHz	Conductor Size	PSELFEXT	@ 150 kHz	PSELFEXT @ 7	
PSWUNEXT Mean	58 (190)	47 (154)	AWG (mm)	Mean	Worst Pair	Mean	Worst Pa
PSWUNEXT Worst Pair	53 (174)	42 (138)	19 (0.90)	65 (213)	59 (194)	51 (167)	45 (148)
			22 (0.64)	63 (207)	57 (187)	49 (161)	43 (141
			24 (0.51)	63 (207)	57 (187)	49 (161)	43 (141



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61 (200)

57 (187)

47 (154)

26 (0.40)

43 (141)



ART NUMBERS	AND PHYSICAL C	HARACTERISTIC	s					
Part Number	Product Code	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight Ibs/kft (kg/km)	Standard Length ft (m)	Approx. Shipping Weight Ibs (kg)	Reel Size F x T x D in
85-026-13	BJBB	6	19 (0.90)	0.49 (12)	120 (180)	4,593 (1,400)	660 (300)	44 x 18 x 20
85-028-13	BJBB	12	19 (0.90)	0.58 (15)	190 (285)	4,593 (1,400)	1,040 (470)	46 x 25 x 20
85-031-13	BJBB	25	19 (0.90)	0.77 (20)	355 (530)	7,924 (2,415)	3,100 (1,410)	62 x 30 x 24
85-034-13	BJBB	50	19 (0.90)	1.03 (26)	655 (975)	4,593 (1,400)	3,295(1,500)	62 x 30 x 2
85-038-13	BJBB	100	19 (0.90)	1.37 (35)	1,225 (1,825)	3,002 (915)	3,965 (1,800)	62 x 30 x 24
85-042-13	BJBB	200	19 (0.90)	1.92 (49)	2,420 (3,600)	1,558 (475)	4,385 (1,990)	72 x 35 x 36
85-057-13	BJAB	6	22 (0.64)	0.38 (9.7)	70 (105)	9,186 (2,800)	750 (340)	44 x 18 x 20
85-059-13	BJAB	12	22 (0.64)	0.47 (12)	115 (170)	9,186 (2,800)	1,220 (555)	46 x 25 x 2
85-061-13	BJAB	18	22 (0.64)	0.53 (14)	155 (230)	4,593 (1,400)	820 (370)	44 x 18 x 2
85-062-13	BJAB	25	22 (0.64)	0.60 (15)	200 (300)	9,186 (2,800)	2,080 (945)	58 x 25 x 2
85-065-13	BJAB	50	22 (0.64)	0.76 (19)	350 (520)	6,004 (1,830)	2,345 (1,065)	58 x 25 x 2
85-069-13	BJAB	100	22 (0.64)	1.02 (26)	650 (965)	4,593 (1,400)	3,275 (1,485)	62 x 30 x 24
85-073-13	BJAB	200	22 (0.64)	1.37 (35)	1,225 (1,825)	2,608 (795)	3,565 (1,615)	65 x 30 x 3
85-075-13	BJAB	300	22 (0.64)	1.66 (42)	1,815 (2,700)	2,182 (665)	4,575 (2,075)	72 x 35 x 3
85-077-13	BJAB	400	22 (0.64)	1.88 (48)	2,375 (3,535)	1,952 (595)	5,335 (2,420)	78 x 40 x 3
85-081-13	BJAB	600	22 (0.64)	2.29 (58)	3,545 (5,275)	1,542 (470)	6,165 (2,795)	78 x 40 x 3
85-083-13	BJAB	900	22 (0.64)	2.75 (70)	5,225 (7,775)	854 (260)	5,075 (2,305)	72 x 35 x 3
85-085-13	BJAB	1,200	22 (0.64)	3.18 (81)	6,950 (10,364)	620 (190)	7,113 (3,226)	96 x 42 x 5
85-092-13	BJMB	6	24 (0.51)	0.35 (8.9)	60 (90)	4,593 (1,400)	320 (145)	30 x 18 x 1
85-094-13	BJMB	12	24 (0.51)	0.41 (10)	85 (125)	4,593 (1,400)	455 (205)	36 x 18 x 1
85-097-13	BJMB	25	24 (0.51)	0.52 (13)	140 (210)	4,593 (1,400)	750 (340)	44 x 18 x 2
85-100-13	BJMB	50	24 (0.51)	0.65 (17)	240 (355)	8,792 (2,680)	2,355 (1,070)	58 x 25 x 2
85-104-13	BJMB	100	24 (0.51)	0.84 (21)	430 (640)	6,578 (2,005)	3,115 (1,415)	62 x 30 x 2
85-108-13	BJMB	200	24 (0.51)	1.14 (29)	810 (1,205)	5,232 (1,595)	4,850 (2,205)	72 x 35 x 3
85-110-13	BJMB	300	24 (0.51)	1.36 (35)	1,180 (1,755)	3,724 (1,135)	5,010 (2,270)	72 x 35 x 3
85-112-13	BJMB	400	24 (0.51)	1.55 (39)	1,555 (2,315)	2,888 (880)	5,105 (2,320)	72 x 35 x 3
85-116-13	BJMB	600	24 (0.51)	1.88 (48)	2,305 (3,430)	1,838 (560)	4,850 (2,205)	72 x 35 x 3
85-118-13	BJMB	900	24 (0.51)	2.26 (57)	3,385 (5,040)	1,280 (390)	4,945 (2,250)	72 x 35 x 3
85-120-13	BJMB	1,200	24 (0.51)	2.57 (65)	4,450 (6,625)	1,280 (390)	6,395 (2,905)	78 x 40 x 3
85-121-13	BJMB	1,500	24 (0.51)	2.85 (72)	5,515 (8,210)	1,050 (320)	6,490 (2,950)	78 x 40 x 3
85-124-13	BJMB	1,800	24 (0.51)	3.11 (79)	6,575 (9,785)	688 (210)	5,225 (2,370)	78 x 40 x 3
85-145-13	BJTB	300	26 (0.40)	1.09 (28)	755 (1,125)	2,624 (800)	2,225 (1,010)	58 x 25 x 2
85-147-13	BJTB	400	26 (0.40)	1.25 (32)	995 (1,480)	2,624 (800)	2,855 (1,295)	58 x 25 x 2
85-151-13	BJTB	600	26 (0.40)	1.50 (38)	1,465 (2,180)	1,738 (530)	2,835 (1,285)	62 x 30 x 2
85-153-13	BJTB	900	26 (0.40)	1.79 (46)	2,145 (3,190)	1,722 (525)	3,980 (1,805)	62 x 30 x 2
85-155-13	BJTB	1,200	26 (0.40)	2.03 (52)	2,805 (4,175)	1,264 (385)	4,160 (1,885)	72 x 35 x 3
85-156-13	BJTB	1,500	26 (0.40)	2.29 (58)	3,515 (5,230)	1,246 (380)	4,995 (2,265)	72 x 35 x 3
85-157-13	BJTB	1,800	26 (0.40)	2.50 (64)	4,200 (6,250)	1,214 (370)	5,800 (2,630)	78 x 40 x 3
85-158-13	BJTB	2,100	26 (0.40)	2.69 (68)	4,885 (7,270)	1,182 (360)	6,475 (2,935)	78 x 40 x 3
85-159-13	BJTB	2,400	26 (0.40)	2.85 (72)	5,540 (8,245)	1,000 (305)	6,240 (2,830)	78 x 40 x 3
85-161-13	BJTB	2,700	26 (0.40)	3.01 (77)	6,200 (9,225)	1,000 (305)	6,900 (3,130)	78 x 40 x 3

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BHBB, BHAB, BKMB and BKTB



SPECIFICATIONS	
Conductor	Solid annealed copper
Insulation	Color coded solid polyolefin
Twisted Pairs	Insulated conductors twisted to pairs with varying lays
≤ 25-Pair Core	Assembled in concentric layers to form a cylindrical core
≥ 50-Pair Core	Assembled from concentrically formed units with 25-pair per unit; these may be stranded into 50-pair or 100-pair groups, which are then cabled to form the complete cylindrical core assembly
≥ 1,200-Pair Core	Color code is Mirror Image design
Core Covering	Non-hygroscopic core wrap applied over assembled core
Shield	Electrically continuous 8 mil flat aluminum shielding tape with polyolefin film fused and chemically bonded to both sides; applied longitudinally over the core and bonded to the outer jacket
Jacket	Black, medium-density polyethylene
Jacket Marking	Manufacturer's identification, date of jacketing, gauge, pair count, sequential length and cable type marked at 1 meter intervals
Standards Compliance	RoHS-compliant

PRODUCT DESCRIPTION

FEATURES

Superior Essex ALPETH Cables are designed primarily for aerial use. In this application, the cable must be attached to a support strand (messenger). If the cable is to be placed in a duct, the cable must be pressurized.

BENEFITS

- Twisted pairs with varying lays
- Non-hygroscopic core wrap applied over assembled core
- Black, medium-density polyethylene jacket
- Minimizes crosstalk and meets capacitance unbalance limitations
- Furnishes mechanical as well as high dielectric protection between shielding and individual conductors
- Provides a tough, flexible protective covering that withstands exposure to sunlight, atmospheric temperatures, ground chemicals and stresses expected in standard installations

ELECTRICAL SPECIFICATIONS

	Average Mutual	•	e Unbalance ir @ 1 kHz	•	e Unbalance und @ 1 kHz
Number of Pairs	Capacitance @ 1,000 Hz nF/mile (nF/km)	Maximum Individual pF @ 1 kft (pF @ 1 km)	Maximum RMS pF @ 1 kft (pF @ 1 km)	Maximum Individual pF @ 1 kft (pF @ 1 km)	Maximum Average pF @ 1 kft (pF @ 1 km)
12 or less	83 ± 7 (52 ± 4)	80 (145)	-	800 (2,625)	-
Over 12	83 ± 4 (52 ± 2)	80 (145)	25 (45)	800 (2,625)	175 (574)

	Minimum Insulation	Maximum Average Attenuation	Maximum Conductor Resistance @ 68°F (20°C)	DC Resistance Unbalance Maximum %		Dielectric Strength DC Potential - Volts Minimum	
Conductor Size AWG (mm)	Resistance @ 68°F (20°C) gigohm-mile (gigohm-km)	772 kHz @ 68°F (20°C) dB/kft (dB/km)	Ohms/sheath kft (km)	Average	Individual Pair	Conductor to Conductor	Conductor to Shield
19 (0.90)	1.0 (1.6)	3.3 (10.8)	8.5 (28.0)	1.5	5.0	5,000	10,000
22 (0.64)	1.0 (1.6)	4.7 (15.4)	17.3 (56.6)	1.5	5.0	4,000	10,000
24 (0.51)	1.0 (1.6)	5.9 (19.4)	26.1 (85.5)	1.5	5.0	3,000	10,000
26 (0.40)	1.0 (1.6)	7.4 (24.3)	44.0 (144.2)	1.5	5.0	2,400	10,000

	Minimum Near End Crosstalk (NEXT) dB/kft (dB/km)	
	@ 150 kHz	@ 772 kHz
PSWUNEXT Mean	58 (190)	47 (154)
PSWUNEXT Worst Pair	53 (174)	42 (138)

		Minimum Far dB/kft (
Conductor Size	PSELFEXT	@ 150 kHz	PSELFEXT	Г @ 772 kHz		
AWG (mm)	Mean	Worst Pair	Mean	Worst Pair		
19 (0.90)	65 (213)	59 (194)	51 (167)	45 (148)		
22 (0.64)	63 (207)	57 (187)	49 (161)	43 (141)		
24 (0.51)	63 (207)	57 (187)	49 (161)	43 (141)		
26 (0.40)	61 (200)	57 (187)	47 (154)	43 (141)		



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Canadian ALPETH BHBB, BHAB, BKMB and BKTB

Part Number	Product Code	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Approx. Shipping Weight Ibs (kg)	Reel Size F x T x D in
85-031-01	BHBB	25	19 (0.90)	0.74 (19)	310 (460)	4,593 (1,400)	1,625 (740)	52 x 25 x 20
85-034-01	BHBB	50	19 (0.90)	0.98 (25)	565 (840)	4,593 (1,400)	2,965 (1,345)	65 x 30 x 3
85-038-01	BHBB	100	19 (0.90)	1.31 (33)	1,060 (1,580)	3,002 (915)	3,470 (1,575)	62 x 30 x 2
85-042-01	BHBB	200	19 (0.90)	1.84 (47)	2,075 (3,090)	1,492 (455)	3,385 (1,535)	62 x 30 x 2
85-062-01	BHAB	25	22 (0.64)	0.59 (15)	180 (270)	5,724 (1,745)	1,195 (540)	46 x 25 x 2
85-065-01	BHAB	50	22 (0.64)	0.75 (19)	310 (460)	5,724 (1,745)	2,020 (915)	58 x 25 x 2
85-069-01	BHAB	100	22 (0.64)	1.00 (25)	570 (850)	4,593 (1,400)	2,905 (1,320)	62 x 30 x 2
85-073-01	BHAB	200	22 (0.64)	1.35 (34)	1,080 (1,605)	3,412 (1,040)	4,300 (1,950)	72 x 35 x 3
85-075-01	BHAB	300	22 (0.64)	1.64 (42)	1,595 (2,375)	2,182 (665)	4,095 (1,855)	72 x 35 x 3
85-077-01	BHAB	400	22 (0.64)	1.86 (47)	2,105 (3,135)	2,132 (650)	5,100 (2,315)	72 x 35 x 3
85-081-01	BHAB	600	22 (0.64)	2.27 (58)	3,135 (4,665)	1,410 (430)	5,035 (2,285)	72 x 35 x 3
85-083-01	BHAB	900	22 (0.64)	2.74 (70)	4,640 (6,905)	688 (210)	3,805 (1,725)	72 x 35 x 3
85-097-01	BKMB	25	24 (0.51)	0.50 (13)	125 (185)	4,593 (1,400)	680 (310)	44 x 18 x 2
85-100-01	BKMB	50	24 (0.51)	0.63 (16)	215 (320)	4,593 (1,400)	1,155 (525)	46 x 25 x 2
85-104-01	BKMB	100	24 (0.51)	0.81 (21)	380 (565)	4,593 (1,400)	1,950 (885)	52 x 25 x 2
85-108-01	BKMB	200	24 (0.51)	1.09 (28)	705 (1,050)	4,593 (1,400)	3,605 (1,635)	65 x 30 x 3
85-110-01	BKMB	300	24 (0.51)	1.30 (33)	1,025 (1,525)	1,838 (560)	2,085 (945)	52 x 25 x 2
85-112-01	BKMB	400	24 (0.51)	1.50 (38)	1,355 (2,015)	1,492 (455)	2,265 (1,030)	58 x 25 x 2
85-116-01	BKMB	600	24 (0.51)	1.81 (46)	2,010 (2,990)	1,264 (385)	2,830 (1,285)	62 x 30 x 2
85-118-01	BKMB	900	24 (0.51)	2.17 (55)	2,970 (4,420)	1,182 (360)	4,125 (1,870)	72 x 35 x 3
85-120-01	BKMB	1,200	24 (0.51)	2.49 (63)	3,915 (5,825)	952 (290)	4,340 (1,970)	72 x 35 x 3
85-147-01	вктв	400	26 (0.40)	1.21 (31)	870 (1,295)	2,624 (800)	2,530 (1,145)	58 x 25 x 2
85-151-01	ВКТВ	600	26 (0.40)	1.45 (37)	1,290 (1,920)	2,394 (730)	3,455 (1,570)	65 x 30 x 3
85-153-01	ВКТВ	900	26 (0.40)	1.74 (44)	1,900 (2,830)	1,526 (465)	3,270 (1,485)	65 x 30 x 3
85-157-01	ВКТВ	1,800	26 (0.40)	2.43 (62)	3,705 (5,515)	1,312 (400)	5,560 (2,520)	78 x 40 x 3



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SPECIFICATIONS Conductor Solid annealed copper Conductors are insulated with solid polyolefin in Insulation distinctive colors to facilitate pair identification **Twisted Pairs** Insulated conductors twisted to pairs with varying lays ≤ 25-Pair Core Pairs are combined into a cylindrical core Multiples of 25-pair groups are assembled to form the ≥ 50-Pair Core final cable core; each group is identified by color coded non-hygroscopic binders ≥ 1,200-Pair Core Color code is Mirror Image design Core Wrap Non-hygroscopic dielectric material Inner Jacket Polyethylene Placed between the core wrap and the inner jacket Rip cords and between the inner jacket and shield Electrically continuous 8 mil flat aluminum shielding tape, with polyolefin film fused and chemically bonded to Shield both sides, applied longitudinally over the core and bonded to the outer jacket Outer Jacket Black, medium-density polyethylene Manufacturer's identification, plant location, date of jacketing, pair count, AWG, product identification, sequential length Jacket Marking markings in meters and telephone handset Telcordia[®] GR-421-CORE Standards Compliance ANSI/ICEA S-85-625-2011 RoHS-compliant

PRODUCT DESCRIPTION

Double jacketed air core cable, commonly called "SEALPAP," is a solidinsulated design intended for use in Outside Plant (OSP) where a greater risk of physical damage exists. The inner jacket provides protection to the cable core in the event of severe damage to the outer protective sheath.

FEATURES	BENEFITS
Twisted pairs with varying lays	 Minimizes crosstalk and meets capacitance unbalance limitations
Core wrap	 Protects core and helps provide core-to-shield dielectric strength
Inner jacket	 Provides protection against mechanical damage and helps prevent the ingress of moisture
Outer jacket bonded to shield	 Provides a tough, flexible protective covering that withstands exposure to sunlight, atmospheric temperatures, and stresses expected in standard installations Bonding provides additional moisture resistance

Telcordia is a registered trademark of Ericsson Inc.

ELECTRICAL SPECIFICATIONS

	Average Mutual		e Unbalance ir @ 1 kHz		e Unbalance und @ 1 kHz
Number of Pairs	Capacitance @ 1,000 Hz nF/mile (nF/km)	Maximum Individual pF @ 1 kft (pF @ 1 km)	Maximum RMS pF @ 1 kft (pF @ 1 km)	Maximum Individual pF @ 1 kft (pF @ 1 km)	Maximum Average pF @ 1 kft (pF @ 1 km)
12 or less	83 ± 4 (52 ± 2)	80 (145)	-	800 (2,625)	-
Over 12	83 ± 4 (52 ± 2)	80 (145)	25 (45)	800 (2,625)	175 (574)

	Minimum Insulation	Maximum Average Attenuation	Maximum Conductor Resistance @ 68°F (20°C)		ince Unbalance .imum %	Dielectric DC Potenti Minin	al - Volts
Conductor Size AWG (mm)	Resistance @ 68°F (20°C) gigohm-mile (gigohm-km)	772 kHz @ 68°F (20°C) dB/kft (dB/km)	Ohms/sheath kft (km)	Average	Individual Pair	Conductor to Conductor	Conductor to Shield
19 (0.90)	1.0 (1.6)	3.3 (10.8)	45 (28.0)	1.5	5.0	5,000	20,000
22 (0.64)	1.0 (1.6)	4.7 (15.4)	91 (56.6)	1.5	5.0	4,000	20,000
24 (0.51)	1.0 (1.6)	5.9 (19.4)	144 (89.5)	1.5	5.0	3,000	20,000
26 (0.40)	1.0 (1.6)	7.4 (24.3)	232 (144.2)	1.5	5.0	2,400	20,000

		d Crosstalk (NEXT) (dB/km)			Minimum Far dB/kft (
	@ 150 kHz	@ 772 kHz	Conductor Size	PSELFEXT	@ 150 kHz	PSELFEXT	@ 772 kHz
PSWUNEXT Mean	58 (190)	47 (154)	AWG (mm)	Mean	Worst Pair	Mean	Worst Pair
SWUNEXT Worst Pair	53 (174)	42 (138)	19 (0.90)	65 (213)	59 (194)	51 (167)	45 (148)
			22 (0.64)	63 (207)	57 (187)	49 (161)	43 (141)
			24 (0.51)	63 (207)	57 (187)	49 (161)	43 (141)



61 (200)

57 (187)

47 (154)

26 (0.40)

43 (141)

SEALPAP BHBF, BHAF, BKMF and BKTF

PREMISES CABLE TABLE OF CONTENTS

OSP CABLE

FTTP

WIRELESS

INDEX

Part Number	Product Code	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Approx. Shipping Weight Ibs (kg)	Steel Reel Size F x T x D in
85-031-41	BHBF	25	19 (0.90)	0.84 (21)	355 (530)	9,006 (2,745)	3,990 (1,810)	83 x 40 x 42
85-034-41	BHBF	50	19 (0.90)	1.07 (27)	625 (930)	4,512 (1,375)	3,615 (1,640)	83 x 40 x 42
85-038-41	BHBF	100	19 (0.90)	1.43 (36)	1,170 (1,740)	2,986 (910)	4,290 (1,945)	83 x 40 x 42
85-042-41	BHBF	200	19 (0.90)	1.96 (50)	2,230 (3,320)	2,230 (680)	5,770 (2,615)	83 x 40 x 42
85-062-41	BHAF	25	22 (0.64)	0.68 (17)	215 (320)	5,724 (1,745)	2,025 (920)	83 x 40 x 42
85-065-41	BHAF	50	22 (0.64)	0.85 (22)	360 (535)	5,724 (1,745)	2,855 (1,295)	83 x 40 x 42
85-069-41	BHAF	100	22 (0.64)	1.09 (28)	635 (945)	4,282 (1,305)	3,515 (1,595)	83 x 40 x 42
85-073-41	BHAF	200	22 (0.64)	1.47 (37)	1,190 (1,770)	3,412 (1,040)	4,855 (2,200)	83 x 40 x 42
85-077-41	BHAF	400	22 (0.64)	1.99 (51)	2,260 (3,365)	2,132 (650)	5,615 (2,545)	83 x 40 x 42
85-081-41	BHAF	600	22 (0.64)	2.42 (62)	3,370 (5,015)	1,410 (430)	5,545 (2,515)	83 x 40 x 42
85-100-41	BKMF	50	24 (0.51)	0.72 (18)	255 (380)	6,316 (1,925)	2,405 (1,090)	83 x 40 x 42
85-104-41	BKMF	100	24 (0.51)	0.91 (23)	430 (640)	6,004 (1,830)	3,375 (1,530)	83 x 40 x 42
85-108-41	BKMF	200	24 (0.51)	1.18 (30)	770 (1,145)	2,116 (645)	2,425 (1,100)	83 x 40 x 42
85-110-41	BKMF	300	24 (0.51)	1.43 (36)	1,130 (1,680)	2,280 (695)	3,370 (1,530)	83 x 40 x 42
85-112-41	BKMF	400	24 (0.51)	1.62 (41)	1,475 (2,195)	2,280 (695)	4,160 (1,885)	83 x 40 x 42
85-116-41	BKMF	600	24 (0.51)	1.94 (49)	2,160 (3,215)	1,312 (400)	3,630 (1,645)	83 x 40 x 42
85-118-41	BKMF	900	24 (0.51)	2.33 (59)	3,190 (4,745)	1,050 (320)	4,145 (1,880)	83 x 40 x 42
85-120-41	BKMF	1,200	24 (0.51)	2.64 (67)	4,165 (6,200)	1,312 (400)	6,260 (2,840)	83 x 40 x 42
85-143-41	BKTF	200	26 (0.40)	1.00 (25)	525 (780)	4,822 (1,470)	3,325(1,510)	83 x 40 x 42
85-147-41	BKTF	400	26 (0.40)	1.33 (34)	970 (1,445)	2,394 (730)	3,115 (1,415)	83 x 40 x 42
85-151-41	BKTF	600	26 (0.40)	1.58 (40)	1,410 (2,100)	2,394 (730)	4,170 (1,890)	83 x 40 x 42
85-153-41	BKTF	900	26 (0.40)	1.87 (48)	2,045 (3,045)	1,510 (460)	3,885 (1,760)	83 x 40 x 42
85-155-41	BKTF	1,200	26 (0.40)	2.13 (54)	2,695 (4,010)	1,526 (465)	4,910 (2,225)	83 x 40 x 42

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Canadian Bonded STALPETH

DCAZ, DCMZ and DCTZ



PRODUCT DESCRIPTION

Canadian Bonded STALPETH Cable is a foam-skin insulated, single jacketed, armored air core design intended for use in ducts to provide more efficient duct utilization than standard PIC designs.

APPLICATIONS

Congested underground duct systems

	FEATURES	BENEFITS
	 Tightly controlled individual conductor dimensions 	 Limits resistance unbalance of paired conductors
	 Specially designed 	Minimizes crosstalk
Solid annealed copper	pair twist lays	and meets the capacitance unbalance requirements
Conductors are dual insulated with an inner layer of foamed, natural polyolefin covered by an outer layer of solid, colored polyolefin; conductor insulation is color coded in accordance with industry standard	Core wrap	 Protects the core and helps provide core-to-shield dielectric strength
Multiples of 25-pair groups are assembled to form the final cable core; each group is identified by color coded non-hygroscopic binders; for 1,200-pair and larger, the color code is Mirror Image design	Aluminum tape shield	 Assures good electrical contact with non-piercing bonding clamps
Non-hygroscopic dielectric material		 Protects the core from mechanical damage and reduces
Corrugated bare 8 mil aluminum tape applied longitudinally over the core wrap		the possibility of tape buckling during installation, ingress of
Corrugated, copolymer coated, 6 mil steel tape applied over the aluminum shield and bonded to the outer jacket		water to the aluminum shield and of water along the cable betweer
Black polyethylene		the armor and outer jacket
Manufacturer's identification, pair count, AWG, product identification and a telephone handset printed at 2 foot intervals; sequential footage markings are printed at alternate 2 foot intervals	Polyethylene jacket	 Provides a tough, flexible, protective covering that withstands exposure to sunlight, atmospheric temperatures,
Telcordia® GR-421-CORE Issue 2 RoHS-compliant		ground chemicals and stresses expected in standard installation
	Conductors are dual insulated with an inner layer of foamed, natural polyolefin covered by an outer layer of solid, colored polyolefin; conductor insulation is color coded in accordance with industry standard Multiples of 25-pair groups are assembled to form the final cable core; each group is identified by color coded non-hygroscopic binders; for 1,200-pair and larger, the color code is Mirror Image design Non-hygroscopic dielectric material Corrugated bare 8 mil aluminum tape applied longitudinally over the core wrap Corrugated, copolymer coated, 6 mil steel tape applied over the aluminum shield and bonded to the outer jacket Black polyethylene Manufacturer's identification, pair count, AWG, product identification and a telephone handset printed at 2 foot intervals; sequential footage markings are printed at alternate 2 foot intervals Telcordia® GR-421-CORE Issue 2	 Solid annealed copper Conductors are dual insulated with an inner layer of foamed, natural polyolefin covered by an outer layer of solid, colored polyolefin; conductor insulation is color coded in accordance with industry standard Multiples of 25-pair groups are assembled to form the final cable core; each group is identified by color coded non-hygroscopic binders; for 1,200-pair and larger, the color code is Mirror Image design Non-hygroscopic dielectric material Corrugated bare 8 mil aluminum tape applied longitudinally over the core wrap Corrugated, copolymer coated, 6 mil steel tape applied over the aluminum shield and bonded to the outer jacket Black polyethylene Manufacturer's identification, pair count, AWG, product identification and a telephone handset printed at 2 foot intervals; sequential footage markings are printed at alternate 2 foot intervals Telcordia® GR-421-CORE Issue 2

ELECTRICAL SPECIFICATIONS

		Canacit	ance Unbalance		Conneite	nce Unbalance	
	Average Mutual		o Pair @ 1 kHz			round @1kHz	
Number of Pairs	Capacitance @ 1,000 Hz	z Maximum Individual pF @ 1 kft (pF @ 1 km)			num Individual kft (pF @ 1 km)		n Average (pF @ 1 km)
All pairs	83 ± 4 (52 ± 2)	80 (145)	25 (45)	80	00 (2,625)	175	(574)
	Minimum Insulation	Maximum Average Attenuation	Maximum Conductor Resistance @ 68°F (20°C)		ice Unbalance num %	Dielectric DC Potenti	
Conductor Size AWG (mm)		772 kHz @ 68°F (20°C) dB/kft (dB/km)	Ohms/sheath mile (km)	Average	Individual Pair	Conductor to Conductor	Conducto to Shield
22 (0.64)	1.0 (1.6)	5.0 (16.4)	91 (56.5)	1.5	5.0	1,400	5,000
24 (0.51)	1.0 (1.6)	6.3 (20.7)	144 (89.5)	1.5	5.0	1,200	5,000
26 (0.40)	1.0 (1.6)	7.9 (25.9)	232 (144.2)	1.5	5.0	1,000	5,000

		lear End Crosstalk (NEXT) @ 772 kHz dB/kft (dB/km)
PSWUNEXT Mear	ı	47 (154)
PSWUNEXT Worst F	Pair	42 (138)
	Minimum Far	Fnd Crosstalk
Conductor Size		@ 772 kHz (dB/km)
Conductor Size AWG (mm)		0
	dB/kft	(dB/km)
AWG (mm)	dB/kft Mean	(dB/km) Worst Pair





Part Number	Product Code	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight Ibs/kft (kg/km)	Standard Length ft (m)	Approx. Shipping Weight Ibs (kg)	Steel Reel Size F x T x D in
07-021-76	DCAZ	900	22 (0.64)	2.49 (63)	4,375 (6,510)	1,600 (488)	7,795 (3,535)	83 x 40 x 42
07-021-77	DCAZ	1,200	22 (0.64)	2.85 (72)	5,770 (8,585)	1,200 (366)	7,720 (3,500)	83 x 40 x 42
19-116-01	DCMZ	600	24 (0.51)	1.70 (43)	19,60 (2,915)	3,900 (1,189)	8,440 (3,830)	83 x 40 x 42
07-021-99	DCMZ	900	24 (0.51)	2.02 (51)	2,860 (4,255)	2,616 (797)	8,275 (3,755)	83 x 40 x 42
07-021-68	DCMZ	1,200	24 (0.51)	2.30 (58)	3,755 (5,590)	2,000 (610)	8,305 (3,765)	83 x 40 x 42
07-022-12	DCMZ	1,500	24 (0.51)	2.57 (65)	4,660 (6,935)	1,600 (488)	8,250 (3,745)	83 x 40 x 42
07-021-69	DCMZ	1,800	24 (0.51)	2.81 (71)	5,545 (8,250)	1,250 (381)	7,725 (3,505)	83 x 40 x 42
07-021-75	DCMZ	2,100	24 (0.51)	3.04 (77)	6,440 (9,585)	1,148 (350)	8,200 (3,720)	83 x 40 x 42
07-021-98	DCMZ	2,400	24 (0.51)	3.22 (82)	7,320 (10,895)	876 (267)	7,205 (3,270)	83 x 40 x 42
07-022-11	DCTZ	900	26 (0.40)	1.62 (41)	1,850 (2,755)	3,904 (1,190)	8,010 (3,635)	83 x 40 x 42
07-021-70	DCTZ	1,200	26 (0.40)	1.84 (47)	2,420 (3,600)	3,200 (975)	8,540 (3,875)	83 x 40 x 42
07-022-08	DCTZ	1,500	26 (0.40)	2.08 (53)	2,995 (4,455)	2,500 (762)	8,285 (3,755)	83 x 40 x 42
07-021-71	DCTZ	1,800	26 (0.40)	2.26 (57)	3,560 (5,300)	2,080 (634)	8,200 (3,720)	83 x 40 x 42
07-021-72	DCTZ	2,400	26 (0.40)	2.58 (66)	4,685 (6,970)	1,600 (488)	8,290 (3,760)	83 x 40 x 42
07-021-90	DCTZ	2,700	26 (0.40)	2.71 (69)	5,240 (7,800)	1,247 (380)	7,345 (3,330)	83 x 40 x 42
07-021-73	DCTZ	3,000	26 (0.40)	2.86 (73)	5,800 (8,630)	1,200 (366)	7,755 (3,520)	83 x 40 x 42
07-021-74	DCTZ	3,600	26 (0.40)	3.03 (77)	6,885 (10,245)	1,150 (351)	8,715 (3,950)	83 x 40 x 42

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IM/F, IM/H and IM/G



PRODUCT DESCRIPTION

IM/F, IM/H and IM/G Aerial Service Wire in 2, 3, 6 and 12-pair is self supporting. The conductors are laid parallel to a solid extra-strength steel support wire. Both the conductors and support wire are jacketed in an integral "figure 8" configuration. This product permits fast, economical installation from aerial distribution cable terminals to building entrance protectors or network interface units on the subscriber's premises. The fully color coded core expedites splicing and terminating procedures.

SPECIFICATIONS		FEATURES	BENEFITS
Conductor	Solid annealed copper	 Tightly controlled individual 	 Limits resistance unbalance of
	Solid polyolefin in distinctive colors; standard color codes	conductor dimensions	the twisted pairs
Insulation	are used for pair identification with compounds chosen for electrical balance and permanency	 Varied pair twist lays 	 Minimizes crosstalk and meets capacitance limits
Core Assembly	Tightly controlled individual conductor dimensions; in multi-pair constructions, pair twist lays are varied; twisted pairs are formed into a firm, round core	Polyvinyl chloride jacket	 Provides a tough flexible protective covering that withstands exposure to sunlight,
Support Member	Available in 0.083 inch (F), 0.109 inch (H), or 0.095 inch (G) solid extra-strength steel support wire		atmospheric temperatures and stresses encountered in
Jacket	Black, fire retardant, polyvinyl chloride jacket; steel support wire is jacketed in an integral extrusion with the core		standard installations
Performance Compliance	Telcordia® GR-3163-CORE ANSI/ICEA S-89-648-2011 RoHS-compliant		
NRTL Programs	UL® Listed	Jan	al Guidelines are available for these products. Section on our site for more information.
Telcordia is a registered tr	ademark of Ericsson Inc. UL is a registered trademark of UL LLC.	incret to the Resources s	section on our site for more information.

ELECTRICAL SPECIFICATIONS

Average Mutual Capa	citance @ 1,000 Hz	Capacitance Un Maximum	Minimum Near End Crosstalk	
Maximum Individual nF/mile (nF/km)	Wire Average nF/mile (nF/km)	Pair to Pair pF @ 1 kft (pF @ 1 km)	Pair to Ground pF @ 1 kft (pF @ 1 km)	(NEXT) @ 772 kHz dB/kft (dB/km)
94 (58)	83 ± 7 (52 ± 4)	80 (145)	800 (2,625)	44 (144)

Conductor Size AWG (mm)	Minimum Insulation Resistance megohm-kft (megohm-km)	Maximum Average Attenuation 772 kHz @ 68°F (20°C) dB/kft (dB/km)	DC Conductor Resistance @ 68°F (20°C) Maximum Individual Ohms/mile (Ohms/km)	Resistance Unbalance Maximum % Individual Pair	Conductor to Conductor Dielectric Strength Minimum Volts DC 3 secs, no breakdown
19 (0.90)	5,000 (1,600)	3.3 (11)	45 (28.0)	5.0	5,000
22 (0.64)	5,000 (1,600)	5.1 (17)	91 (56.5)	5.0	4,000

PART NUMBERS AND PHYSICAL CHARACTERISTICS

				Dime	nsions				
Part Number	Support Size in	Pair Count	AWG (mm)	Minor in (mm)	Major in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Package	
10-921-38	IM/G 0.095	2	19 (0.90)	0.27 (6.8)	0.51 (12.9)	73 (109)	656 (200)	Coil	
10-923-38	IM/G 0.095	2	19 (0.90)	0.27 (6.8)	0.51 (12.9)	73 (109)	4,921 (1,500)	Reel	
10-002-34	IM/F 0.083	2	22 (0.64)	0.22 (5.7)	0.46 (11.7)	55 (82)	600 (183)	Coil	
10-102-34	IM/F 0.083	2	22 (0.64)	0.22 (5.7)	0.46 (11.7)	55 (82)	5,000 (1,524)	Reel	
10-503-34	IM/F 0.083	3	22 (0.64)	0.24 (6.2)	0.48 (12.3)	72 (107)	600 (183)	Coil	
10-106-34	IM/F 0.083	6	22 (0.64)	0.30 (7.6)	0.53 (13.6)	80 (119)	3,500 (1,067)	Reel	
10-206-34	IM/F 0.083	6	22 (0.64)	0.30 (7.6)	0.53 (13.6)	80 (119)	1,000 (305)	Reel	
10-006-34	IM/F 0.083	6	22 (0.64)	0.30 (7.6)	0.53 (13.6)	80 (119)	250 (76)	Coil	
10-261-38	IM/G 0.095	6	22 (0.64)	0.30 (7.6)	0.55 (13.9)	80 (119)	492 (150)	Coil	
10-262-38	IM/G 0.095	6	22 (0.64)	0.30 (7.6)	0.55 (13.9)	80 (119)	2,461 (750)	Reel	
10-265-38	IM/G 0.095	6	22 (0.64)	0.30 (7.6)	0.55 (13.9)	80 (119)	5,000 (1,524)	Reel	
10-281-38	IM/G 0.095	12	22 (0.64)	0.38 (7.6)	0.65 (16.6)	114 (170)	410 (125)	Coil	
10-284-38	IM/G 0.095	12	22 (0.64)	0.38 (7.6)	0.65 (16.6)	114 (170)	2,460 (750)	Reel	
10-285-38	IM/G 0.095	12	22 (0.64)	0.38 (7.6)	0.65 (16.6)	114 (170)	8,202 (2,500)	Reel	
10-102-35	IM/H 0.109	12	22 (0.64)	0.38 (7.6)	0.66 (16.7)	130 (193)	1,000 (305)	Reel	
10-012-35	IM/H 0.109	12	22 (0.64)	0.38 (7.6)	0.66 (16.7)	130 (193)	250 (76)	Coil	
10-212-35	IM/H 0.109	12	22 (0.64)	0.38 (7.6)	0.66 (16.7)	130 (193)	5,000 (1,524)	Reel	

Contact Superior Essex for additional configurations and AWG sizes.



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PRODUCT DESCRIPTION

ADP NMS is a PVC-jacketed aerial service wire with QuickCount® in meters. It is available in 2-pair and 6-pair designs. ADP NMS printed in meters is designed for use in extending telephone service to subscriber premises from the distribution cable or cable terminal. Major features include small size and light weight coupled with abrasion resistant jacket. Standard hardware and installation procedures are directly applicable to this product.

FEATURES

- BENEFITS
 - · Reduces the possibility of splitting pairs during installation
- mating ring insulation color • Tightly controlled individual conductor dimensions

Insulation of the tip conductor

is marked with a stripe of the

- Fiberglass yarns
- Rip cord
- Weather resistant, polyvinyl chloride jacket bonded to the fiberglass strength members
- Limits resistance unbalance of the twisted pairs
- Provides necessary longitudinal strength
- · Facilitates jacket removal
- · Protects the core from mechanical damage, degradation by sunlight and ingress of moisture
- Provides the required strength characteristics

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SPECIFICATIONS	
Conductor	Solid annealed copper
Insulation	Solid polyolefin; insulation of the tip conductor is marked with a stripe of the mating ring insulation color
Core Assembly	Individual conductors are carefully twisted into pairs
Strength Members	Fiberglass yarns placed parallel to the core
Rip cord	Placed parallel to the core
Jacket	Black, weather resistant, polyvinyl chloride jacket extruded over the yarns and rip cord and bonded to the fiberglass strength members
Performance Compliance	Telcordia® GR-3163-CORE RDUP PE-7 ANSI/ICEA S-89-648-2011 RoHS-compliant
NRTL Programs	UL® Listed

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ELECTRICAL SPECIFICATIONS

Average Mutual Capacitance @ 1,000 Hz			Capacitance Unbalance	0		
Maximum Individual nF/mile (nF/km)		Wire Average nF/mile (nF/km)	Maximum Individual N Pair to Pair pF @ 1 kft (pF @ 1 km)		Minimum Near End Crosstalk (NEXT) @ 772 kHz dB/kft (dB/km)	
94	1 (58)	83 ± 7 (52 ± 4)	80 (145)		48 (157)	
Conductor Size AWG (mm)	Minimum Insulation Resistance megohm-mile (megohm-km)	Maximum Average Attenuation 772 kHz @ 68°F (20°C) dB/kft (dB/km)	DC Conductor Resistance @ 68°F (20°C) Maximum Individual Ohms/mile (Ohms/km)	Resistance Unbalance Maximum % Individual Pair	Conductor to Conductor Dielectric Strength Minimum Volts DC 3 secs, no breakdown	
22 (0.64)	1,000 (1,600)	5.1 (17)	91 (56.5)	5.0	4,000	

PART NUMBERS AND PHYSICAL CHARACTERISTICS

		Dime	Dimensions				
Part Number	Pair Count	AWG (mm)	Minor in (mm)	Major in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length m	Package
12-015-08	2	22 (0.64)	0.18 (4.8)	0.36 (9.1)	35 (50)	150	ReelSaver™ coil
12-014-08	2	22 (0.64)	0.18 (4.8)	0.36 (9.1)	35 (50)	228	POP™ box
12-013-08	2	22 (0.64)	0.18 (4.8)	0.36 (9.1)	35 (50)	300	Coil
11-003-66	6	22 (0.64)	0.27 (7.0)	0.48 (12)	70 (105)	305	Reel
11-003-65	6	22 (0.64)	0.27 (7.0)	0.48 (12)	70 (105)	122	Coil



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TECHNICAL GUIDELINE



ADW

OSP CABLE

FTTP

WIRELESS



SPECIFICATIONS	
Conductor	Solid annealed copper
Insulation	Individual conductors insulated with solid polyolefin in distinctive colors; 2-pair color code is Blue/White and Orange/Red and 4-pair color code is Blue/White, Orange/Red, Black/Green and Yellow/Brown
Core Assembly	Individual conductors twisted into pairs
Strength Members	Fiberglass strength members placed in the jacket parallel to the core assembly
Rip cord	Placed parallel to the core
Jacket	Sky blue grey weather-resistant PVC jacket extruded over the strength members and bonded to the fiberglass strength members
Standards Compliance	RoHS-compliant

PRODUCT DESCRIPTION

ADW is a PVC jacketed 2-pair or 4-pair aerial service wire designed for use in extending telephone service to subscriber premises from the distribution cable or cable terminal. Major features include small size and light weight coupled with abrasion resistant jacket. Standard hardware and installations procedures are directly applicable to this product.

FEATURES	BENEFITS		
 Twisted pairs with varying lays 	Minimizes resistance unbalance		
Fiberglass strength members	 Provides the necessary longitudinal strength 		
 Rip cord 	 Facilitates jacket removal 		
 Weather-resistant PVC jacket extruded over the strength members and bonded to the fiberglass strength members 	 Protects the core from mechanical damage, degradation by sunlight and the ingress of moisture Provides the required strength characteristics 		

Conductor Size AWG (mm)	Average Mutual Capacitance @ 1,000 Hz nF/mile (nF/km)	Insulation Resistance @ 60°F (16°C) megohm-mile (megohm-km)	Capacitance Unbalance @ 1 kHz Pair to Pair Maximum pF @ 1 kft (pF @ 1 km)	Conductor DC Resistance @ 20°F (-7°C) Maximum Individual Ohms/kft (Ohms/km)	Resistance Unbalance Maximum Individual Pair %	Dielectric Strength DC Potential - Volts Minimum Conductor to Conductor
22 (0.64)	113 (70)	380 (610)	80 (145)	16.8 (55)	5.0	4,000

PART NUMBE	RS AND PHY	SICAL CHAR	ACTERISTICS	

Part Number	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Package
12-022-09	2	22 (0.64)	0.26 (6.6)	30 (45)	1,476 (450)	Coil
12-021-09	2	22 (0.64)	0.26 (6.6)	30 (45)	656 (200)	POP™ Box
12-041-09	4	22 (0.64)	0.33 (8.4)	55 (80)	820 (250)	Coil
12-043-09	4	22 (0.64)	0.33 (8.4)	55 (80)	328 (100)	POP Box

TECHNICAL GUIDELINE





Buried Distribution Wire

PRODUCT DESCRIPTION

BCBD Wire with foam skin insulation is a single jacketed design for use in subscriber distribution.

FEATURES	BENEFITS
Varied pair twist lays	 Minimizes crosstalk and meets capacitance unbalance limitations
Core wrap	 Furnishes mechanical and high dielectric protection between shielding and individual conductors
Polyethylene jacket	 Provides a tough, flexible protective covering that withstands exposure to sunlight, atmospheric temperatures, ground chemicals and stresses expected in standard installations

SPECIFICATIONS	
Conductor	Solid annealed copper
AWG (mm)	22 (0.64)
Insulation	Dual-extruded cellular inner layer and a color coded solid outer layer of polyolefin
Core Assembly	Insulated conductors are twisted to form pairs with varying lays
Filling Compound	PEPJ compound applied to the wire core which completely coats each insulated conductor and fills the interstices between pairs
Core Wrap	Non-hygroscopic core wrap applied over the core
Flooding Compound	Applied to fill all the voids under the shield
Shield	Electrically-continuous 8 mil flat aluminum tape shield with a polyolefin film fused and chemically bonded to both sides; applied longitudinally over the core and bonded to the outer jacket
Jacket	Black medium-density polyethylene
Standards Compliance	RoHS-compliant

tandards Compliance RoHS-compliant

ELECTRICAL SPECIFICATIONS

	Capacitance Unbalance	e Maximum Individual
Average Mutual Capacitance @ 1,000 Hz nF/mile (nF/km)	Pair to Pair pF @ 1 kft (pF @ 1 km)	Pair to Ground pF @ 1 kft (pF @ 1 km)
90 (56)	80 (145)	800 (2,625)
90 (30)	80 (143)	800 (2,023)

	Minimum Insulation	Maximum Average Attenuation	Maximum Conductor Resistance @ 68°F (20°C)	Resistance Unbalance	Dielectric Strength DC Potential – Volts Minimum	
Conductor Size AWG (mm)	Resistance @ 60°F (16°C) gigohm-mile (gigohm-km)	772 kHz @ 68°F (20°C) dB/kft (dB/km)	Ohms/sheath kft (km)	Maximum % Individual Pair	Conductor to Conductor	Conductor to Shield
22 (0.64)	1.0 (1.6)	4.5 (14.8)	17.3 (56.6)	5.0	3,600	10,000

PART NUMBERS AND	PHYSICAL CHARACTI	ERISTICS				
Part Number	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Package
85-233-06	4	22 (0.64)	0.30 (7.6)	45 (65)	4,593 (1,400)	Reel

B-111



C-Rural Wire



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PART NUMBERS AND PHYSICAL CHARACTERISTICS

		Dime	nsions			
Part Number	AWG (mm)	Minor in (mm)	Major in (mm)	Approx. Weight Ibs/kft (kg/km)	Standard Length ft (m)	Package
10-026-06	14 (1.63)	0.15 (3.8)	0.28 (7.1)	36 (54)	1,000 (305)	Coil
10-016-06	14 (1.63)	0.15 (3.8)	0.28 (7.1)	36 (54)	5,500 (1,676)	Wooden reel
10-116-06	14 (1.63)	0.15 (3.8)	0.28 (7.1)	36 (54)	22,000 (6,705)	Four 5,500' reels on a pallet

PRODUCT DESCRIPTION

C-Rural Wire is quickly and easily installed, utilizing standard hardware and installation procedures for single circuit aerial distribution rural networks.



TECHNICAL GUIDELINE

Multi-pair, self-supporting IMRDW Wire is used for subscriber lines in exchange plant; single-pair is often used for lateral runs from aerial plant. In both single and multi-pair types, the wire core is laid parallel to a solid steel support wire and jacketed in an integral extrusion to form a "figure 8" configuration utilizing a 0.109 inch solid, extra-high strength steel support member. The IM construction permits fast, economical installation and facilitates removal and re-use of wire.

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SPECIFICATIONS	
Conductor	Solid bare copper
Insulation	Polyolefin
Core Assembly	Twisted into pairs to minimize resistance unbalance; in multi-pair constructions, pair twist lays vary to minimize crosstalk and meet capacitance unbalance requirements; twisted pairs are formed into firm, round core
Core Wrap	Non-hygroscopic, dielectric wrap
Jacket	Black polyethylene
Support Wire	Single 0.109 inch solid, extra-high strength steel, jacketed in an integral extrusion with the core
Standards Compliance	RDUP PE-27 and PE-28 deactivated by RDUP ICEA S-89-648 as applicable RoHS-compliant

ELECTRICAL SPECIFICATIONS

Number of Pairs	Average Mutual Capacitance @ 1,000 Hz nF/mile (nF/km)
Maximum Individual	94 (58)
12 or less	83 ± 7 (52 ± 4)
Over 12	83 ± 4 (52 ± 2)

Conductor Size AWG (mm)	Minimum Insulation Resistance @ 68°F (20°C) megohm-mile (megohm-km)	Maximum Average Attenuation 772 kHz @ 68°F (20°C) dB/kft (dB/km)	Maximum Conductor Resistance @ 68°F (20°C) Ohms/mile (Ohms/km)	DC Resistance Unbalance Maximum % Individual Pair	Dielectric Strength Minimum Volts DC
22 (0.64)	1,000 (1,600)	5.1 (16.7)	91 (56.4)	5.0	7,200
24 (0.51)	1,000 (1,600)	6.5 (21.3)	144 (89.5)	5.0	7,200

	Capacitance Unbalance @ 1,000 Hz pF @ 1 kft (pF @ 1 km)
Maximum Pair to Pair	80 (145)

PART NUMBERS AND PHYSICAL CHARACTERISTICS

			Dime	Dimensions			
Part Number	Pair Count	AWG (mm)	Minor in (mm)	Major in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Package
10-002-17	2	22 (0.64)	0.20 (5.1)	0.48 (12.2)	60 (90)	5,000 (1,524)	Reel
10-003-17	3	22 (0.64)	0.23 (5.8)	0.51 (12.9)	65 (95)	5,000 (1,524)	Reel
10-004-17	4	22 (0.64)	0.24 (6.0)	0.52 (13.2)	70 (104)	5,000 (1,524)	Reel
10-006-17	6	22 (0.64)	0.29 (7.5)	0.58 (14.8)	85 (125)	5,000 (1,524)	Reel
10-012-17	12	22 (0.64)	0.36 (9.2)	0.65 (16.5)	115 (170)	5,000 (1,524)	Reel
10-006-19	6	24 (0.51)	0.25 (6.4)	0.54 (13.7)	70 (105)	5,000 (1,524)	Reel
10-012-19	12	24 (0.51)	0.32 (8.2)	0.61 (15.4)	95 (140)	5,000 (1,524)	Reel



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Ed 13.0

TECHNICAL GUIDELINE





IMRDWS

SPECIFICATIONS	
Conductor	Solid bare copper
Insulation	Polyolefin
Core Assembly	Individual conductors carefully twisted into pairs to minimize resistance unbalance and cross-talk
Shield	3 mil foil shield with drain wire
Jacket	Black polyethylene
Rip cord	Placed parallel to the core
Support Wire	"Figure 8" configuration utilizing a 0.109 inch, solid, extra high strength, steel support wire
Standards Compliance	ICEA S-89-648 as applicable RoHS-compliant

PRODUCT DESCRIPTION

IMRDWS is an aerial wire designed for use in extending communications service (voice, data, and/or video) to a subscriber premises from the distribution point. This product has additional capabilities over the standard IMRDW product because it contains a shielding screen. The conductors are wrapped within a metallic aluminum shield to insulate them from interference and thus provide high-quality digital transmission. In addition, a drain wire runs longitudinally the length of the wire to drain off Electromagnetic Interference (EMI) and Radio Frequency Interference (RFI). Without shielding and a drain wire, noise can be introduced into circuits from high voltage AC power lines, machinery with motors, x-ray systems, TV sets and AM radio stations. Shielding also lessens the chance that DSL or other high frequency transmission protocols will interfere with other signals on adjacent cables.

FEATURES	BENEFITS
• 3 mil foil shield with drain wire	 Provides high-quality digital transmission medium for xDSL technologies and, when properly grounded, removes spectrum interferences
Black, polyethylene jacket	 Provides tough, flexible protective covering that withstands exposure to sunlight, atmospheric temperatures and stresses encountered in standard installations
Rip cord	Facilitates jacket removal

ELECTRICAL SPECIFICATIONS

All Pairs	Average Mutual Capacitance @ 1,000 Hz nF/mile (nF/km)
Maximum Individual	94 (58)
Wire Average	83 ± 7 (52 ± 4)

	Minimum Insulation Resistance	Maximum Average		DC Resistance Unbalan	Minimum	Dielectric Strength Minimum Volts DC	
Conductor Size AWG (mm)	@ 68°F (20°C) megohm-mile (megohm-km)	772 kHz @ 68°F (20°C) dB/kft (dB/km)	Resistance @ 68°F (20°C) Ohms/mile (Ohms/km)	Maximum % Individual Pair	Conductor to Conductor	Conductor to Shield	
22 (0.64)	1,000 (1,600)	5.1 (16.7)	91 (56.4)	5.0	7,200	3,600	
		Crosstalk Loss dB/kft (dB/km)		Са	pacitance Unbalance pF @ 1 kft (pF @		
Minimum FEX	XT @ 150 kHz	63 (207)	Maximum Individ	lual Pair to Pair	80 (145)		
Minimum NEXT @ 722 kHz		44 (144)	Maximum Individua	Maximum Individual Pair to Ground		800 (2,625)	

PART NUMBERS AND PHYSICAL CHARACTERISTICS

			Dime	Dimensions			
Part Number	Pair Count	AWG (mm)	Minor in (mm)	Major in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Package
10-061-29	6	22 (0.64)	0.32 (8.1)	0.60 (15.3)	95 (142)	2,133 (650)	Reel
10-040-29	6	22 (0.64)	0.32 (8.1)	0.60 (15.3)	95 (142)	5,000 (1,524)	Reel



TECHNICAL GUIDELINE



PRODUCT DESCRIPTION

ADP NMS is a PVC-jacketed Aerial Service Wire offered in 1, 2, 3, 5 or 6-pair. It is designed for use in extending telephone service to subscriber premises from the distribution cable or cable terminal. Major features include small size and light weight coupled with abrasion resistant jacket. Standard hardware and installation procedures are directly applicable to this product. The insulation of the tip conductor is marked with a stripe of the mating ring insulation color to reduce the possibility of splitting pairs during installation. A black, weather resistant, polyvinyl chloride jacket is extruded over the strength members and rip cord to protect the core from mechanical damage, degradation by sunlight and ingress of moisture. The jacket bonds to the strength members to provide the required strength characteristics.

F	EATURES	в	ENEFITS
•	Non-metallic or fiberglass strength members	•	Provide necessary longitudinal strength
	Rip cord	•	Facilitates jacket removal



SPECIFICATIONS	
Conductor	Solid annealed copper
Insulation	Polyolefin
Core Assembly	Individual conductors are carefully twisted into pairs in a manner designed to minimize resistance unbalance
Strength Members	Non-metallic or fiberglass strength members placed in jacket parallel to core assembly
Rip cord	Placed parallel to the core
Jacket	Weather-resistant PVC
Performance Compliance	Telcordia® GR-3163-CORE RDUP PE 7 ANSI/ICEA S-89-648-2011 RoHS-compliant
NRTL Programs	UL® Listed
Telcordia is a registered trademark of Ericsson Inc	. UL is a registered trademark of UL LLC.

ELECTRICAL SPECIFICATIONS

	Number of Pairs		Average Mutual Capacitance @ 1,000 Hz nF/mile (nF/km)			
	Maximum Pair			94 (58)		
	Maximum Average		90 (56)			
Conductor Size AWG (mm)			Resistance DC Resistance Unbalance Dielectri @ 68°F (20°C) Maximum % Vol		Conductor to Conductor Dielectric Strength Volts DC 3 secs, no breakdown	
22 (0.64)	1,000 (1,600)	5.1 (17)	91 (56.5)	5.0	4,000	
Crosstalk Loss dB/kft (dB/km)			Capacitance Unbalance @ 1,00 pF @ 1 kft (pF @ 1 km)			
Minimum NEXT @ 722 kHz 44 (144)		Maximum Indiv	idual Pair	80 (145)		

PART NUMBERS AND PHYSICAL CHARACTERISTICS

			Dimensions		_		
Part Number	Pair Count	AWG (mm)	Minor in (mm)	Major in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Package
12-031-08	1	22 (0.64)	0.18 (4.8)	0.36 (9.1)	34 (51)	750 (229)	POP™ box
12-004-08	2	22 (0.64)	0.18 (4.8)	0.36 (9.1)	39 (58)	750 (229)	POP box
12-010-08	2	22 (0.64)	0.18 (4.8)	0.36 (9.1)	39 (58)	1,000 (305)	Coil
12-023-08	2	22 (0.64)	0.18 (4.8)	0.36 (9.1)	39 (58)	5,000 (1,524)	Reel
12-019-08	3	22 (0.64)	0.21 (5.3)	0.39 (9.9)	45 (67)	600 (183)	POP box
12-022-08	3	22 (0.64)	0.21 (5.3)	0.39 (9.9)	45 (67)	750 (229)	Coil
12-519-08	5	22 (0.64)	0.27 (7.0)	0.48 (12.0)	76 (113)	400 (122)	POP box
12-024-08	5	22 (0.64)	0.27 (7.0)	0.48 (12.0)	76 (113)	2,500 (762)	Reel
12-025-08	5	22 (0.64)	0.27 (7.0)	0.48 (12.0)	76 (113)	1,000 (305)	Reel
12-026-08	5	22 (0.64)	0.27 (7.0)	0.48 (12.0)	76 (113)	700 (213)	IPL coil
12-006-08	6	22 (0.64)	0.27 (7.0)	0.48 (12.0)	80 (119)	400 (122)	Coil
12-007-08	6	22 (0.64)	0.27 (7.0)	0.48 (12.0)	80 (119)	2,500 (762)	Reel
12-008-08	6	22 (0.64)	0.27 (7.0)	0.48 (12.0)	80 (119)	3,500 (1,068)	Reel
12-009-08	6	22 (0.64)	0.27 (7.0)	0.48 (12.0)	80 (119)	1,000 (305)	Reel



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TECHNICAL GUIDELINE

Sag and Tension Technical Guidelines are available for these products.

Refer to the "Resources" section on our site for more information.



OSP CABLE



SPECIFICATIONS	
Conductor	Solid annealed copper
Insulation	Polyolefin
Core Assembly	Individual conductors are carefully twisted into pairs in a manner designed to minimize resistance unbalance
Strength Members	Non-metallic or fiberglass strength members placed in jacket parallel to core assembly
Rip cord	Placed parallel to the core
Jacket	Weather-resistant PVC
Performance Compliance	GR-3163-CORE as applicable ANSI/ICEA S-89-648-2011 RoHS-compliant
NRTL Programs	UL® Listed
III is a registered trademark of III IIC	

PRODUCT DESCRIPTION

The ADP NMS 6 x 24 Compact Design features a black abrasion resistant PVC-jacket and is used to extend telephone service to subscriber premises from the distribution cable or cable terminal. The product features four fiberglass yarns that provide all the longitudinal strength necessary. Simple access procedures allow for quick and easy installation with the small standard off the shelf industry hardware. This product offers 6-pair in the size and shape of the traditional 3-pair product. Each conductor is insulated with solid polyolefin in distinctive colors. The insulation of the tip conductor is marked with a stripe of the mating ring insulation color to reduce the possibility of splitting pairs during installation. A black, weather resistant, polyvinyl chloride jacket is extruded over the strength members and rip cord to protect the core from mechanical damage. The jacket bonds to the fiber glass strength members to provide the required strength characteristics.

FEATURES BENEFITS Provide necessary Non-metallic or fiberglass . strength members

Rip cord

Maximum Individual Pair

longitudinal strength · Facilitates jacket removal

80 (145)

UL is a registered trademark of UL LLC.

ELECTRICAL SPECIFICATIONS

	Number of Pairs		Average Mutual Capacitanc nF/mile (nF/km	0,
	Maximum Individual		94 (58)	
Wire Average			83 ± 7 (52 ± 4))
Conductor Size AWG (mm)	Minimum Insulation Resistance @ 68°F (20°C) megohm-mile (megohm-km)	Maximum Average Attenuation 772 kHz @ 68°F (20°C) dB/kft (dB/km)	Maximum Conductor Resistance @ 68°F (20°C) Ohms/mile (Ohms/km)	DC Resistance Unbalance Maximum % Individual Pair
24 (0.51)	1,000 (1,600)	5.8 (19.0)	144 (89.5)	5.0
	Crosstalk Lo dB/kft (dB/k		Ca	pacitance Unbalance @ 1,000 Hz pF @ 1 kft (pF @ 1 km)

Minimum NEXT @ 722 kHz	44 (144)

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Minimum FEXT @ 150 kHz

			Dime	nsions			
Part Number	Pair Count	AWG (mm)	Minor in (mm)	Major in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Package
12-801-08	6	24 (0.51)	0.21 (5.3)	0.38 (9.7)	50 (74)	600 (183)	POP™ box
12-802-08	6	24 (0.51)	0.21 (5.3)	0.38 (9.7)	50 (74)	1,000 (305)	Reel



TECHNICAL GUIDELINE

Sag and Tension Technical Guidelines are available for these products. Refer to the "Resources" section on our site for more information.

63 (207)



ADP S is a PVC-jacketed, aerial service wire designed for use in extending communications service (voice, data and/or video) to a subscriber premises from the distribution cable terminal. This product has additional capabilities over the standard ADP NMS product because it contains a shielding screen. The core is wrapped within a metallic foil to provide shielding from interference and thus provide high-quality digital transmission. In addition, a drain wire runs longitudinally the length of the wire to drain off Electromagnetic Interference (EMI) and Radio Frequency Interference (RFI). Without shielding and a drain wire, noise can be introduced into circuits from high voltage AC power lines, machinery with motors, x-ray systems, TV sets and AM radio stations. Shielding also lessens the chance that DSL or other high frequency transmission protocols will interfere with other signals on adjacent cables. Each conductor is insulated with solid polyolefin in distinctive colors. The insulation of the tip conductor is marked with a stripe of the mating ring insulation color to reduce the possibility of splitting pairs during installation. A black, weather resistant, polyvinyl chloride jacket is extruded over the yarns and rip cord to protect the core from mechanical damage, degradation by sunlight and ingress of moisture. The jacket bonds to the fiberglass strength members to provide the required strength characteristics.

FEATURES	BENEFITS
3 mil metallic foil shield with drain wire	 Provides high-quality digital transmission medium for xDSL technologies and, when properly grounded, removes spectrum interferences
 Non-metallic or fiberglass strength members 	 Provide necessary longitudinal strength
 Rip cord 	 Facilitates jacket removal

SPECIFICATIONS	
Conductor	Solid annealed copper
Insulation	Polyolefin
Core Assembly	Individual conductors are carefully twisted into pairs in a manner designed to minimize resistance unbalance
Shield	3 mil metallic foil shield with drain wire
Strength Members	Non-metallic or fiberglass strength members placed in jacket parallel to core assembly
Rip cord	Placed parallel to the core
Jacket	Weather-resistant PVC
Performance Compliance	Applicable sections of both GR-3163-CORE and ANSI/ICEA S-89-648-2011 RoHS-compliant
NRTL Programs	UL® Listed
UL is a reaistered trademark of UL LLC.	

ELECTRICAL SPECIFICATIONS

	Number of Pairs		Average Mutual Capacitance @ 1,000 Hz nF/mile (nF/km)		
	Maximum Pair			94 (58)	
	Maximum Average			90 (56)	
Conductor Size AWG (mm)	Minimum Insulation Resistance @ 68°F (20°C) megohm-mile (megohm-km)	Maximum Average Attenuation 772 kHz @ 68°F (20°C) dB/kft (dB/km)	Maximum Conductor Resistance @ 68°F (20°C) Ohms/mile (Ohms/km)	DC Resistance Unbalance Maximum % Individual Pair	Conductor to Conductor Dielectric Strength Volts DC 3 secs, no breakdown
22 (0.64)	1,000 (1,600)	5.1 (17)	91 (56.5)	5.0	4,000
		Crosstalk Loss dB/kft (dB/km)			ance Unbalance @ 1,000 Hz F @ 1 kft (pF @ 1 km)
Minimum NE	EXT @ 722 kHz	44 (144)	Maximum Indiv	idual Pair	80 (145)

PART NUMBERS AND PHYSICAL CHARACTERISTICS

			Dimensions				
Part Number	Pair Count	AWG (mm)	Minor in (mm)	Major in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Package
12-101-07	1	22 (0.64)	0.21 (5.3)	0.39 (9.9)	37 (49)	1,000 (305)	Reel
12-301-07	3	22 (0.64)	0.27 (6.8)	0.45 (11.4)	55 (82)	1,000 (305)	Reel
12-302-07	3	22 (0.64)	0.27 (6.8)	0.45 (11.4)	55 (82)	400 (122)	POP™ box
12-303-07	3	22 (0.64)	0.27 (6.8)	0.45 (11.4)	55 (82)	750 (229)	Reel
12-304-07	3	22 (0.64)	0.27 (6.8)	0.45 (11.4)	55 (82)	750 (229)	Coil
12-305-07	3	22 (0.64)	0.27 (6.8)	0.45 (11.4)	55 (82)	500 (152)	Reel-in-a-Box
12-501-07	5	22 (0.64)	0.28 (7.1)	0.49 (12.0)	78 (116)	1,000 (305)	Reel



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TECHNICAL GUIDELINE

Sag and Tension Technical Guidelines are available for these products. Refer to the "Resources" section on our site for more information.

All information, content, data, specifications, packaging and part numbers detailed herein are subject to change. For the most up-to-date information, please visit SuperiorEssex.com. Purchase of this product is subject exclusively to the then current SuperiorEssex International LP Terms and Conditions of Sale for Communications and Energy Cable, Wire and Connectivity Products, which can be found on our website, SuperiorEssex.com, or provided to you upon request.

800.551.8948 SuperiorEssex.com



IM/F, IM/H and IM/G



SPECIFICATIONS Solid annealed copper Conductor Insulation Polvolefin Individual conductor dimensions are tightly controlled to limit resistance unbalance of the twisted pairs; in Core Assembly multi-pair constructions, pair twist lays are varied to minimize crosstalk and meet capacitance limits; twisted pairs are formed into a firm, round core Jacket Fire retardant PVC Telcordia[®] GR-3163-CORE Performance Compliance ANSI/ICEA S-89-648-2011 RoHS-compliant NRTL Programs UL® Listed

Telcordia is a registered trademark of Ericsson Inc. UL is a registered trademark of UL LLC.

ELECTRICAL SPECIFICATIONS

PRODUCT DESCRIPTION

IM/F, IM/H and IM/G aerial service wire in 2, 3, 6 and 12-pair is self supporting. The conductors are laid parallel to an (F) 0.083 inch, (H) 0.109 inch, or (G) 0.095 inch solid extra-strength steel support wire. Both the conductors and support wire are jacketed in an integral "figure 8" configuration. This product permits fast, economical installation from aerial distribution cable terminals to building entrance protectors or network interface units on the subscriber's premises. The fully color coded core expedites splicing and terminating procedures. A black, fire retardant, polyvinyl chloride jacket provides a tough flexible protective covering that withstands exposure to sunlight, atmospheric temperatures and stresses encountered in standard installations. The steel support wire is jacketed in an integral extrusion with the core.

TECHNICAL GUIDELINE

Sag and Tension Technical Guidelines are available for these products. Refer to the "Resources" section on our site for more information.

Number of Pairs	Average Mutual Capacitance @ 1,000 Hz nF/mile (nF/km)
Maximum Pair	94 (58)
Maximum Average	90 (56)

Conductor Size AWG (mm)	Minimum Insulation Resistance @ 68°F (20°C) megohm-mile (megohm-km)	Maximum Average Attenuation 772 kHz @ 68°F (20°C) dB/kft (dB/km)	Maximum Conductor Resistance @ 68°F (20°C) Ohms/mile (Ohms/km)	DC Resistance Unbalance Maximum % Individual Pair	Conductor to Conductor Dielectric Strength Minimum Volts DC 3 secs, no breakdown
19 (0.90)	1,000 (1,600)	3.6 (11.8)	45 (28.0)	5.0	-
22 (0.64)	1,000 (1,600)	5.1 (17.0)	91 (56.5)	5.0	4,000

	Crosstalk Loss dB/kft (dB/km)		Capacitance Unbalance @ 1,000 Hz pF @ 1 kft (pF @ 1 km)
Minimum NEXT @ 722 kHz	44 (144)	Maximum Individual Pair to Pair	80 (145)
		Maximum Individual Pair to Ground	800 (2,625)

PART NUMBERS AND PHYSICAL CHARACTERISTICS

				Dime	nsions			
Part Number	Support Size	Pair Count	AWG (mm)	Minor in (mm)	Major in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Package
10-921-38	IM/G 0.095	2	19 (0.90)	0.27 (6.8)	0.51 (12.9)	73 (109)	656 (200)	Coil
10-923-38	IM/G 0.095	2	19 (0.90)	0.27 (6.8)	0.51 (12.9)	73 (109)	4,921 (1,500)	Reel
10-002-34	IM/F 0.083	2	22 (0.64)	0.22 (5.7)	0.46 (11.7)	55 (82)	600 (183)	Coil
10-102-34	IM/F 0.083	2	22 (0.64)	0.22 (5.7)	0.46 (11.7)	55 (82)	5,000 (1,524)	Reel
10-503-34	IM/F 0.083	3	22 (0.64)	0.24 (6.2)	0.48 (12.3)	72 (107)	1,000 (305)	Coil
10-106-34	IM/F 0.083	6	22 (0.64)	0.30 (7.6)	0.53 (13.6)	80 (119)	3,500 (1,067)	Reel
10-206-34	IM/F 0.083	6	22 (0.64)	0.30 (7.6)	0.53 (13.6)	80 (119)	1,000 (305)	Reel
10-261-38	IM/G 0.095	6	22 (0.64)	0.30 (7.6)	0.55 (13.9)	80 (119)	492 (150)	Coil
10-262-38	IM/G 0.095	6	22 (0.64)	0.30 (7.6)	0.55 (13.9)	80 (119)	2,461 (750)	Reel
10-265-38	IM/G 0.095	6	22 (0.64)	0.30 (7.6)	0.55 (13.9)	80 (119)	5,000 (1,562)	Reel
10-281-38	IM/G 0.095	12	22 (0.64)	0.38 (7.6)	0.65 (16.6)	114 (170)	410 (125)	Coil
10-284-38	IM/G 0.095	12	22 (0.64)	0.38 (7.6)	0.65 (16.6)	114 (170)	2,460 (750)	Reel
10-285-38	IM/G 0.095	12	22 (0.64)	0.38 (7.6)	0.65 (16.6)	114 (170)	8,202 (2,500)	Reel
10-102-35	IM/H 0.109	12	22 (0.64)	0.38 (7.6)	0.66 (16.7)	130 (193)	1,000 (305)	Reel
10-012-35	IM/H 0.109	12	22 (0.64)	0.38 (7.6)	0.66 (16.7)	130 (193)	250 (76)	Coil
10-212-35	IM/H 0.109	12	22 (0.64)	0.38 (7.6)	0.66 (16.7)	130 (193)	5,000 (1,524)	Reel

Contact Superior Essex for additional configurations and AWG sizes.



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All information, content, data, specifications, packaging and part numbers detailed herein are subject to change. For the most up-to-date information, please visit SuperiorEssex.com. Purchase of this product is subject exclusively to the then current Superior Essex International LP Terms and Conditions of Sale for Communications and Energy Cable, Wire and Connectivity Products, which can be found on our website, SuperiorEssex.com, or provided to you upon request.

PRODUCT DESCRIPTION

BDW A is a filled, double-jacketed buried wire intended for direct burial applications. Applications include distribution circuits and service entrance wires. BDW A is designed to withstand installation stresses. BDW A is filled with an ETPR compound, which completely coats each insulated conductor and fills the air space between conductors. BDW A is recommended for non-gopher areas. Each conductor is insulated with solid polyolefin in distinctive colors. The insulation of the tip conductor is marked with a stripe of the mating ring insulation color to reduce the possibility of splitting pairs during installation.

APPLICATIONS

- Direct burial
- · Distribution circuits and service entrance wires

FEATURES	BENEFITS
Polyethylene inner jacket	 Provides additional mechanical and moisture protection
 Polyethylene outer jacket 	 Provides tough, flexible, protective covering that withstands exposure to sunlight, atmospheric temperatures, ground chemicals and stresses expected in standard installations
Dual rip cords	Facilitates jacket removal

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SPECIFICATIONS	
Conductor	Solid annealed copper
Insulation	Polyolefin
Core Assembly	Individual conductor dimensions are tightly controlled to limit resistance unbalance of twisted pairs; pair twist lays are varied to minimize crosstalk and meet capacitance unbalance limits
Filling Compound	Wire core is completely filled with 80°C ETPR compound, filling the air spaces between insulated conductors
Inner Jacket	Polyethylene
Shield	Smooth, copolymer-coated, 8 mil aluminum tape applied longitudinally over inner jacket and bonded to outer jacket; space under the tape is flooded to eliminate all air space
Outer Jacket	Black, polyethylene
Standards Compliance	ANSI/ICEA S-86-634-2011 RoHS-compliant

ELECTRICAL SPECIFICATIONS

All Pairs	Average Mutual Capacitance @ 1,000 Hz nF/mile (nF/km)
Maximum Individual	94 (58)
Wire Average	83 ± 7 (52 ± 4)

	Minimum Insulation Resistance	Maximum Average Attenuation	Maximum Conductor Resistance	DC Resistance Unbalance	Dielectric Strength Minimum Volts DC	
Conductor Size AWG (mm)	@ 68°F (20°C) megohm-mile (megohm-km)	772 kHz @ 68°F (20°C) dB/kft (dB/km)	@ 68°F (20°C) Ohms/mile (Ohms/km)	Maximum % Individual Pair	Conductor to Conductor	Conductor to Shield
19 (0.90)	1,000 (1,600)	3.1 (10.2)	45 (28.0)	5.0	7,000	20,000
22 (0.64)	1,000 (1,600)	4.4 (14.4)	91 (56.4)	5.0	5,000	20,000
24 (0.51)	1,000 (1,600)	5.5 (18.0)	144 (89.5)	5.0	4,000	20,000
		Crosstalk Loss dB/kft (dB/km)		(Capacitance Unbalan pF @ 1 kft (pF (0,
Minimum NEXT @ 722 kHz		44 (144)	Maximum Ind	ividual Pair to Pair	80 (145)
			Maximum Indivi	dual Pair to Ground	800 (2,62	5)

PART NUMBERS AND PHYSICAL CHARACTERISTICS

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Part Number	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Package
04-023-85	2	19 (0.90)	0.38 (9.7)	65 (97)	5,000 (1,524)	Reel
04-025-85	3	19 (0.90)	0.42 (11)	85 (125)	5,000 (1,524)	Reel
04-052-84	2	22 (0.64)	0.32 (8.1)	45 (65)	1,000 (305)	Reel
04-053-84	2	22 (0.64)	0.32 (8.1)	45 (65)	2,500 (762)	Reel
04-055-84	2	22 (0.64)	0.32 (8.1)	45 (65)	5,000 (1,524)	Reel
04-056-84	3	22 (0.64)	0.33 (8.4)	50 (75)	1,000 (305)	Reel
04-062-84	3	22 (0.64)	0.33 (8.4)	50 (75)	2,500 (762)	Reel
04-058-84	3	22 (0.64)	0.33 (8.4)	50 (75)	5,000 (1,524)	Reel
04-061-85	6	22 (0.64)	0.41 (10)	80 (120)	1,000 (305)	Reel
04-058-85	6	22 (0.64)	0.41 (10)	80 (120)	2,500 (762)	Reel
04-057-85	6	22 (0.64)	0.41 (10)	80 (120)	5,000 (1,524)	Reel
04-098-85	2	24 (0.51)	0.27 (6.9)	30 (45)	5,000 (1,524)	Reel
04-101-85	3	24 (0.51)	0.29 (7.4)	40 (60)	5,000 (1,524)	Reel
04-097-85	6	24 (0.51)	0.35 (8.9)	55 (80)	5,000 (1,524)	Reel



BDW G

OFFICIERCATIONS	
SPECIFICATIONS	
Conductor	Solid annealed copper
Insulation	Polyolefin
Core Assembly	Individual conductor dimensions are tightly controlled to limit resistance unbalance of twisted pairs; pair twist lays are varied to minimize crosstalk and meet capacitance unbalance limits
Filling Compound	Wire core is completely filled with 80°C ETPR compound, filling the air spaces between insulated conductors
Inner Jacket	Polyethylene
Shield	Corrugated, 5 mil gopher resistant armor applied longitudinally over the inner jacket and flooded
Outer Jacket	Black polyethylene
Standards Compliance	*RDUP 7 CFR 1755.860 (PE-86) ANSI/ICEA S-86-634-2011 RoHS-compliant

PRODUCT DESCRIPTION

BDW G is a filled, double-jacketed buried wire intended for direct burial applications. Applications include distribution circuits and service entrance wires. All types are designed to withstand installation stresses. They are filled with an ETPR compound, which completely coats each insulated conductor and fills the air space between conductors. BDW G also provides protection from rodents or harsh environments. Each conductor is insulated with solid polyolefin in distinctive colors. The insulation of the tip conductor is marked with a stripe of the mating ring insulation color to reduce the possibility of splitting pairs during installation.

FEATURES	BENEFITS
Polyethylene inner jacket	 Provides additional mechanical and moisture protection
Corrugated armor	Gopher resistantProvides excellent mechanical protection
Polyethylene outer jacket	 Provides tough, flexible, protective covering that withstands exposure to sunlight, atmospheric temperatures, ground chemicals and stresses expected in standard installations

ELECTRICAL SPECIFICATIONS

All Pairs	Average Mutual Capacitance @ 1,000 Hz nF/mile (nF/km)
Maximum Individual	94 (58)
Wire Average	83 ± 7 (52 ± 4)

	Minimum Insulation Resistance	Maximum Average Attenuation 772 kHz @ 68°F (20°C) dB/kft (dB/km)	Maximum Conductor Resistance	DC Resistance Unbalance	Dielectric Strength Minimum Volts DC	
Conductor Size AWG (mm)	@ 68°F (20°C) megohm-mile (megohm-km)		@ 68°F (20°C) Ohms/mile (Ohms/km)	Maximum % Individual Pair	Conductor to Conductor	Conductor to Shield
22 (0.64)	1,000 (1,600)	4.4 (14.4)	91 (56.4)	5.0	5,000	20,000
24 (0.51)	1,000 (1,600)	5.5 (18.0)	144 (89.5)	5.0	4,000	20,000
		Crosstalk Loss dB/kft (dB/km)		C	apacitance Unbalan pF @ 1 kft (pF (

44 (144)

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Minimum NEXT @ 722 kHz

Part Number	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Package
04-052-17	2	22 (0.64)	0.32 (8.1)	55 (80)	1,000 (305)	Reel
04-053-17	2	22 (0.64)	0.32 (8.1)	55 (80)	2,500 (762)	Reel
04-055-17	2	22 (0.64)	0.32 (8.1)	55 (80)	5,000 (1,524)	Reel
04-056-17	3	22 (0.64)	0.33 (8.4)	60 (90)	1,000 (305)	Reel
04-057-17	3	22 (0.64)	0.33 (8.4)	60 (90)	2,500 (762)	Reel
04-058-17	3	22 (0.64)	0.33 (8.4)	60 (90)	5,000 (1,524)	Reel
04-067-16*	6	22 (0.64)	0.40 (10)	90 (135)	1,000 (305)	Reel
04-062-16*	6	22 (0.64)	0.40 (10)	90 (135)	2,500 (762)	Reel
04-057-16*	6	22 (0.64)	0.40 (10)	90 (135)	5,000 (1,524)	Reel
04-094-16	2	24 (0.51)	0.27 (6.9)	40 (60)	5,000 (1,524)	Reel
04-091-16	3	24 (0.51)	0.29 (7.4)	45 (65)	5,000 (1,524)	Reel



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Maximum Individual Pair to Pair

Maximum Individual Pair to Ground

80 (145)

800 (2,625)

PRODUCT DESCRIPTION

BW GDJ, available in 2, 3, 5 and 6-pair sizes, is intended for direct burial applications and is well-suited to withstand installation stresses. It is filled with an ETPR compound, which is chemically and electrically compatible with all other materials in the wire. The compound completely coats each insulated conductor and fills the air space between conductors. BW GDJ effectively combats attacks by rodents. It can be used for distribution circuits and service entrance wires. Each conductor is insulated with solid polyolefin distinctive colors. The insulation of the tip conductor is marked with a stripe of the mating ring insulation color to reduce the possibility of splitting pairs during installation. A black, polyvinyl chloride jacket is extruded over the armor to protect the core from minor mechanical damage, degradation by sunlight and the ingress of moisture.

FEATURES	BENEFITS
Polyethylene inner jacket	Provides additional mechanical and moisture protection
Corrugated armor	 Gopher resistant
 Armor's inner and outer surfaces are flooded 	 Prevents water flow between the shield and outer jacket

· Facilitates jacket removal

- surfaces are flooded
- Rip cord

CTRICAL SPECIFICATION

All Pairs	Average Mutual Capacitance @ 1,000 Hz nF/mile (nF/km)
Maximum Pair	94 (58)
Maximum Average	90 (56)

	Minimum Insulation Resistance	Maximum Average Attenuation	Maximum Conductor Resistance	DC Resistance Unbalance		tric Strength um Volts DC	
Conductor Size AWG (mm)	@ 68°F (20°C) megohm-mile (megohm-km)	772 kHz @ 68°F (20°C) dB/kft (dB/km)	@ 68°F (20°C) Ohms/mile (Ohms/km)	Maximum % Individual Pair	Conductor to Conductor	Conductor to Shield	
19 (0.90)	1,000 (1,600)	3.1 (11)	45 (28.0)	5.0	7,000	20,000	
22 (0.64)	1,000 (1,600)	4.4 (14)	91 (56.5)	5.0	5,000	20,000	

SPECIFICATIONS

Solid annealed copper

Weather resistant PVC

RoHS-compliant

Telcordia® GR-3163-CORE

ANSI/ICEA S-86-634-2011

varied to minimize crosstalk

Conductors are twisted into pairs in a manner designed

to minimize resistance unbalance; pair twist lays are

Wire core is completely filled with 80°C ETPR compound,

filling the air spaces between insulated conductors

jacket; inner and outer surfaces of the armor are flooded

Rip cord is applied beneath the inner jacket; a second rip

cord can also be applied under the outer jacket

Polyethylene inner jacket; outer surface flooded Corrugated armor applied longitudinally over the inner

Polyolefin

Conductor

Insulation

Core Assembly

Filling Compound

Standards Compliance

Telcordia is a registered trademark of Ericsson Inc.

Inner Jacket

Armor

Rip cord

Jacket

	Crosstalk Loss dB/kft (dB/km)		Capacitance Unbalance @ 1,000 Hz pF @ 1 kft (pF @ 1 km)
Minimum NEXT @ 722 kHz	44 (144)	Maximum Individual Pair to	Pair 80 (145)
		Maximum Individual Pair to G	Ground 800 (2,625)

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Package
25-020-79	2	19 (0.90)	0.37 (9.4)	80 (119)	900 (275)	Reel
25-021-79	2	19 (0.90)	0.37 (9.4)	80 (119)	7,000 (2,135)	Reel
25-063-79	2	22 (0.64)	0.37 (9.4)	80 (119)	600 (183)	Coil
25-064-79	2	22 (0.64)	0.37 (9.4)	80 (119)	5,000 (1,524)	Reel
25-351-79	3	22 (0.64)	0.33 (8.4)	70 (104)	500 (152)	Coil
25-355-79	3	22 (0.64)	0.33 (8.4)	70 (104)	600 (183)	Reel
25-360-79	3	22 (0.64)	0.33 (8.4)	70 (104)	1,200 (366)	Reel
25-354-79	3	22 (0.64)	0.33 (8.4)	70 (104)	3,000 (915)	Reel
25-361-79	3	22 (0.64)	0.33 (8.4)	70 (104)	8,000 (2,438)	Reel
25-552-79	5	22 (0.64)	0.38 (9.0)	90 (134)	500 (152)	Coil
25-555-79	5	22 (0.64)	0.38 (9.0)	90 (134)	1,000 (305)	Reel
25-547-79	5	22 (0.64)	0.38 (9.0)	90 (134)	2,000 (610)	Reel
25-553-79	5	22 (0.64)	0.38 (9.0)	90 (134)	5,000 (1,524)	Reel
25-681-79	6	22 (0.64)	0.40 (10.0)	100 (149)	800 (244)	Reel
25-654-79	6	22 (0.64)	0.40 (10.0)	100 (149)	350 (107)	Coil
25-662-79	6	22 (0.64)	0.40 (10.0)	100 (149)	1,000 (305)	Reel
25-663-79	6	22 (0.64)	0.40 (10.0)	100 (149)	2,000 (610)	Reel
25-653-79	6	22 (0.64)	0.40 (10.0)	100 (149)	3,000 (915)	Reel
25-658-79	6	22 (0.64)	0.40 (10.0)	100 (149)	5,000 (1,524)	Reel

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Off The Reel

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PRODUCT DESCRIPTION

The Buried Wire Aluminum Filled (BW AF) cable is designed for direct burial applications and is available in 2, 3, 5 and 6 pair sizes. It is filled with an ETPR compound which is chemically and electrically compatible with all other materials in the wire. The compound completely coats each insulated conductor and fills the space between conductors. BW AF can also be used for distribution circuits and service entrance wires. Each conductor is insulated with solid polyolefin in distinctive colors. The insulation of the tip conductor is marked with a stripe of the mating ring insulation color to reduce the possibility of splitting pairs during installation. A black, weather-resistant polyvinyl chloride jacket is extruded over the shield and rip cord to protect the core from minor mechanical damage, degradation by sunlight and ingress of moisture and water.

FEATURES	BENEFITS
 Non-hygroscopic core wrap 	 Protects the core and provides improved mechanical and electrical characteristics
Adhesive compound floods shield's outer surface	Provides a moisture barrier and inhibits corrosion
 Rip cord 	 Facilitates jacket removal

Individual conductor dimensions are tightly controlled to limit resistance unbalance of twisted pairs; pair Core Assembly twist lays are varied to minimize crosstalk and meet capacitance unbalance limits Core Covering Non-hygroscopic core wrap Wire core is completely filled with 80°C ETPR compound, Filling Compound filling the spaces between insulated conductors Corrugated 6-mil (2-pair/3-pair) or 8 mil (5-pair/6-pair) Shield bare aluminum tape longitudinally applied over the core wrap Rip cord Rip cord applied over shield and beneath jacket Jacket Weather-resistant PVC Telcordia® GR-3163-CORE ANSI/ICEA S-86-634-2011 Standards Compliance RoHS-compliant

Polyolefin

Solid annealed copper

Telcordia is a registered trademark of Ericsson Inc.

SPECIFICATIONS

Conductor

Insulation

ELECTRICAL SPECIFICATIONS

Rev 7/15

	Minimum Insulation Resistance	Maximum Average Attenuation			Resistance Unbalance		Dielectric S Minimum V	0	
Conductor Size AWG (mm)	@ 68°F (20°C) megohm-mile (megohm-km)	772 kHz @ 68°F (20°C) dB/kft (dB/km)	@6	68°F (20°C) nile (Ohms/km)		Maximum % Individual Pair		luctor Iductor	Conductor to Shield
22 (0.64)	1,000 (1,600)	4.4 (14)	ç	91 (56.5)		5.0	5,0	000	15,000
	Average Mutual Capacitance @ 1,000 Hz			Crosstalk Loss dB/kft (dB/km))			@1	nce Unbalance I,000 Hz
All Pairs	nF/mile (nF/km)	Minimum NEXT @ 7	22 kHz	44 (144)				pF @ 1 k	ft (pF @ 1 km)
Maximum Pair	94 (58)					Maximum Individu	ual Pair	80) (145)
Maximum Averag	e 90 (56)					to Pair			
						Maximum Individu to Ground	ual Pair	800) (2,625)

PART NUMBERS AND PHYSICAL CHARACTERISTICS

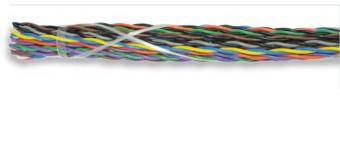
Part Number						
i ai t i tuilibei	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Package
25-063-86	2	22 (0.64)	0.27 (6.9)	43 (64)	250 (76)	Coil
25-062-86	2	22 (0.64)	0.27 (6.9)	43 (64)	700 (214)	Coil
25-257-86	2	22 (0.64)	0.27 (6.9)	43 (64)	1,250 (381)	Coil (IPL)
25-069-86	2	22 (0.64)	0.27 (6.9)	43 (64)	1,300 (396)	Reel
25-061-86	2	22 (0.64)	0.27 (6.9)	43 (64)	1,500 (457)	Reel
25-064-86	2	22 (0.64)	0.27 (6.9)	43 (64)	3,000 (915)	Reel
25-078-86	2	22 (0.64)	0.27 (6.9)	43 (64)	8,250 (2,154)	Reel
25-351-86	3	22 (0.64)	0.30 (7.6)	53 (79)	500 (152)	Coil
25-360-86	3	22 (0.64)	0.30 (7.6)	53 (79)	1,200 (366)	Reel
25-353-86	3	22 (0.64)	0.30 (7.6)	53 (79)	3,000 (914)	Reel
25-154-86	5	22 (0.64)	0.33 (8.4)	67 (100)	500 (152)	Coil
25-554-86	5	22 (0.64)	0.33 (8.4)	67 (100)	925 (282)	Coil (IPL)
25-530-86	5	22 (0.64)	0.33 (8.4)	67 (100)	300 (92)	Reel
25-527-86	5	22 (0.64)	0.33 (8.4)	67 (100)	900 (274)	Reel
25-525-86	5	22 (0.64)	0.33 (8.4)	67 (100)	925 (282)	Reel
25-549-86	5	22 (0.64)	0.33 (8.4)	67 (100)	5,500 (1,676)	Reel
25-667-86	6	22 (0.64)	0.37 (9.4)	81 (120)	600 (182)	Coil
25-680-86	6	22 (0.64)	0.37 (9.4)	81 (120)	700 (213)	Reel
25-685-86	6	22 (0.64)	0.37 (9.4)	81 (120)	1,200 (366)	Reel
25-654-86	6	22 (0.64)	0.37 (9.4)	81 (120)	2,500 (762)	Reel
25-682-86	6	22 (0.64)	0.37 (9.4)	81 (120)	4,000 (1,219)	Reel

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Non-Jacketed Tight Twist Cable Core

RoHS-compliant



PRODUCT DESCRIPTION

This Non-jacketed Cable Core is designed for use on the back side of cross connect and terminal blocks located in a cross connect cabinet adjacent to the remote terminal. Without a jacket this product must always be utilized in a cabinet, enclosure or indoors. These products offer enhanced crosstalk performance in a 100 Ohm design for supporting digital subscriber line (xDSL) technologies and higher IPTV data speeds.

FEATURES	BENEFITS
• 24 AWG solid copper conductors	 Ideal for terminal block stubs
Polyolefin insulation	 Greater crush resistance and improved transmission characteristics
 Pairing tight twist (CAT 5 like twists) 	 Enhanced capabilities for xDSL signals
Standard telephony solid colors	 Easy conductor identification
 No outer jacket 	Easy routing
 Binder strings 	 Holds pair groups together

SPECIFICATIONS

Standards Compliance

ART NUMBERS AND	PHYSICAL CHARACTI	ERISTICS				
Part Number	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m	Package
11-003-53	25	24 (0.51)	0.41 (10)	82 (122)	5,000 (1,524)	Reel
11-003-45	50	24 (0.51)	0.57 (14)	164 (244)	5,000 (1,524)	Reel
11-003-46	100	24 (0.51)	0.82 (21)	328 (488)	5,000 (1,524)	Reel

Air Pipe



SPECIFICATIONS	
Shield	4 mil aluminum tape formed longitudinally with bonded overlap
Jacket	Black, medium density polyethylene jacket extruded over and laminated to the aluminum shield
Fitting Size in (mm)	1⁄2 (12.7)
Standards Compliance	RoHS-compliant

PRODUCT DESCRIPTION

Air Pipe is used for supplying air pressure to underground pressurized cable systems. Air pressure is distributed off the air pipe at regular intervals and applied to pressurized cables to supplement and boost air pressure along the cable route. It is normally placed in ducts. The laminated aluminum and polyethylene construction assures water vapor will not penetrate to the pipe interior.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Outer Nominal Diameter in (mm)	Inner Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package
85-019-25	0.71 (18)	0.59 (15)	56 (83)	1,980 m Reel
85-018-25	0.71 (18)	0.59 (15)	56 (83)	6,500' Reel



PRODUCT DESCRIPTION

Bridle Wire is used to extend the telephone circuit from aerial distribution cable terminals to building entrance protectors or network interface units on subscriber premises. This wire has a black PVC jacket with a rip cord for easy access to conductors.

FEATURES	BENEFITS
PVC jacket	• Provides a tough flexible protective covering that withstands exposure to sunlight and stresses encountered in standard installations



SPECIFICATIONS	
Conductor	Solid annealed copper
Insulation	Color coded, solid, polyolefin tip conductors are striped with mating color for positive identification
Jacket	PVC
Standards Compliance	RoHS-compliant

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Pair Count	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight Ibs/kft (kg/km)	Package
12-262-01	2	22 (0.64)	0.19 (4.8)	19 (28)	600' POP™ box
12-642-01	6	22 (0.64)	0.27 (6.9)	42 (63)	450' Coil
12-842-01	12	22 (0.64)	0.33 (8.4)	73 (109)	250' Coil

Temporary Drop Wire

TDW

PRODUCT DESCRIPTION

Safety orange colored Temporary Non-shielded Drop Wire intended to temporarily extend or replace service.

SPECIFICATIONS	
Conductor	Solid bare copper
Insulation	Polyolefin
Jacket	PVC
Jacket Color	Bright Orange
Standards Compliance	RoHS-compliant

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Pair Count	AWG (mm)	Wire Color	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package
12-311-36	2	22 (0.64)	Red/Green, Black/Yellow	0.14 (3.6)	13 (19)	1,000' POP™ box
12-331-36	1	24 (0.51)	Red/Green	0.13 (3.3)	7 (10)	2,000' POP box
12-322-36	2*	24 (0.51)	Red/Green	0.13 (3.3)	7 (10)	2,000' POP box

*Note: 2 conductors, not a pair.

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Ed 13.0



E-Block Wire



SPECIFICATIONS				
Conductor	Copper covered steel			
Dual Insulation	Inner layer: color coded PVC Outer layer: black PVC			
Standards Compliance	TR-TSY-000127 UL® 83 VW1 RoHS-compliant			

PRODUCT DESCRIPTION

E-Block Wire is used for "ring wiring" of buildings and as a fusible link for aerial distribution. E-Block Wire is available in twisted pair and quad forms. It consists of copper clad steel conductors. Each conductor is dual insulated with a color coded inner layer of PVC and a black outer layer of PVC.

UL is a registered trademark of UL LLC.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Style	AWG (mm)	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Standard Length ft (m)	Package
12-140-03	Pair	20 (0.13)	0.20 (5.1)	14 (20)	400 (122)	Knock-out box
12-220-03	Quad	20 (0.13)	0.24 (6.1)	32 (47)	250 (76)	Knock-out box



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Bare or Jacketed

PRODUCT DESCRIPTION

Ground Wire is used specifically to ground electrical devices and to maintain shield continuity at cable splices.

The wire is intended for use in accordance with Article 800.100, of the National Electrical Code.

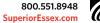
SPECIFICATIONS	
Conductor	Solid annealed copper
Insulation	Weather-resistant PVC
Performance Compliance	General Use - 300 Volt Communication RoHS-compliant
NRTL Programs	UL® Listed

UL is a registered trademark of UL LLC.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	AWG	Jacket Color	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package
12-001-04	6	Black	0.22 (5.6)	91 (135)	500' Plywood spool
12-101-04	6	Gray	0.22 (5.6)	91 (135)	200' Boxed coil
12-102-04	6	Gray	0.22 (5.6)	91 (135)	200' Coil
12-105-04	6	Gray	0.22 (5.6)	91 (135)	500' Coil
12-106-04	6	Gray	0.22 (5.6)	91 (135)	500' Boxed coil
12-107-04	6	Gray	0.22 (5.6)	91 (135)	600' Coil
12-104-04	6	Gray	0.22 (5.6)	91 (135)	4,000' Reel
12-018-04	6	Green	0.22 (5.6)	91 (135)	500' Reel
12-905-04	6	Bare	0.16 (4.1)	79 (118)	600' Plastic spool
12-901-04	6	Bare	0.16 (4.1)	79 (118)	200' Boxed coil
12-906-04	6	Bare	0.16 (4.1)	79 (118)	200' Coil
12-902-04	6	Bare	0.16 (4.1)	79 (118)	2,500' Plywood spo
12-903-04	6	Bare	0.16 (4.1)	79 (118)	300' Plastic spool
12-910-04	6	Bare	0.16 (4.1)	79 (118)	315' Plastic spool
12-904-04	6	Bare	0.16 (4.1)	79 (118)	4,000' Reel
12-907-04	6	Bare	0.16 (4.1)	79 (118)	500' Coil
12-908-04	6	Bare	0.16 (4.1)	79 (118)	600' Coil
12-111-04	10	Gray	0.14 (3.6)	37 (55)	200' Boxed coil
12-112-04	10	Gray	0.14 (3.6)	37 (55)	500' Boxed coil
12-011-04	10	Black	0.14 (3.6)	37 (55)	500' Knock-out bo
12-012-04	10	Black	0.14 (3.6)	37 (55)	500' Spool
12-016-04	10	Green	0.14 (3.6)	37 (55)	500' Plastic spool
12-121-04	12	Gray	0.12 (3.0)	25 (37)	200' Boxed coil
12-122-04	12	Gray	0.12 (3.0)	25 (37)	300' Boxed coil
12-123-04	12	Gray	0.12 (3.0)	25 (37)	500' Plywood spoo

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SPECIFICATIONS	
Conductor	Solid bare copper
Insulation	Flame retardant PVC insulated conductor each identified by a solid color
Performance Compliance	UL® 444 CSA C22.2 No. 214-08 RoHS-compliant
NRTL Programs	UL, c(UL) Listed CM
UL is a reaistered trademark of UL LLC.	

PRODUCT DESCRIPTION

Cross-Connect Category 5 Wire is designed with a tighter twist to support higher data speeds and is intended for connections in cross connect cabinets.

Part Number	Pair Count	AWG (mm)	Wire Color	Nominal Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Package
02-360-23	1	22 (0.64)	White/Red	0.07 (1.8)	5 (7)	400' Spool
02-361-23	1	22 (0.64)	White/Violet	0.07 (1.8)	5 (7)	400' Spool
02-362-23	1	22 (0.64)	Violet/Blue	0.07 (1.8)	5 (7)	400' Spool
02-011-23	1	24 (0.51)	White/Blue	0.08 (2.0)	5 (7)	1,000' Spool
02-010-23	1	24 (0.51)	White/Green	0.08 (2.0)	5 (7)	1,000' Spool
02-031-23	1	24 (0.51)	Yellow/Red	0.08 (2.0)	5 (7)	1,000' Spool
02-032-23	1	24 (0.51)	Violet/Blue	0.08 (2.0)	5 (7)	1,000' Spool
02-111-23	1	24 (0.51)	White/Blue	0.08 (2.0)	5 (7)	6,000' Spool
02-131-23	1	24 (0.51)	Yellow/Red	0.08 (2.0)	5 (7)	6,000' Spool
02-050-23	1	24 (0.51)	White/Orange	0.08 (2.0)	5 (7)	1,000' Spool
02-006-23	1	24 (0.51)	White/Red	0.08 (2.0)	5 (7)	1,000' Spool
02-211-23	1	24 (0.51)	White/Blue	0.08 (2.0)	5 (7)	6,000' Spool
02-033-23	1	24 (0.51)	Yellow/Blue	0.08 (2.0)	5 (7)	1,000' Spool
02-113-23	1	24 (0.51)	Yellow/Blue	0.08 (2.0)	5 (7)	6,000' Spool
02-110-23	1	24 (0.51)	White/Green	0.08 (2.0)	5 (7)	6,000' Spool
02-132-23	1	24 (0.51)	Violet/Blue	0.08 (2.0)	5 (7)	6,000' Spool
11-005-90	1	24 (0.51)	Violet/Blue	0.08 (2.0)	5 (7)	500' Spool
02-350-23	1	24 (0.51)	White/Orange	0.08 (2.0)	5 (7)	400' Spool
02-311-23	1	24 (0.51)	White/Blue	0.08 (2.0)	5 (7)	500' Spool
02-020-23	2	24 (0.51)	White/Blue, White/Orange	0.12 (3.0)	5 (7)	1,000' Spool
02-021-23	2	24 (0.51)	Red/Blue, Red/Orange	0.12 (3.0)	5 (7)	1,000' Spool
02-022-23	2	24 (0.51)	White/Orange, White/Green	0.12 (3.0)	5 (7)	1,000' Spool

Violet/Blue, Violet/Orange



02-024-23

2

24 (0.51)

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0.12 (3.0)

5(7)

1,000' Spool

PRODUCT DESCRIPTION

Indoor/Outdoor Cross-Connect Wire is intended for cross-connecting points in building entrance enclosures at subscriber's premises and/or in Outside Plant (OSP) enclosures. Each insulated conductor is identified by a combination of solid insulation color, except as noted.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

AWG (mm)

22 (0.64)

22 (0.64)

22 (0.64)

22 (0.64)

22 (0.64)

22 (0.64)

22 (0.64)

24 (0.51)

24 (0.51)

24 (0.51)

24 (0.51)

24(051)

24 (0.51)

24 (0.51)

24 (0.51)

24 (0.51)

24 (0.51)

24 (0.51)

24 (0.51)

Wire Color

White/Blue

Yellow/Blue

Yellow/Blue

White/Red

White/Black

White/Red

White/Black

White/Black

White/Red

Yellow/Blue

White/Blue

White/Green

White/Blue, White/Orange

Red/Blue, Red/Orange

Yellow/Blue, Yellow/Orange

White/Orange, White/Green

White/Blue, White/Orange, White/Green

White/Blue, White/Orange, White/Green

White/Blue, White/Orange,

White/Green, White/Brown

Pair

Count

1

1

1

1

1

1

1

2

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

1

2

2

2

2

3

3

4

Part Number

02-111-13

02-102-13

02-E02-13

02-113-13

02-114-13

02-513-13*

02-514-13*

02-120-13

02-H12-13

02-G11-13

02-G50-13

02-H13-13

02-G16-13

02-706-13*

02-001-13

02-050-13

02-E12-13

02-006-13

02-D06-13

02-053-13

02-004-13

02-005-13

02-054-13

02-702-13*

02-002-13

02-409-13

02-401-13

02-450-13

02-051-13

02-052-13

02-006-13

02-D02-13

11-001-02

11-001-03

02-222-13

02-221-13

02-224-13

02-223-13

02-032-13

02-D30-13

02-041-13

Rev 7/15

SPECIFICATIONS	
Conductor	Solid bare copper
Insulation	Semi-rigid PVC
Standards Compliance	UL® 444 CSA C22.2 No. 214-08 RoHS-compliant
NRTL Programs	UL, c(UL) Listed CM
III is a registered trademark of III IIC	

Approx. Weight

lbs/kft (kg/km)

4 (9)

4 (9)

4 (9)

4 (9)

4 (9)

4 (9)

4 (9)

9 (20)

3 (7)

3 (7)

3 (7)

3 (7)

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3 (7)

3 (7)

3(7)

6 (13)

6 (13)

6(13)

6 (13)

9 (20)

9 (20)

13 (29)

UL is a registered trademark of UL LLC

Overall Nominal

Diameter

in (mm)

0.07 (1.8)

0.07 (1.8)

0.07 (1.8)

0.07 (1.8)

0.07 (1.8)

0.07 (1.8)

0.07 (1.8)

0.07 (1.8)

0.07 (1.8)

0.07 (1.8)

0.07 (1.8)

0.07 (1.8)

0.10 (2.5)

0.10 (2.5)

0.10 (2.5)

0.10 (2.5)

0.12 (3.0)

0.12 (3.0)

0.15 (3.8)

Individual Nominal

Diameter

in (mm)

0.036 (0.9)

0.036 (0.9)

0.036 (0.9)

0.036 (0.9)

0.036 (0.9)

0.036 (0.9)

0.036 (0.9)

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0.036 (0.9)

0.036 (0.9)

0.036 (0.9)

0.036 (0.9)

0.036 (0.9)

OSP CABLE

Standard

Length

ft (m)

1,000 (305)

1,000 (305)

3,000 (915)

1.000 (305)

1,000 (305)

1,000 (305)

1,000 (305)

1,000 (305)

400 (122)

400 (122)

400 (122)

400 (122)

400 (122)

1,000 (305)

1,000 (305)

1,000 (305)

1.000 (305)

1,000 (305)

600 (183)

1,000 (305)

1,000 (305)

1,000 (305)

1,000 (305)

1.000(305)

1,000 (305)

3,000 (915)

3.000 (915)

3.000 (915)

1,000 (305)

1,000 (305)

1,000 (305)

600 (183)

1,000 (305)

2.000 (610)

1,000 (305)

1.000 (305)

1.000 (305)

1,000 (305)

1,000 (305)

600 (183)

1,000 (305)

Package

Spool

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22 (0.64)	White/Blue, White/Orange	0.036 (0.9)	0.11 (2.8)	
22 (0.64)	White/Violet	0.036 (0.9)	0.07 (1.8)	
22 (0.64)	White/Blue	0.036 (0.9)	0.07 (1.8)	
22 (0.64)	White/Orange	0.036 (0.9)	0.07 (1.8)	
22 (0.64)	Red/White	0.036 (0.9)	0.07 (1.8)	
22 (0.64)	Violet/Blue	0.036 (0.9)	0.07 (1.8)	
24 (0.51)	White/Red	0.036 (0.9)	0.07 (1.8)	
24 (0.51)	White/Blue	0.036 (0.9)	0.07 (1.8)	
24 (0.51)	White/Orange	0.036 (0.9)	0.07 (1.8)	
24 (0.51)	White/Orange	0.036 (0.9)	0.07 (1.8)	
24 (0.51)	White/Red	0.036 (0.9)	0.07 (1.8)	
24 (0.51)	White/Red	0.036 (0.9)	0.07 (1.8)	
24 (0.51)	Red/Blue	0.036 (0.9)	0.07 (1.8)	
24 (0.51)	Red/Green	0.036 (0.9)	0.07 (1.8)	
24 (0.51)	Red/Slate	0.036 (0.9)	0.07 (1.8)	
24 (0.51)	Red/Black	0.036 (0.9)	0.07 (1.8)	
24 (0.51)	Red/Black	0.036 (0.9)	0.07 (1.8)	
24 (0.51)	Yellow/Blue	0.036 (0.9)	0.07 (1.8)	
24 (0.51)	Blue/Black	0.036 (0.9)	0.07 (1.8)	
24 (0.51)	White/Blue	0.036 (0.9)	0.07 (1.8)	
24 (0.51)	White/Orange	0.036 (0.9)	0.07 (1.8)	
24 (0.51)	White/Green	0.036 (0.9)	0.07 (1.8)	

*Solid color (not band marked)

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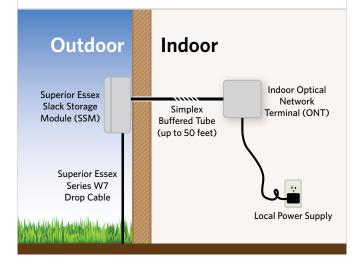
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Slack Storage Module (SSM)







FTTP Tight Buffered Indoor/Outdoor Drop Series W7

PRODUCT AND SOLUTION DESCRIPTION

The Slack Storage Module (SSM) provides water-tight storage for up to 50 feet of excess simplex fiber cable at the side of an FTTP residence. The SSM is specifically designed for use with the Superior Essex tight buffered indoor/outdoor drop cable to provide a substantial cost savings for FTTP installations - around \$200 per connected location.*

The SSM provides protection of excess simplex fiber and convenient outdoor access to the fiber if a splice is necessary in the future.

The combination of the SSM and tight buffered drop cable enables the Optical Network Terminal (ONT) to be located inside the premises without the need for a termination or splice point on the exterior of the home. Our unique tight buffered drop cable is actually two cables in one: a rugged 300-pound rated OSP drop cable with an internal flexible OFNR rated simplex cable. By simply removing the outer PVC jacket and strength rods, this cable can be easily transitioned to indoor use without a splice point between the ONT and pedestal or terminal closure. For that reason, a splice point or termination is no longer required at the side of the home.

By locating the ONT inside the premises, the power supply can be plugged into any convenient wall outlet, eliminating the cost of running power to the ONT and the need to hire an electrician - further reducing installation costs. Another cost-savings benefit when using our tight buffered simplex cable design is having the capability to create a faster and more accurate termination to an SC connector.

*Savings are realized from elimination of electrician costs, reduced cost for indoor ONT, and reduced cost for fiber splicing.

APPLICATIONS

· Fiber to the Home or Premises applications with indoor ONT

SYSTEM SOLUTION BENEFITS

- Only one technician is required for complete installation (no electrician required)
- Tight buffered optical fiber offers easier and faster termination than loose fiber termination or fusion splicing
- SSM provides an inexpensive way to access and store excess fiber
- Enables use of indoor-rated ONT that is less costly than outdoorrated ONT
- Enables use of indoor backup power supply that is less costly than outdoor rated power supply

MODULE FEATURES

MODULE BENEFITS

- Compact, easy-to-install enclosure design
- Weather-resistance enclosure with two levered latches and sealing gasket on the cover
- Drop cable grommet ports at top and bottom of enclosure
- Storage spool for 50 feet of fiber drop slack storage
- Cable tie provisions for both cable sheath and buffer jacket

- Reduces initial cost of installation
- Provides superior environmental protection from rain, ice, dust and insects
- Provides flexibility and diversity in routing drop cable
- Provides optimum fiber management and generous slack storage
- Provides rigid and secure drop cable attachment

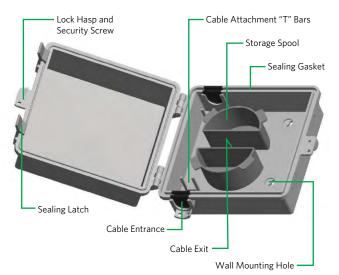


C-2



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Slack Storage Module (SSM)



	Water-Blocking Dielectric Strength Member
	OFNR Jacket
	Aramid Yarns
	900 µm Tight Buffered Optical Fiber
	Water-Blocking Thread
	Water-Blocking Dielectric Strength Member
•	Optional Toneable Copper Element

FTTP Tight Buffered Indoor/Outdoor Drop Series W7

UV Resistant OFNR Jacket

MODULE SPECIFICATIONS	
Dimensions in (mm)	Height: 6.7 (170) Width: 6.7 (170) Depth: 3.6 (92)
Weight Ibs (kg)	0.5 (0.23)
Material	ABS plastic
Material Color	Light grey
Material Thickness in (mm)	0.10 (2.5)
Cable Entry	Two (2) in One (1) out
Maximum I/O Drop Cable Diameter in (mm)	0.18 x 0.40 (4.6 x 10.2)
Installation	Wall
Locking Mechanism	Two (2) levered cover latches and captive pin-in-hex security screw
Standards Compliance	Designed to meet NEMA 3 rating for environmental protection

MODULE PART NUMBER		
Part Number	Description	
SSM-2C000	FTTP Slack Storage Module (SSM)	

Rev 7/15 Ed 13.0

CABLE SPECIFICATIONS	
Simplex OFNR Nominal Diameter in (mm)	0.11 (2.9)
Simplex OFNR Bend Radius in (mm)	Install: 2.2 (56) Long Term: 1.1 (28)
Cable Bend Radius in (mm)	Install: 3.6 (91) Long Term: 1.8 (46)
Cable Tensile Load lbs (N)	Install: 300 (1,350) Long Term: 90 (405)
Maximum Span Length at 1% Sag ft (m)	Light Loading: 350 (101) Medium Loading: 275 (84) Heavy Loading: 150 (46)
Standards Compliance	Telcordia® GR-20-CORE RoHS-compliant
Telcordia is a reaistered trademark of Fricsson Inc.	

CABLE ENVIRONMENTAL SPECIFICATIONS		
Operation/Storage	-40°C to +70°C	
Installation	-10°C to +70°C	

CABLE MACRO BENDING PERFORMANCE		
10 Turns on 15 mm Radius Mandrel	ITU G 657 A	TeraFlex [®] SMF
Macro bending loss @ 1550 nm	0.25 dB Max.	≤ 0.20 dB
Macro bending loss @ 1625 nm	1.00 dB Max.	≤ 0.50 dB
1 Turn on 10 mm Radius Mandrel	ITU G 657 A	TeraFlex SMF
Macro bending loss @ 1550 nm	0.75 dB Max.	≤ 0.20 dB
Macro bending loss @ 1625 nm	1.50 dB Max.	≤ 0.20 dB
TeraElex is an ITLLG 657 A optical fiber that is co	nnletely compatible with 17	TU G 652 D

IeraFlex is an ITU G 657 A optical fiber that is completely compatible with ITU G 652 D optical fibers. TeraFlex exceeds the performance standards of ITU G 657 A as listed above.

CABLE PART NUMBERS AND PHYSICAL CHARACTERISTICS				
Part Number	Description	Fiber Count	Nominal Dimensions in (mm)	Weight lbs/kft (kg/km)
W7001KU01	Universal	1	0.32 (8.2) x 0.17 (4.5)	29 (44)
W7002KU01	Universal	2	0.32 (8.2) x 0.17 (4.5)	29 (44)
W7001K101	Toneable	1	0.40 (10.2) x 0.17 (4.5)	31 (47)
W7002K101	Toneable	2	0.40 (10.2) x 0.17 (4.5)	31 (47)

CABLE PREMISES CABLE TABLE OF CONTENTS

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Fiber In-Line Splice Closure (FIC)





SPECIFICATIONS Material ABS/Polycarbonate Two (2) 3-port grommets

Cable Entry Ports F12Two (2) 4-port flat drop grommets (one (1) installed at each end) Four (4) single feeder port grommets (two (2) installed at each end) Four (2) installed at each end) Four (2) installed at each end) Four (2) installed at each end)Cable Diameter Range in (mm)0.375 - 1.0 (8 - 26)Installation/ApplicationFIC-AD: Below-grade or aerial FIC-BD/FIC-CD: AerialAll Kits Include• One (1), 24-fiber splice tray (FIC-TD240) • 24 splice sleeves • Four (4) transport tubes • Eight (8) cable ties • One (1) Velcro strap • One (1) vacuum grease tube • One (1) silicone sealant tube • One (1) silicone sealant tube • Four (4) large cable tiesFIC-BD100 and FIC-CD100 Kits Also Include• Two (2) aerial strand hangers • One (1) ¼ inch hex Allen toolStandards ComplianceTelcordia® Technologies GR-771-CORE, Issue 2 Rural Utilities Service (RUS) Listed	Cable Entry Ports FIC	(installed at each end) One (1) 2-port/multi-drop port grommet (included)
in (mm) 0.375 - 1.0 (8 - 26) Installation/Application FIC-AD: Below-grade or aerial FIC-BD/FIC-CD: Aerial All Kits Include • One (1), 24-fiber splice tray (FIC-TD240) • 24 splice sleeves • Four (4) transport tubes • Eight (8) cable ties • One (1) Velcro strap All Kits Include • Four (4) cable hose clamps • One (1) vacuum grease tube • One (1) valicone tape sheet • One (1) silicone sealant tube • Four (4) large cable ties FIC-BD100 and FIC-CD100 • Two (2) aerial strand hangers • One (1) ½ inch hex Allen tool Standarde Compliance Technologies GR-771-CORE, Issue 2	2	(one (1) installed at each end) Four (4) single feeder port grommets (two (2) installed at each end) Two (2) 4-port round drop grommets
Installation/Application FIC-BD/FIC-CD: Aerial FIC-BD/FIC-CD: Aerial • One (1), 24-fiber splice tray (FIC-TD240) • 24 splice sleeves • Four (4) transport tubes • Eight (8) cable ties • One (1) Velcro strap All Kits Include • Four (4) cable hose clamps • One (1) vacuum grease tube • One (1) multi-drop port grommet • One (1) silicone sealant tube • Four (4) large cable ties FIC-BD100 and FIC-CD100 • Two (2) aerial strand hangers Kits Also Include • One (1) ½ inch hex Allen tool		0.375 - 1.0 (8 - 26)
24 splice sleeves Four (4) transport tubes Eight (8) cable ties One (1) Velcro strap Four (4) cable hose clamps One (1) vacuum grease tube One (1) multi-drop port grommet One (1) silicone tape sheet One (1) silicone sealant tube Four (4) large cable ties Telcordia® Technologies GR-771-CORE, Issue 2 Telcordia® Technologies GR-771-CORE, Issue 2	Installation/Application	
Kits Also Include • One (1) ¼ inch hex Allen tool Standard: Compliance Telcordia® Technologies GR-771-CORE, Issue 2	All Kits Include	 24 splice sleeves Four (4) transport tubes Eight (8) cable ties One (1) Velcro strap Four (4) cable hose clamps One (1) vacuum grease tube One (1) nulti-drop port grommet One (1) silicone tape sheet One (1) silicone sealant tube
	Standards Compliance	

PRODUCT DESCRIPTION

The Superior Essex Fiber In-Line Splice Closure (FIC) Series is made of a rugged, environmentally-resistant, molded plastic and grommet seal, which makes these optical fiber splice closures ideal for Outside Plant (OSP) below-grade and aerial applications.

The FIC Series is available in a single-bolt/latch, "clamshell" design, as well as a multi-bolt, two-piece design. The single-bolt/latch closure is specially designed for aerial applications with provisions for strand-mounting and hanger hardware included. This closure, when opened, allows the splice trays to fold open at a 90° angle, thus creating a convenient position for splicing. The multi-bolt, two piece closure is best suited for below-grade applications, with a circumferential bolt pattern to ensure a secure, water-proof seal and a flash valve for seal verification.

The FIC Series offers two sizes of closures to accommodate splice capacities up to 192 Loose Buffer Tube (LBT) and 432 Ribbon fiber counts. A variety of port grommets are included to support in-line, branch and multiple drop cable configurations. An SC/APC adapter panel option, for use of preconnectorized drops, is available for the Type B and Type C closure models. Additional grommets, hanger hardware and splice trays are available as Closure Accessory Kits.

The FIC Series is Telcordia $\ensuremath{^{\scriptsize @}}$ Technologies GR-771-CORE compliant and RUS Listed.

APPLICATIONS

 The FIC Closure Series supports FTTx deployments where aerial or below-grade, sealed optical fiber splicing is required for in-line, branch and multiple drop cable applications.

BENEEITS

FEATURES

- Compact design, easy to install and re-enter (Single-bolt/latch opens with ¼ inch hex Allen tool)
- Rugged, water-proof, UV-resistant closures design
- Variety of sealing grommet configurations
- For strand-mount installation, 90° hinged splice tray position for splicing
- Offered in multiple LBT fiber splice capacities
- Accommodates loose buffer tube, ribbon fiber types and splitter tray splice applications

- Reduces installation and maintenance costs
- Provides superior environmental protection from water, dust, insect and rodent intrusion
- Provides flexibility by supporting a variety of cable types, sizes and routing configurations
- Allows easy access to splices and provides "work table" position for ease of splicing
- Easier selection to support the majority of fiber applications
- Provides optimum fiber cable selection flexibility, fiber management, generous slack provisioning and splitter mounting capability

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PART NUMBERS, CAPACITIES AND PHYSICAL CHARACTERISTICS Splice Tray Maximum Fiber **Buffer Tube** Capacity Splice Capacity Storage LBT SC/APC Ribbons Height Width Depth Weight Sealing/Locking LBT Ribbon (8 ft per (8 ft per Adapter Part Number in (mm) in (mm) in (mm) lbs (kg) Method LBT Ribbon (24 per tray) (144 per tray) tube) ribbon) Capacity FIC-AD100 6.69 (170) 16.93 (430) 4.33 (110) 6.61 (3.0) Multi-Bolt/Two-piece 4 2 96 288 8 24 _ FIC-BD100 7.48 (190) 16.93 (430) 3.94 (100) 7.50 (3.4) Single-Bolt/Latch 4 2 96 288 8 24 FIC-BD10A 3.94 (100) 4 2 96 8 24 8 7.48 (190) 16.93 (430) 7.50 (3.4) Single-Bolt/Latch 288 FIC-CD100 8 3 7.48 (190) 16.93 (430) 5.32 (135) 9.26 (4.2) Single-Bolt/Latch 192 432 16 36 3 12 FIC-CD10A 7.48 (190) 16.93 (430) 5.32 (135) 9.26 (4.2) Single-Bolt/Latch 6 144 432 16 36 FI2-BD100 7.52 (191) 20.35 (517) 4.53 (115) 7.94 (3.6) Single Bolt/Latch 4 2 96 288 8 24 7.52 (191) 192 FI2-CD100 20.35 (517) 5.67 (144) 8.60 (3.9) Single Bolt/Latch 8 3 432 16 36

ACCESSORIES		
Part Number	Description	Kit Components
FIC-TD120	Splice Tray Kit - 12 LBT or 144 Ribbon	Splice tray, 12 splice sleeves, 4 transport tubes, 8 cable ties
FIC-TD240	Splice Tray Kit - 24 LBT	Splice tray, 24 splice sleeves, 4 transport tubes, 8 cable ties
FSP-I-1x2	Splitter – 1 x 2	PLC Splitter single mode fiber input, single mode ribbon output
FSP-I-1x4	Splitter – 1 x 4	PLC Splitter single mode fiber input, single mode ribbon output
FSP-I-1x8	Splitter – 1 x 8	PLC Splitter single mode fiber input, single mode ribbon output
FSP-I-1x16	Splitter – 1 x 16	PLC Splitter single mode fiber input, single mode ribbon output
FSP-I-1x32	Splitter – 1 x 32	PLC Splitter single mode fiber input, single mode ribbon output
FIC-G3P25	End Grommet Kit - 3 ports	25 end-grommets, 25 retaining rings, 25 support bars
FIC-G4P25	End Grommet Kit - 4 ports	25 end-grommets, 25 retaining rings, 25 support bars
FIC-GCP25	End Grommet Kit - 2 ports, 16 drop ports	25 end-grommets, 25 retaining rings, 25 support bars
FI2-G1P25	End Grommet Kit – feeder, 1 port	25 end grommets
FI2-G4FP25	End Grommet Kit - flat drop, 4 ports	25 end grommets
FI2-G4RP25	End Grommet Kit - round drop, 4 ports	25 end grommets
FIC-HA000	Aerial Hanger Kit	2 hanger arms, 2 mounting screws
FIC-PMBA1	Pole Mount Kit - Band	T-Bracket with stainless steel band
FIC-PMBO1	Pole Mount Kit - Bolt	T-Bracket with bolts

*See the "FTTP Accessories" section for more detailed information.

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Fiber Dome Splice Closure (FDC)



COMPONENT CONTENTS

Item	FD2-A	FD2-B	FD2-C	FD2-D	Remarks
Dome cover	1	1	1	1	Factory installed
Closure base with gasket	1	1	1	1	Factory installed
Locking collar	1	1	1	1	Factory installed
Distribution cable entry grommets	2	4	4	4	Included
Round drop cable (7 - 9 mm) entry grommets	2	4	4	4	Included
Flat drop cable entry grommets	2	4	4	4	Factory installed
Cable ties	8	8	16	24	Included
Vacuum grease tube	1	1	2	2	Included
Silicone sealant tube	1	1	2	2	Included
Hose clamps	2	4	8	8	Included
Strength member attachment brackets	2	4	4	4	Included
Extra compression nut for feeder/drop port	1	1	1	1	Included
Loop-thru port spacers	8	8	8	8	Included
Loop-thru entry grommets	6	6	6	6	2 factory installed 4 included
Aerial hanger kit	1	1	1	1	Included
Sealing tape strips	2	2	4	4	Included
24-fiber splice tray (FDC-TD240)	1	1	-	-	Factory installed
36-fiber splice tray (FDC-TD360)	-	-	1	-	Factory installed
72-fiber splice tray (FDC-TD720)	-	-	-	1	Factory installed
Velcro splice tray strap	1	1	1	1	Included
Splice sleeves	24	24	36	72	Included
Spiral transportation tubes	4	4	6	12	Included
Outside diameter ruler	1	1	1	1	Included
Silica gel pack	1	1	1	1	Included
Alcohol tissue pack	1	1	1	1	Included

SPECIFICATIONS	
Material	ABS/polycarbonate
Dome Sealing/Locking	Single-latch sealing ring with padlock hasp
Seal Verification	Flash test air valve
Standards Compliance	Telcordia® Technologies GR-771-CORE, Issue 2 Rural Utilities Service (RUS) Listed

Telcordia is a registered trademark of Ericsson Inc.

PRODUCT DESCRIPTION

The Superior Essex Fiber Dome Splice Closure (FDC) Series is made of a rugged, environmentally-resistant, molded plastic that makes this optical fiber splice closure ideal for Outside Plant (OSP) below-grade, aerial and direct buried applications.

The FDC Closure Series employs a lightweight, ribbed dome with a one-piece latch sealing ring to provide a low-cost, water-proof, impactresistant closure for optimum fiber splice protection. The FDC is designed to support butt-end, branch and express cable configurations as well as round or flat drops. All FDC closures include a flash valve for seal verification.

The FDC Series offers four sizes of closures to accommodate splice capacities up to 576 Loose Buffer Tube (LBT) or 1,152 ribbon fiber counts. Most ancillary components necessary for installation are included with each FDC closure to simplify the installation. Additional cable grommets and splice trays are available as accessories.

The FDC Series is Telcordia® Technologies GR-771-CORE compliant.

APPLICATIONS

• FTTx deployments where aerial, below-grade and direct buried, sealed optical fiber splicing is required

BENEFITS

FEATURES

•	Lightweight, easy to install and re-enterable using a compression grommet cable sealing design with split base for express cables	•	Reduces installation and maintenance costs
•	Designed to support multiple	•	Reduces the number of closures

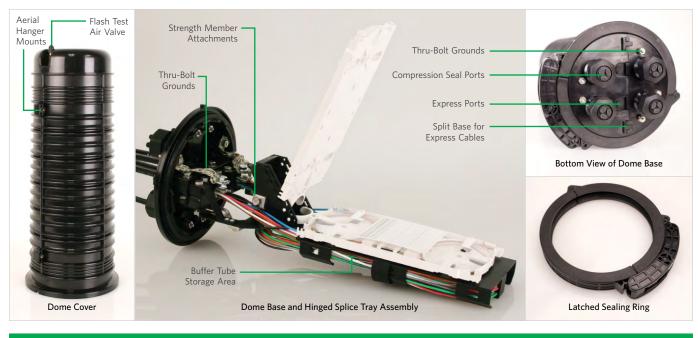
- Durable, water-proof, UV-resistant compact design
- Designed for wide range of installation methods
- Variety of cable entry sizes and configurations
- Universal, hinged splice tray configuration
- Offered in four LBT fiber splice capacities: 96, 144, 288 and 576
- Includes ancillary components to support most installations

- Provides superior environmental protection from water, dust, insect and rodent intrusion
- Supports aerial, below-grade, direct-buried and pedestal applications
- Provides flexibility for cable routing diversity and drop cables
- Accommodates splice trays from popular suppliers
- Easy selection to support majority of fiber applications
- Reduced installation costs and inventory of "small parts"



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Part Number	Number of Round Ports ¹	Round Port Cable O.D. Range in (mm)	Number of Express Ports	Express Port Cable O.D. Range in (mm)	Maximum Round or Flat Drops	Round/Flat Drop O.D. in (mm)	Port Sealing Method	Number of Thru-Bolt Grounds
FD2-AD10F	2	0.28-0.63 (7-16)	1 Dual cable	0.39-0.79 (10-20)	6	0.36/0.18 x 0.31 (9/4.5 x 8)	Compression seal	4
FD2-BD10F	4	0.28-0.63 (7-16)	1 Dual cable	0.39-0.79 (10-20)	12	0.36/0.18 x 0.31 (9/4.5 x 8)	Compression seal	6
FD2-CD10F	4	0.28-1.00 (7-25)	1 Dual cable	0.67-1.10 (17-28)	16	0.36/0.18 x 0.31 (9/4.5 x 8)	Compression seal	6
FD2-DD10F	4	0.28-1.00 (7-25)	1 Dual cable	0.67-1.28 (17-32)	16	0.36/0.18 x 0.31 (9/4.5 x 8)	Compression seal	6
		0.28–1.00 (7–25) feeder cable or multiple		0.67-1.28 (17-32)	16	0.36/0.18 x 0.31 (9/4.5 x 8)	Compression seal	

Round ports can be used for a single feeder cable of maniple round of flat

DIMENSIONS AND FIBER/STORAGE CAPACITIES

			Splice Tray Capacity		Fiber Splic	e Capacity²	Fiber Slack Storage		
Part Number	Height in (mm)	Diameter in (mm)	Weight Ibs (kg)	Loose Tube	Ribbon	Loose Tube ²	Ribbon² (144 per tray)	Loose Tubes (8 ft per tube)	Ribbons (8 ft per ribbon)
FD2-AD10F	15.2 (385)	7.0 (177)	5.5 (2.5)	4	2	96	216	8	18
FD2-BD10F	18.3 (466)	7.8 (199)	7.7 (3.5)	6	2	144	216	12	18
FD2-CD10F	20.9 (532)	9.7 (246)	13.2 (6.0)	8	6	288	864	24	72
FD2-DD10F	26.9 (682)	9.7 (246)	17.6 (8.0)	8	8	576	1,152	48	96

²Refer to the "Port and Grounding Specifications" table above to verify compatibility of the Cable O.D. with the Fiber Splice Capacity prior to closure selection.

ACCESSORIES	;		
Part Number	Description	FDC Compatibility	Kit Components
FDC-TE144	Splice Tray Kit – 144 Ribbon	All	Splice tray, 12 ribbon splice sleeves, 4 transport tubes, 8 cable ties
FDC-TD240	Splice Tray Kit - 24 LBT	All	Splice tray, 24 splice sleeves, 4 transport tubes, 8 cable ties
FDC-TD360	Splice Tray Kit - 36 LBT	Туре С	Splice tray, 36 splice sleeves, 6 transport tubes, 16 cable ties
FDC-TD720	Splice Tray Kit - 72 LBT	Type D	Splice tray, 72 splice sleeves, 12 transport tubes, 24 cable ties
FSP-D-1x2	Splitter – 1 x 2	All	PLC Splitter single mode fiber input, single mode ribbon output
FSP-D-1x4	Splitter – 1 x 4	All	PLC Splitter single mode fiber input, single mode ribbon output
FSP-D-1x8	Splitter – 1 x 8	All	PLC Splitter single mode fiber input, single mode ribbon output
FSP-D-1x16	Splitter – 1 x 16	All	PLC Splitter single mode fiber input, single mode ribbon output
FSP-D-1x32	Splitter – 1 x 32	All	PLC Splitter single mode fiber input, single mode ribbon output
FD2-APLMT	Pole Mount Kit	Туре А	Mounting bracket, 2 lag screws, 2 lock washers
FD2-BPLMT	Pole Mount Kit	Туре В	Mounting bracket, 2 lag screws, 2 lock washers
FD2-CPLMT	Pole Mount Kit	Type C, Type D	Mounting bracket, 3 lag screws, 3 lock washers
FD2-GDR07	End Grommet Kit - 3 round drop ports (7 mm)	Туре А, Туре В	25 grommets
FD2-GDR09	End Grommet Kit - 2 round drop ports (9 mm)	Туре А, Туре В	25 grommets
FD2-GDF08	End Grommet Kit - 3 flat drop ports (4.5 x 8 mm)	Туре А, Туре В	25 grommets
FD2-GFR12	End Grommet Kit - 1 round port (9-12 mm)	Туре А, Туре В	25 grommets
FD2-GFR16	End Grommet Kit - 1 round port (13-16 mm)	Туре А, Туре В	25 grommets
FD2-CFR20	End Grommet Kit - 1 round port (20 mm)	Type C, Type D	25 grommets
FD2-CFR25	End Grommet Kit - 1 round port (25 mm)	Type C, Type D	25 grommets
FD2-CDR07	End Grommet Kit - 4 round ports (7-9 mm)	Type C, Type D	25 grommets
FD2-CDF08	End Grommet Kit - 4 flat drop ports (4.5 x 8 mm)	Type C, Type D	25 grommets
FD2-CTOOL	Compression Connector Wrench	All	1 wrench

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FDH-288 Series Fiber Distribution Hub (FDH)



FDH SPECIFICATIONS

Distribution Fiber Capacities	72, 144, 216 or 288 fiber adapters			
Mounting Configurations	Pad or vault			
Dimensions H x W x D in (mm)	Vault-mount: 43.7 x 26.4 x 15.8 (1,110 x 671 x 401) Pad-mount: 49.2 x 26.4 x 15.8 (1,250 x 671 x 401)			
Weight Ibs (kg)	80 (36.36)			
Adapter Type	SC/APC			
Fiber Type	Loose buffer tube or ribbon			
Maximum Number of Splitter Input Fibers	12			
Splitter Module Capacity	12			
Parking Lot Capacity	72 adapters			
Color	Beige			
Standards Compliance	Telcordia [®] Technologies GR-3125-CORE, Issue 1			
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SPLITTER MODULE SPECIFICATIONS

Splitter Ratio ¹	Insertion Loss Max. ² dB	Uniformity dB	Return Loss dB	Directivity dB	PDL dB	Band Pass nm	Operating Temp. °C
1 x 4	≤ 7.6	≤ 0.6	≥ 55	≥ 55	≤ 0.2	1260 to 1650	-40 to 85
1 x 8	≤ 11.0	≤ 0.8	≥ 55	≥ 55	≤ 0.3	1260 to 1650	-40 to 85
1 x 16	≤ 13.7	≤ 1.0	≥ 55	≥ 55	≤ 0.3	1260 to 1650	-40 to 85
1 x 32	≤ 16.9	≤ 1.3	≥ 55	≥ 55	≤ 0.3	1260 to 1650	-40 to 85

¹All splitter modules comply with ITU-T G.652 and G.657.A recommendations ²Does not include connector loss

PART NUMBERS

Part Number	Description
FDH-AA000	FDH weather-proof cabinet, pad mount, 72 SC/APC adapters ³
FDH-BA000	FDH weather-proof cabinet, pad mount, 144 SC/APC adapters ³
FDH-CA000	FDH weather-proof cabinet, pad mount, 216 SC/APC adapters ³
FDH-DA000	FDH weather-proof cabinet, pad mount, 288 SC/APC adapters ³
FDH-SMD14	Splitter Module – 1 x 4
FDH-SMD18	Splitter Module – 1 x 8
FDH-SM116	Splitter Module – 1 x 16
FDH-SM132	Splitter Module – 1 x 32

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³Preconnectorized cable or in-hub splicing capable; splice trays not included.

SUPERIOR

FSSEX.

PRODUCT DESCRIPTION

The Superior Essex FDH-288 Series Fiber Distribution Hub (FDH) is designed to provide a local convergence point in an Outside Plant (OSP) environment. The FDH-288 houses optical splitters that propagate optical signal from the Central Office (CO) to the distribution cable network that serves fiber to the customer's premises. Its compact and modular design offers a cost-effective fiber distribution solution with ease of installation. This modular approach enables the service provider to incrementally grow fiber distribution capacity as their subscriber penetration rate increases. SC adapter distribution panels are available in 72-port increments, thus providing 72, 144, 216 and 288 fiber capacity configurations. The service provider can purchase additional SC adapter panels after the initial installation to increase fiber distribution capacity on a "pay-as-you-grow" basis, offering a more cost-effective means of managing deployment costs.

PRODUCT HIGHLIGHTS

- Powder-coated, aluminum, non-corrosive construction with 3-point door lock system
- Single-entry door conducive to pad and vault mounting
- Internal self-locking, swinging panel for SC adapter and parking lot receptacles
- Centrally located, 12-position splitter module shelf
- Splitter modules available in 1 x 4, 1 x 8, 1 x 16 or 1 x 32 ratios
- Each cabinet supports in-hub splicing or preconnectorized
- terminations for feeder and distribution cables
- Telcordia[®] GR-3125, Issue 1 compliant

APPLICATIONS

• The FDH-288 provides a connectorized path between passive optical splitters fed from the CO and distribution optical fiber cables that transport the optic signal to the customer's premises for voice, data and video services. The FDH-288 facilitates rapid service provisioning and reconfiguration, thus improving installation efficiencies in the field.

BENEFITS FEATURES • Modular SC adapter Offers cost-effective, "pay-as-. distribution panels you-grow" deployment Small, compact weather-proof Offers an aesthetically-pleasing enclosure package for OSP deployment Enhanced bend radius control, Provides optimal fiber . management, protection slack storage and fiber routing and performance Secure, single-entry door with . Offers flexibility for pad or vault mounting options

pad lock hasp

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Self-Locking, Swinging Adapter Panel Assembly



Fiber Management and Bend Radius Control



Conveniently-Located Splitter Module Shelf



Slide-Out, In-Hub Splicing Option

ACCESSORIES		
Part Number	Description	Kit Components
FIC-TD120	Splice Tray Kit - 12 LBT or 144 Ribbon	Splice tray, 12 splice sleeves, 4 transport tubes, 8 cable ties
FIC-TD240	Splice Tray Kit - 24 LBT	Splice tray, 24 splice sleeves, 4 transport tubes, 8 cable ties
FDH-SCA72	72-SC Adapter Panel (SC/APC)	3 panels of 24 SC/APC adapters with mounting screws
FDP-xy1A0 ¹	Preconnectorized feeder or distribution cable	100 ft cable assembly with labeled SC/APC connectors

FEEDER / DISTRIBUTION CABLE SIZE							
	Feeder Cable Size (number of fibers)			Distribution Cable Size (number of fibers)			
	12	24	48	72	144	216	288
¹ Replace "x" with:	А	В	С	D	Е	F	G

CABLE TYPE (FE	CABLE TYPE (FEEDER AND DISTRIBUTION)				
	Single Armor Loose Tube		Armored Ribbon	Dielectric Ribbon	
¹ Replace "y" with:	А	В	С	D	

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Part		Depth	Dimensions L x W		
Number	Description	in (mm)	in (mm)	Material	Rated
30486010	Below-grade vault	18 (457)	48 x 30 (1,219 x 762)	Polymer concrete	T15
30486011	Below-grade vault	24 (610)	48 x 30 (1,219 x 762)	Polymer concrete	T15
30486012	Below-grade vault	30 (762)	48 x 30 (1,219 x 762)	Polymer concrete	T15
30486013	Below-grade vault	36 (914)	48 x 30 (1,219 x 762)	Polymer concrete	T15
30487622	Blank lid-half	3 (76)	24 x 30 (610 x 762)	Polymer concrete	T15
30487055	Cut-out lid-half for FDH-288	3 (76)	24 x 30 (610 x 762)	Polymer concrete	-

ust be ordered from Oldcastle Enclosure Solutions at 1.800.735.5

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FIC Tray Kits/Splitters



PRODUCT DESCRIPTION

The FIC splice tray kit is used to organize and splice fibers.

The FIC splitter is used to spilt one or two fibers into 2, 4, 8, 16, or 32 channels.

NUMBERS AND KIT COMPONENTS			
Part Number	Description	Fiber Capacity	Kit Components
FIC-TD120	FIC Splice Tray Kit	12 Loose Buffer Tube or 144 Ribbon	 One (1) splice tray, cover and assignment label 12 ribbon splicing sleeves Four (4) spiral transportation tubes Eight (8) cable ties
FIC-TD240	FIC Splice Tray Kit	24 Loose Buffer Tube	 One (1) splice tray, cover and assignment label 24 splicing sleeves Four (4) spiral transportation tubes Eight (8) cable ties
FSP-I-1x2	FIC Splitter 1 x 2	1 in, 2 out	PLC Splitter single mode fiber input, single mode ribbon outp
FSP-I-1x4	FIC Splitter 1 x 4	1 in, 4 out	PLC Splitter single mode fiber input, single mode ribbon outp
FSP-I-1x8	FIC Splitter 1 x 8	1 in, 8 out	PLC Splitter single mode fiber input, single mode ribbon outp
FSP-I-1x16	FIC Splitter 1 x 16	1 in, 16 out	PLC Splitter single mode fiber input, single mode ribbon outp
FSP-I-1x32	FIC Splitter 1 x 32	1 in, 32 out	PLC Splitter single mode fiber input, single mode ribbon outp



FIC End Grommet Kits

PRODUCT DESCRIPTION

The FIC end grommet kit is used to seal cable entry for drop and branch cables. Each cable port accommodates a cable from 9 mm to 26 mm in diameter. Each drop port accommodates a cable from 3 mm to 9 mm in diameter.



NUMBERS AND KIT CO	MPONENTS		
Part Number	Description	Port Capacity	Kit Components
FIC-G3P25	FIC End Grommett Kit	3 cable ports	 25 end-grommets 25 two-piece, oval retaining rings 25 metal support bars
FIC-G4P25	FIC End Grommett Kit	4 cable ports	 25 end-grommets 25 two-piece, oval retaining rings 25 metal support bars
FIC-GCP25	FIC End Grommett Kit	2 cable ports and 16 drop ports	 25 end-grommets 25 two-piece, oval retaining rings 25 metal support bars
FI2-G1P25	FI2 End Grommett Kit	1 feeder port	25 end grommets
FI2-G4FP25	FI2 End Grommett Kit	4 flat drop ports	25 end grommets
FI2-G4RP25	FI2 End Grommett Kit	4 round drop ports	 25 end grommets

FIC Hanger Kits

PRODUCT DESCRIPTION

The FIC aerial hanger kit is used to strand-mount and support all Fiber In-Line Closures (FIC) on a ¼ inch Messenger cable. Each hanger arm provides additional holes to accommodate most universal hanging brackets and hardware. Each kit will support one (1) in-line closure.

The FIC pole mount kit is used to attach an In-Line Closure (FIC and FI2) to a pole using either a stainless steel band or bolts.



PART NUMBERS AND KIT COMPONENTS		
Part Number	Description	Kit Components
FIC-HA000	Aerial Hanger Kit	 Two (2), 6 inch hanger arms with fasteners Two (2) Phillips-head mounting screws
FIC-PMBA1	Pole Mount Kit - Band	 T-Bracket with stainless steel band
FIC-PMBO1	Pole Mount Kit – Bolt	 T-Bracket with bolts



FDC Tray Kits/Splitters



PRODUCT DESCRIPTION

The FDC splice tray kit is used to organize and splice fibers.

The FDC splitter is used to spilt one or two fibers into 2, 4, 8, 16, or 32 channels.

Part Number	Description	Fiber Capacity	Kit Components
FDC-TE144	FDC Splice Tray Kit	144 Ribbon	 One (1) hinged-splice tray, cover and assignment label 12 ribbon splicing sleeves Four (4) spiral transportation tubes Eight (8) cable ties
FDC-TD240	FDC Splice Tray Kit	24 Loose Buffer Tube	 One (1) hinged-splice tray, cover and assignment label 24 splicing sleeves Four (4) spiral transportation tubes Eight (8) cable ties
FDC-TD360	FDC Splice Tray Kit	36 Loose Buffer Tube	 One (1) hinged-splice tray, cover and assignment label 36 splicing sleeves Six (6) spiral transportation tubes 16 cable ties
FDC-TD720	FDC Splice Tray Kit	72 Loose Buffer Tube	 One (1) hinged-splice tray, cover and assignment label 72 splicing sleeves 12 spiral transportation tubes 24 cable ties
FSP-D-1x2	FDC Splitter 1 x 2	1 in, 2 out	PLC Splitter single mode fiber input, single mode ribbon output
FSP-D-1x4	FDC Splitter 1 x 4	1 in, 4 out	PLC Splitter single mode fiber input, single mode ribbon output
FSP-D-1x8	FDC Splitter 1 x 8	1 in, 8 out	PLC Splitter single mode fiber input, single mode ribbon output
FSP-D-1x16	FDC Splitter 1 x 16	1 in, 16 out	PLC Splitter single mode fiber input, single mode ribbon outpu
FSP-D-1x32	FDC Splitter 1 x 32	1 in, 32 out	PLC Splitter single mode fiber input, single mode ribbon outpu

FDC Pole Mount Kits



PRODUCT DESCRIPTION

For fiber deployment in excessive snow regions or where additional security is required, the FDC Pole Mount Kit offers an alternative to aerial, below-grade or direct-buried deployment, to provide easy access and additional security. Each kit contains a pole mount bracket and associated hardware, to install any of the FDC Dome Closures to a wood pole.

PART NUMBERS AND KIT COMPONENTS			
Part Number	FDC Compatibility	Kit Components	
FD2-APLMT	Туре А	 One (1) galvanized mounting bracket Two (2) % inch x 3 inch galvanized lag screws Two (2) % inch galvanized lock washers 	
FD2-BPLMT	Туре В	 One (1) galvanized mounting bracket Two (2) % inch x 3 inch galvanized lag screws Two (2) % inch galvanized lock washers 	
FD2-CPLMT	Type C, Type D	 One (1) painted mounting bracket Three (3) % inch x 3 inch galvanized lag screws Three (3) % inch galvanized lock washers 	



WIRELESS

(a)

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FDC Compression Grommet Kits

PRODUCT DESCRIPTION

The FDC compression grommet kit is used to seal cable entry for drop and branch cables. Cable grommets accommodate a cable from 9 mm to 25 mm in diameter. Drop grommets accommodate a round or flat drop cable from 7 mm to 9 mm.



PART NUMBERS AND KIT COMPONENTS							
Part Number	FDC Compatibility	Number of Ports	Kit Components				
FD2-GDR07	Туре А, Туре В	3 round drop ports (7 mm)	25 grommets				
FD2-GDR09	Туре А, Туре В	2 round drop ports (9 mm)	25 grommets				
FD2-GDF08	Туре А, Туре В	3 flat drop ports (4.5 x 8 mm)	25 grommets				
FD2-GFR12	Туре А, Туре В	1 round port (9-12 mm)	25 grommets				
FD2-GFR16	Туре А, Туре В	1 round port (13-16 mm)	25 grommets				
FD2-CFR20	Type C, Type D	1 round port (20 mm)	25 grommets				
FD2-CFR25	Type C, Type D	1 round port (25 mm)	25 grommets				
FD2-CDR07	Type C, Type D	4 round ports (7-9 mm)	25 grommets				
FD2-CDF08	Type C, Type D	4 flat drop ports (4.5 x 8 mm)	25 grommets				

FDC Compression Connector Wrench

PRODUCT DESCRIPTION

Rev 7/15

Ed 13.0

The FDC compression connector wrench is used to secure the lock nut of the compression connector on all four types of the FD2 closure.



PART NUMBERS AND KIT COMPONENTS			
Part Number	Kit Components		
FD2-CTOOL	1 wrench		

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RF FEEDER CABLE AND JUMPERS

RF CONNECTORS

DIN Series for LHF	.D-8
DIN Series for HFSC	.D-9
N Series for LHF	.D-10
N Series for HFSC	.D-11

IN-BUILDING WIRELESS CABLE AND JUMPERS

DAS Hybrid Fiber + Copper	D-12
DAS Hybrid, Interlock Armored Fiber + Copper	D-13
LHF Riser Low Loss High Flexible Foam Dielectric Feeder	D-14
LHF Plenum Low Loss High Flexible Air Dielectric Feeder	D-15
HFSC Riser Super Flexible Foam Dielectric Feeder	D-16
HFSC Plenum Super Flexible Air Dielectric Feeder	D-17
HFAC Riser Low Loss High Flexible Foam Dielectric Feeder	D-18
HFAC Plenum Low Loss High Flexible Air Dielectric Feeder	D-19
DAS Riser Jumper Cable	D-20
DAS Plenum Jumper Cable	D-21

IN-BUILDING WIRELESS CONNECTORS

DIN Series for LHF	.D-22
DIN Series for HFSC	.D-23
DIN Series for HFAC	.D-24
N Series for LHF	.D-25
N Series for HFSC	.D-26
N Series for HFAC	.D-27

WIRELESS ACCESSORIES

Cable Preparation ToolsD-28	
Cushion and Boot Assembly KitD-29	ł
Universal Weatherproofing KitD-30	1
Hoisting Grip Lace-Up and Pre-LacedD-31	
Clip-On Grounding KitD-32	
Universal Snap-in Hanger KitD-33	
Stackable Snap-in Hanger KitD-34	
Standard Hanger KitD-35	
λ/4 Wave Surge ArrestorD-36)
Gas Tube Surge ArrestorD-37	
Round Adapter KitD-38	
Stand-Off Adapter KitD-39	ł
Three-Way Stand-Off Adapter KitD-40	1
Angle Adapter KitD-40	1
Ground Bus Bar KitD-41	
Weather Proofing ShellD-42	
Anti-Theft Hardware KitD-43	

D-1

WIRELESS

LHF Series

Low Loss High Flexible Foam Dielectric Feeder

LHF-12D
LHF-33D

PRODUCT DESCRIPTION

LHF Series cables are low loss 50 Ohm cables featuring a foamed polyethylene dielectric, annularly corrugated copper shield and polyethylene jacket.

FEATURES	BENEFITS
Low attenuation	 Suitable for long cable runs
Low passive intermodulation	 Outperforms the industry requirements for low passive intermodulation
Easy connectorization	 Full line of high-quality low intermodulation DIN and N connectors and cable preparation tools minimize installation time and expenses
Factory tested and inspected	 100% of all RF cables are inspected and tested to meet or exceed industry specifications including passive intermodulation
Rugged and durable	 High-quality materials result in rugged cables that are able to withstand extreme environments without corrosion

SPECIFICATIONS	
Inner Conductor	LHF-12D: Copper-clad aluminum wire LHF-33D: Smooth copper tube
Dielectric	Foamed polyethylene
Outer Conductor	Annularly corrugated copper tube
Jacket	Black polyethylene
Recommended Operating Temperature °F (°C)	-40 to +185 (-40 to +80)

PART NUMBERS AND PHYSICAL CHARACTERISTICS	
---	--

	Nominal Diameter Cable Size in (mm)				Minimum Bend Radius	Approx. Weight	Flat Plate Crush Resistance	Maximum Pulling Force	
Part Number	in (mm)	Inner Conductor	Dielectric	Outer Conductor	Jacket		lbs/kft (kg/km)	lbs/in (kg/mm)	lbs (kg)
LHF-12D	1⁄2 (12)	0.20 (5.0)	0.49 (12.5)	0.56 (14.2)	0.65 (16.4)	4.92 (125)	163 (244)	112 (2.0)	249 (113)
LHF-33D	1¼ (33)	0.54 (13.7)	1.32 (33.6)	1.43 (36.4)	1.55 (39.4)	14.96 (380)	613 (915)	134 (2.4)	572 (260)

ELECTRICAL	ELECTRICAL SPECIFICATIONS													
					Dielectric Strength	Velocity of	Peak Power	Maximum Operating	Characteristic	Typical				
Part Number	Cable Size in (mm)	Inner	Outer	Resistance mΩ km	for 1 minute DC Potential - Volts	Propagation %	Rating kW	Frequency GHz	Impedance Ohms	Return Loss dB				
LHF-12D	1⁄2 (12)	0.5 (1.6)	0.6 (1.9)	10,000	4,000	89	40	8.8	50	28				
LHF-33D	1¼ (33)	0.3 (1.1)	0.3 (1.0)	10,000	10,000	89	200	3.3	50 ± 1	28				

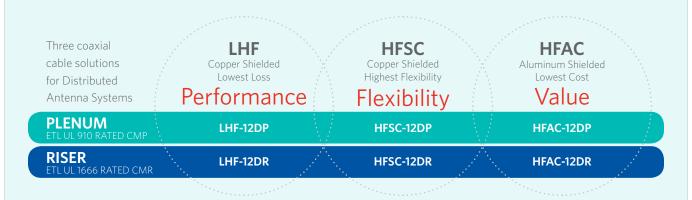
				wer Rating at	Frequency	VS	WR
_	Attenuation at 20°C dB/100 ft (dB/100 m)			er Conductor 100°C W	MHz	LHF-12D	LHF-33D
Frequency MHz	LHF-12D	LHF-33D	LHF-12D	LHF-33D	800-960	1.15	1.15
30	0.35 (1.14)	0.13 (0.42)	6.10	21.30	1,700-2,200	1.15	1.15
100	0.65 (2.12)	0.24 (0.49)	3.32	11.50			
150	0.79 (2.60)	0.30 (0.98)	2.71	9.32			
450	1.40 (4.58)	0.54 (1.77)	1.55	5.23			
824	1.92 (6.31)	0.76 (2.49)	1.13	3.78			
894	2.00 (6.55)	0.80 (2.61)	1.09	3.61			
960	2.08 (6.84)	0.83 (2.72)	1.05	3.48			
1,000	2.13 (7.00)	0.85 (2.79)	1.03	3.40			
1,700	2.84 (9.32)	1.17 (3.84)	0.78	2.53			
1,800	2.93 (9.61)	1.21 (3.97)	0.76	2.45			
2,000	3.11 (10.19)	1.30 (4.25)	0.71	2.31			
2,400	3.38 (11.10)	1.44 (4.73)	0.65	2.09			
2,700	3.81 (12.53)	1.56 (5.11)	0.61	1.95			
3,000	3.95 (12.96)	1.66 (5.43)	0.58	1.84			

Standard Conditions: VSWR 1.0, Ambient Temperature 20°C/Attenuation is typical value.



D-2

Multiple Coax Solutions for a High Performing DAS





Intertek

Industry-Leading Electricals

- Low attenuation across 30 MHz to 4,000 MHz
- Low Voltage Standing Wave Ratio (VSWR) <1.25 dB guaranteed across frequency bands (<1.1 dB typical)
- Low Passive Intermodulation (PIM) < -155 dBc

Superior Construction

- Precision-welded, solid annular outer conductor eliminates intermodulation
- Continuous dielectric spine provides homogenous support of outer conductor and maintains electrical performance in tight bends

Industry's Highest Safety Ratings

- Industry's highest rating of UL[®] 444 for in-building fire safety
- Plenum cables are ETL certified CMP using UL 910
- Riser cable is ETL certified CMR using UL1666

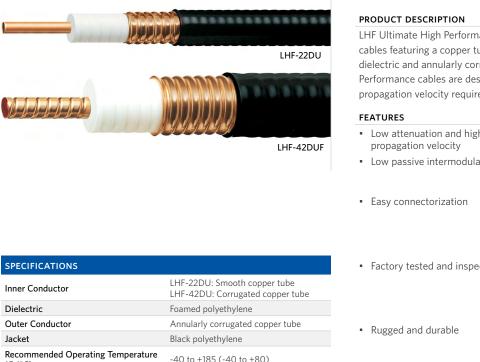
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LHF Series (Ultimate High Performance) Ultimate Low Loss High Flexible Foam Dielectric Feeder



LHF Ultimate High Performance Series cables are low loss 50 Ohm cables featuring a copper tube center conductor, foamed polyethylene dielectric and annularly corrugated copper metallic shield. Ultimate High Performance cables are designed to offer the low attenuation and high propagation velocity required by modern 3G and 4G networks.

FEATURES	BENEFITS
 Low attenuation and high propagation velocity 	 Highly efficient signal transfer over long cable runs
Low passive intermodulation	 Outperforms the industry requirements for low passive intermodulation
Easy connectorization	 Full line of high-quality low intermodulation DIN and N connectors and cable preparation tools minimize installation time and expenses
Factory tested and inspected	 100% of all RF cables are inspected and tested to meet or exceed industry specifications including passive intermodulation
Rugged and durable	 High-quality materials result in rugged cables that are able to withstand extreme environments without corrosion

SPECIFICATIONS	
Inner Conductor	LHF-22DU: Smooth copper tube LHF-42DU: Corrugated copper tube
Dielectric	Foamed polyethylene
Outer Conductor	Annularly corrugated copper tube
Jacket	Black polyethylene
Recommended Operating Temperature °F (°C)	-40 to +185 (-40 to +80)

PART NUMBER	PART NUMBERS AND PHYSICAL CHARACTERISTICS													
	Cable Size			l Diameter (mm)	Minimum Bend Radiu		Approx. Weight	Flat Plate Crush Resistance	Maximum Pulling Force					
Part Number			Dielectric	Outer Conductor	Jacket	in (mm)	lbs/kft (kg/km)	lbs/in (kg/mm)	lbs (kg)					
LHF-22DU	7⁄8 (22)	0.37 (9.5)	0.91 (23.1)	1.00 (25.3)	1.11 (28.2)	9.84 (250)	316 (470)	100 (1.8)	323 (147)					
LHF-42DUF	1% (42)	0.71 (18.1)	1.72 (43.6)	1.83 (46.6)	1.97 (50.0)	19.69 (500)	710 (1,059)	90 (1.6)	398 (181)					

ELECTRICAL	ELECTRICAL SPECIFICATIONS														
			C Resistance Ohms/km)	Insulation	Dielectric Strength	Velocity of	Peak Power	Maximum Operating	Characteristic	Typical					
Part Number	Cable Size in (mm)	Inner	Outer	Resistance mΩ km	for 1 minute DC Potential - Volts	Propagation %	Rating kW	Frequency GHz	Impedance Ohms	Return Loss dB					
LHF-22DU	⅔ (22)	0.6 (1.9)	0.6 (1.9)	10,000	6,000	91 ± 3	0.92	5.0	50 ± 1	28					
LHF-42DUF	1% (42)	0.4 (1.6)	0.2 (0.7)	10,000	11,000	92 ± 3	2.77	2.5	50 ± 1	28					

Frequency		on at 20°C (dB/100 m)	Average Power Rating at Ambient 40°C Inner Conductor 100°C kW			
MHz	LHF-22D	LHF-42D	LHF-22DU	LHF-42DUF		
450	0.73 (2.42)	0.43 (1.43)	-	-		
700	0.93 (3.06)	0.55 (1.82)	-	-		
824	1.02 (3.35)	0.61 (2.00)	2.49	3.60		
894	1.07 (3.50)	0.64 (2.09)	2.38	3.44		
960	1.11 (3.64)	0.66 (2.18)	-	-		
1,700	1.52 (4.99)	0.92 (3.02)	1.67	2.38		
1,800	-	-	1.61	2.30		
2,000	1.66 (5.47)	1.01 (3.33)	1.54	2.16		
2,400	1.85 (6.07)	1.13 (3.71)	-	-		
3,000	2.10 (6.89)	-	-	-		

Frequency	VS	WR
MHz	LHF-22DU	LHF-42DU
800-960	1.13	1.13
1,700-2,200	1.13	1.13

Standard Conditions: VSWR 1.0.

Ambient Temperature 20°C/Attenuation is typical value.

D-4

PRODUCT DESCRIPTION

HFSC Series cables are super flexible lightweight coaxial cables featuring a copper clad aluminum conductor, foamed polyethylene dielectric and corrugated copper metallic shield. This helically corrugated cable has the highest number of corrugations per inch and the lowest minimum bending radius, making it well-suited for jumper cable and installations where bending and tight spaces require a more flexible cable.

FEATURES

FEATURES	BENEFITS
 Light weight and flexible 	Easy to transport and install
 Low passive intermodulation 	 Outperforms the industry requirements for low passive intermodulation
Easy connectorization	 Full line of high-quality low intermodulation DIN and N connectors and cable preparation tools minimize installation time and expense
 Factory tested and inspected 	 100% of all RF cables are inspected and tested to meet or exceed industry specifications including passive intermodulation
Rugged and durable	 High-quality materials result in rugged cables that are able to withstand extreme environments without corrosion
 Flame retardant zero halogen 	 Standard ¼ inch cable meets IEC 754-1, 332, 383 and ASTME 662

HFSC-6DFR

************** HFSC-12D

SPECIFICATIONS	
Inner Conductor	Copper-clad aluminum wire
Dielectric	Foamed polyethylene
Outer Conductor	Helically corrugated copper tube
Jacket	HFSC-6DFR: Flame Retardant, Low Smoke Zero Halogen (LSZH) HFSC-12D: Black polyethylene
Recommended Operating Temperature °F (°C)	HFSC-6DFR: -22 to +176 (-30 to +80) HFSC-12D: -40 to +185 (-40 to +80)

PART NUMBERS AND PHYSICAL CHARACTERISTICS

	Cable Size			al Diameter (mm)		Minimum Bend Radius in (mm)	Approx. Weight	Flat Plate Crush Resistance Ibs/in (kg/mm)	Maximum Pulling Force Ibs (kg)
Part Number	in (mm)	Inner Conductor	Dielectric	Outer Conductor	Jacket		lbs/kft (kg/km)		
HFSC-6DFR	1⁄4 (6)	0.07 (1.9)	0.19 (4.7)	0.25 (6.4)	0.31 (8.0)	0.98 (25)	54 (80)	161.44 (1.86)	150 (68)
HFSC-12D	1⁄2 (12)	0.14 (3.6)	0.35 (8.9)	0.48 (12.2)	0.54 (13.6)	1.26 (32)	135 (201)	147.60 (1.7)	143 (65)

ELECTRICAL SPECIFICATIONS

Part Number		Conductor DC Resistance Ohms/kft (Ohms/km)			Dielectric Strength	Velocity of	Peak Power	Maximum Operating	Characteristic	Typical
	Cable Size in (mm)	Inner	Outer	Resistance mΩ km	for 1 minute DC Potential - Volts	Propagation %	Rating kW	Frequency GHz	Impedance Ohms	Return Loss dB
HFSC-6DFR	1⁄4 (6)	2.99 (9.80)	1.98 (6.50)	10,000	1,600	81	6.4	20.4	50	28
HFSC-12D	1⁄2 (12)	0.87 (2.85)	0.99 (3.25)	10,000	2,500	81	15.6	10.0	50	28

-		on at 20°C (dB/100 m)		ver Rating at er Conductor 100°C N	Frequency MHz
Frequency MHz	HFSC-6DFR	HFSC-12D	HFSC-6DFR	HFSC-12D	800-960
30	0.96 (3.15)	0.55 (1.80)	2.08	4.87	1,700-2,200
100	1.77 (5.82)	1.01 (3.33)	1.13	2.62	
150	2.19 (7.17)	1.25 (4.10)	0.92	2.12	
450	3.87 (12.70)	2.22 (7.29)	0.52	1.19	
824	5.36 (17.60)	3.08 (10.10)	0.38	0.85	
894	5.61 (18.40)	3.20 (10.50)	0.36	0.82	
960	5.82 (19.10)	3.35 (11.00)	0.35	0.79	
1,000	5.94 (19.50)	3.41 (11.20)	0.34	0.77	
1,700	7.96 (26.10)	4.57 (15.00)	0.26	0.57	
1,800	8.20 (26.90)	4.72 (15.50)	0.25	0.55	
2,000	8.69 (28.50)	5.00 (16.40)	0.24	0.52	
2,400	9.63 (31.60)	5.55 (18.20)	0.22	0.47	
3,000	10.91 (35.80)	6.31 (20.70)	0.19	0.41	
4,000	12.86 (42.20)	7.44 (24.40)	0.16	0.35	
6,000	16.28 (53.40)	9.45 (31.00)	0.13	0.27	
10,000	22.13 (72.60)	12.89 (42.30)	0.10	0.20	

Standard Conditions: VSWR 1.0,

Ambient Temperature 20°C/Attenuation is typical value.

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D-5

VSWR

HFSC-12D

1.15

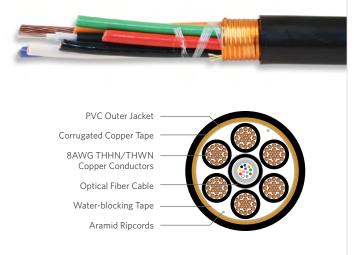
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HFSC-6DFR

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Fiber-to-the-Antenna (FTTA)



FIBER COMPONENT SPECIFICATIONS	
Tight Buffer	Tight Buffered Low Smoke Zero Halogen (LSZH), Riser Available in 2-fiber up to 12-fiber
Loose Tube	Stranded Loose Tube Indoor/Outdoor OFNR, Series 13 Available in 12-fiber up to 288-fiber
Central Tube	Single Loose Tube Indoor/Outdoor OFNR, Series 53 Available in 2-fiber up to 96-fiber
Performance Compliance	Telcordia [®] GR-20-CORE

Telcordia is a registered trademark of Ericsson Inc.

POWER COMPONENT SPECIFICATIONS		
Conductor	Annealed stranded copper (19 strands)	
AWG	Available in 8 AWG	
Insulation	Polyvinyl Chloride (PVC) covered with colored Nylon (THHN/THWN-2)	
Temperature Ratings	Rated at 90°C for dry locations Rated at 75°C for wet locations	
Performance Compliance	ASTM B8 or ASTM B-787 UL® 83	
Other Compliance	Sunlight Resistant RoHS-compliant	

ENVIRONMENTAL SPECIFICATIONS Operation/Storage -40°C to +70°C Installation -10°C to +65°C

PART NUMBERS AND PHYSICAL CHARACTERISTICS

ERIOR

PART NUMBERS	S AND PHISIC	LAL CHARACT	ERISTICS							
					Nominal	minal	Maximum Tensile Load		Minimum Bend Radius	
Part Number	Conductor Count	AWG (mm)	Fiber Component	Fiber Count	Diameter in (mm)	Approx. Weight lbs/kft (kg/km)	Install Ibs (N)	Long Term Ibs (N)	Install in (mm)	Long Term in (mm)
53012K01Q	-	-	Central tube	12	0.37 (9.5)	52 (78)	600 (2,700)	200 (890)	7.4 (188)	3.7 (94)
53024K01Q	-	-	Central tube	24	0.37 (9.5)	53 (79)	600 (2,700)	200 (890)	7.4 (188)	3.7 (94)
53048J01Q	-	-	Central tube	48	0.37 (9.5)	54 (80)	600 (2,700)	200 (890)	7.4 (188)	3.7 (94)
GM012K221	6	8 (3.26)	Tight buffer	12	0.86 (21.8)	568 (847)	600 (2,700)	200 (890)	17.2 (236)	8.6 (218)
GM012K111	6	8 (3.26)	Central tube	12	0.87 (22.0)	568 (847)	600 (2,700)	200 (890)	17.4 (440)	8.7 (220)
GM012K011	6	8 (3.26)	Loose tube	12	0.95 (24.1)	614 (915)	600 (2,700)	200 (890)	19.0 (482)	9.5 (241)

Part numbers listed are TeraFlex® Bend Resistant single mode optical fiber only. Other fiber types available. See "Optical Fiber Specifications" in the "Technical Information" section for detailed fiber type specifications.

WIRELESS



PRODUCT DESCRIPTION

Fiber-to-the-Antenna (FTTA) cables are designed to address the movement of electronics from the ground hut to the cell tower, allowing significant improvement in available bandwidth. Superior Essex offers two types of cable for this application: optical fiber and hybrid (containing both optical fibers and copper power conductors). Optical fiber cables are available with PFM[™] gel; hybrid cables are available with either PFM gel components or tight buffered components. Each of the options provide a solution to the challenges of temperature changes, wind shear and vertical applications. The hybrid offering also has a copper shield option for lightning protection and a PVC jacket to increase the coefficient friction between the outer jacket and tower clamps.

BENEFITS

applications

APPLICATIONS

- Fiber-to-the-Antenna .
- Fiber-to-the-Remote Radio Head .

FEATURES

- PFM gel or tight buffer
- Hybrid designs
- Shield options
- Jacketing options
- Range of fibers
- Optional signaling component available
- Reduces required number of cables Customer preference for lightning protection

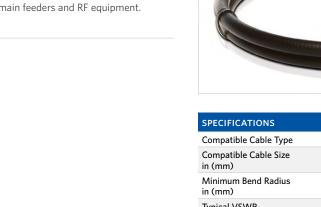
Proven performance in tower

- Customer preference for jacketing material
- Addresses multiple provider/ capacity requirements
- Offers system feedback



RF Jumper Cable

TECH INFO WIRELESS FITP OSP CABLE PREMISES CABLE TABLE OF CONTENTS



PRODUCT DESCRIPTION

Jumper cables offer outstanding electrical performance along with high durability for tight routing and superior environmental sealing for long life reliability.

Available in $\frac{3}{2}$ inch and $\frac{1}{2}$ inch diameters, jumper cables are used in areas that require extremely small bending radius, such as between main feeders and antennas or between main feeders and RF equipment.

FEATURES/BENEFITS

- High pull-off strength
- Excellent VSWR performance
- Low and stable intermodulation
- Weatherproof



SPECIFICATIONS	
Compatible Cable Type	HFSC-12D
Compatible Cable Size in (mm)	1⁄2 (12)
Minimum Bend Radius in (mm)	1.26 (32)
Typical VSWR	1.08 over Cellular, PCS and 3G-band
Intermodulation (PIM) dBc	< -158
Recommended Operating Temperature °F (°C)	-40 to +185 (-40 to +80)

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Interface Type		Standard Length		
Part Number	End 1	End 2	ft (m)	Unit of Measure
J12-1DMDM	DIN Male, Straight	DIN Male, Straight	3.3 (1)	Each
J12-1NMNM	N Male, Straight	N Male, Straight	3.3 (1)	Each
J12-2DMDM	DIN Male, Straight	DIN Male, Straight	6.6 (2)	Each
J12-2NMNM	N Male, Straight	N Male, Straight	6.6 (2)	Each
J12-3DMDM	DIN Male, Straight	DIN Male, Straight	9.8 (3)	Each
J12-3NMNM	N Male, Straight	N Male, Straight	9.8 (3)	Each
J12-3NMNMR	N Male, Straight	N Male, Right Angle	9.8 (3)	Each
J12-4DMDM	DIN Male, Straight	DIN Male, Straight	13.1 (4)	Each
J12-4NMNM	N Male, Straight	N Male, Straight	13.1 (4)	Each
J12-5DMDM	DIN Male, Straight	DIN Male, Straight	16.4 (5)	Each
J12-5DMDF	DIN Male, Straight	DIN Female, Straight	16.4 (5)	Each
J12-5NMNM	N Male, Straight	N Male, Straight	16.4 (5)	Each
J12-6NMNMR	N Male, Straight	N Male, Right Angle	19.7 (6)	Each

EXPLANATION OF PART NUMBERS

Rev 7/15

Ed 13.0

Product Category	Compatible Cable Size	Jumper Length	Connector for End 1	Connector for End 2
J = Jumper Cable	12 = ½ inch (12 mm)	1 = 1 meter	DM = DIN Male straight	DM = DIN Male straight
		2 = 2 meters	DMR = DIN Male Right angle	DMR = DIN Male Right angle
		3 = 3 meters	DF = DIN Female straight	DF = DIN Female straight
		4 = 4 meters	DFR = DIN Female Right angle	DFR = DIN Female Right angle
		5 = 5 meters	NM = N Male straight	NM = N Male straight
		6 = 6 meters	NMR = N Male Right angle	NMR = N Male Right angle
			NF = N Female	NF = N Female
			NFR = N Female Right angle	NFR = N Female Right angle





DIN Series for LHF



½ inch (12 mm)





SPECIFICA

Bodies, Cap

Back Nut M

Pin Materia

Insulator M Gasket Mat

TIONS	
(Coupling Nut) Material	Brass/silver plated or Su Co (Alloy of Cu/Sn/Zn) plated
laterial	Brass/nickel plated
ı	Male: Brass/silver plated or Su Co (Alloy of Cu/Sn/Zn) plated Female: Beryllium - copper/silver plated or Su Co (Alloy of Cu/Sn/Zn) plated
aterial	Plated PTFE (Teflon®)
terial	Silicon rubber

Recommended Coupling Nut Torque Nm	25-30
Coupling Nut Retention Force Nm	1,000
Contact Captivation N	200
Mating Durability	500 times

PRODUCT DESCRIPTION

This DIN Series is compatible with the LHF Feeder Series. The connectors are manufactured from an alloy material of copper, tin and zinc to produce a highly polished, precise, and strong connector. This alloy combination allows a better operating temperature range and improved environmental performance.

FEATURES/BENEFITS

- · Two-piece design is the industry standard
- · Simple 6-step user friendly installation process
- Ordinary tools needed; available in a common installers tool bag .
- Connector can be disassembled and re-used
- . Offers stable connections

ELECTRICAL SPECIFICATIONS	
Impedance Ω	50
Maximum Frequency Range GHz	7.5
VSWR (Mating) straight (right angle)	1 GHz: 1.08 (1.12) 2 GHz: 1.10 (1.15)
Maximum Insertion Loss dB @ 3 GHz	0.2
Intermodulation (PIM) dBc	< -155
Dielectric Withstanding Voltage kV rms @ 50 Hz	4.0
Working Voltage kV rms @ 50 Hz	2.7
Insulation Resistance $G\Omega$	10
Contact Resistance $m\Omega$	Inner: 0.4 Outer: 1.5

ENVIRONMENTAL SPECIFICATIONS	
Temperature Range °F (°C)	-49 to +185 (-45 to +85)
Corrosion (Salt Spray Test)	IEC-68-2-11-Ka
Vibration	CECC 22000 Part 4.6.3
Waterproof	IP68

. Teflon is a registered trademark of E. I. du Pont de Nemours and Company or its affiliates.

PART NUMBERS AND PHYSICAL CHARACTERISTICS **DIN Interface Type** Compatible Cable Size Length Diameter Weight Part Number Gender Straight or Angle in (mm) in (mm) in (mm) oz (g) CLH-12DF Female Straight 1/2 (12) 2.65 (67.4) 0.86 (21.8) 5.3 (150) CLH-12DFR Female **Right Angle** 1/2 (12) CLH-12DM Male Straight 1/2 (12) 2.57 (65.4) 0.86 (21.8) 6.5 (183) CLH-12DMR 1⁄2 (12) Male Right Angle CLH-22DF Female Straight 7/8 (22) 2.62 (66.5) 1.39 (35.2) 7.4 (210) CLH-22DM Male Straight 7/8 (22) 2.81 (71.5) 1.39 (35.2) 8.1 (230) CLH-33DF 1¼ (33) 3.50 (88.9) 1.87 (47.6) 19.8 (560) Female Straight CLH-33DM Male Straight 1¼ (33) 3.76 (95.4) 1.87 (47.6) 19.8 (560) CLH-42DF Female Straight 1% (42) 3.92 (99.5) 2.35 (59.6) 35.3 (1,000) CLH-42DM 2.35 (59.6) Male Straight 1% (42) 4.21 (107.0) 37.7 (1.070)



TECHNICAL GUIDELINE

Installation guidelines are available for these connectors. Refer to the "Resources" section on our site for the Technical Guideline, "DIN Connectors and N Connectors Installation Guidelines," for more information.



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DIN Series for HFSC

PRODUCT DESCRIPTION

This DIN Series is compatible with the HFSC Feeder Series. The connectors are manufactured from an alloy material of copper, tin and zinc to produce a highly polished, precise, and strong connector. This alloy combination allows a better operating temperature range and improved environmental performance.

FEATURES/BENEFITS

- Two-piece design is the industry standard
- . Connector can be disassembled and re-used
- Excellent VSWR .
- Low PIMD .
- . Fast and easy to install
- Waterproof (IP68) .
- RoHS-compliant .

ELECTRICAL SPECIFICATIONS

Impedance Ω	50
Maximum Frequency Range GHz	7.5
VSWR (Mating) straight (right angle)	1 GHz: 1.08 (1.12) 2 GHz: 1.10 (1.15)
Maximum Insertion Loss dB @ 3 GHz	0.2
Intermodulation (PIM) dBc	< -155
Dielectric Withstanding Voltage kV rms @ 50 Hz	4.0
Working Voltage kV rms @ 50 Hz	2.7
Insulation Resistance $G\Omega$	10
Contact Resistance $m\Omega$	Inner: 0.4 Outer: 1.5

ENVIRONMENTAL SPECIFICATIONS			
Temperature Range °F (°C)	-49 to +185 (-45 to +85)		
Corrosion (Salt Spray Test)	IEC-68-2-11-Ka		
Vibration	CECC 22000 Part 4.6.3		
Waterproof	IP68		





SPECIFICATIONS			
Bodies, Cap (Coupling Nut) Material	Brass/silver plated or Su Co (Alloy of Cu/Sn/Zn) plated		
Back Nut Material	Brass/nickel plated		
Pin Material	Male: Brass/silver plated or Su Co (Alloy of Cu/Sn/Zn) plated Female: Beryllium - copper/silver plate or Su Co (Alloy of Cu/Sn/Zn) plate		
Insulator Material	Plated PTFE (Teflon®)		
Gasket Material	Silicon rubber		
Recommended Coupling Nut Torque Nm	25-30		
Coupling Nut Retention Force Nm	1,000		
Contact Captivation N	200		
Mating Durability	500 times		
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Teflon is a registered trademark of E. I. du Pont de Nemours and Company or its affiliates.

PART NUMBERS AND PHYSICAL CHARACTERISTICS **DIN Interface Type** Compatible Cable Size Diameter Weight Length Part Number Gender Straight or Angle in (mm) in (mm) in (mm) oz (g) CHFS-6DF 1⁄4 (6) 2.00 (50.9) 0.72 (18.5) 4.23 (120) Female Straight CHFS-6DM Male Straight 1/4 (6) 2.02 (51.3) 0.72 (18.5) 4.59 (130) CHFS-6DMR 2.21 (56.2) 0.72 (18.5) 7.05 (200) Male **Right Angle** 1⁄4 (6) 2.65 (67.4) 0.86 (21.8) 5.3 (150) CHFS-12DF Female Straight 1/2 (12) CHFS12DFR Female Right Angle 1/2 (12) CHFS-12DM Male Straight 1/2 (12) 2.57 (65.4) 0.86 (21.8) 6.5 (183)

1/2 (12)



CHFS12DMR

TECHNICAL GUIDELINE

Male

Installation guidelines are available for these connectors. Refer to the "Resources" section on our site for the Technical Guideline, "DIN Connectors and N Connectors Installation Guidelines," for more information.

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Right Angle



N Series for LHF



½ inch (12 mm)





7/8 inch (22 mm)

SPECIFICATIONS

Bodies, Cap (Coupling Nut) Material	Brass/silver plated or Su Co (Alloy of Cu/Sn/Zn) plated
Back Nut Material	Brass/nickel plated
Pin Material	Male: Brass/silver plated or Su Co (Alloy of Cu/Sn/Zn) plated Female: Beryllium - copper/silver plated or Su Co (Alloy of Cu/Sn/Zn) plated
Insulator Material	Plated PTFE (Teflon®)
Gasket Material	Silicon rubber
Recommended Coupling Nut Torque Nm	25-30
Coupling Nut Retention Force Nm	1,000
Contact Captivation N	200
Mating Durability	500 times

PRODUCT DESCRIPTION

This N Series is compatible with the LHF Feeder Series. The connectors are manufactured from an alloy material of copper, tin and zinc to produce a highly polished, precise, and strong connector. This alloy combination allows a better operating temperature range and improved environmental performance.

FEATURES/BENEFITS

- Two-piece design is the industry standard
- Simple 6-step user friendly installation process
- Ordinary tools needed; available in a common installers tool bag
- Connector can be disassembled and re-used
- Offers stable connections

ELECTRICAL SPECIFICATIONS	
Impedance Ω	50
Maximum Frequency Range GHz	7.5
VSWR (Mating) straight (right angle)	1 GHz: 1.08 (1.12) 2 GHz: 1.10 (1.15)
Maximum Insertion Loss dB @ 3 GHz	0.2
Intermodulation (PIM) dBc	< -155
Dielectric Withstanding Voltage kV rms @ 50 Hz	4.0
Working Voltage kV rms @ 50 Hz	2.7
Insulation Resistance GΩ	10
Contact Resistance $m\Omega$	Inner: 0.4 Outer: 1.5

ENVIRONMENTAL SPECIFICATIONS	
Temperature Range °F (°C)	-40 to +185 (-40 to +85)
Corrosion (Salt Spray Test)	IEC-68-2-11-Ka
Vibration	CECC 22000 Part 4.6.3
Waterproof	IP68

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PART NUMBERS AND PHYSICAL CHARACTERISTICS

	N Inte	erface Type	Compatible Cable Size	Length	Diameter	Weight
Part Number	Gender	Straight or Angle	in (mm)	in (mm)	in (mm)	oz (g)
CLH-12NF	Female	Straight	1⁄2 (12)	2.75 (69.8)	0.86 (21.8)	4.1 (115)
CLH-12NFR	Female	Right Angle	1⁄2 (12)	-	-	-
CLH-12NM	Male	Straight	1⁄2 (12)	2.75 (69.8)	0.86 (21.8)	4.2 (120)
CLH-12NMR	Male	Right Angle	1⁄2 (12)	-	-	-
CLH-22NF	Female	Straight	7⁄8 (22)	2.75 (69.9)	1.39 (35.2)	7.6 (215)
CLH-22NM	Male	Straight	⅔ (22)	2.86 (72.7)	1.39 (35.2)	7.6 (215)
CLH-33NF	Female	Straight	1¼ (33)	3.76 (95.5)	1.87 (47.6)	19.8 (560)
CLH-33NM	Male	Straight	1¼ (33)	3.86 (98.0)	1.87 (47.6)	19.8 (560)
CLH-42NF	Female	Straight	15% (42)	41.3 (105.0)	2.35 (59.6)	35.3 (1,000)
CLH-42NM	Male	Straight	1% (42)	4.25 (108.0)	2.35 (59.6)	37.7 (1,070)



TECHNICAL GUIDELINE

Installation guidelines are available for these connectors. Refer to the "Resources" section on our site for the Technical Guideline, "DIN Connectors and N Connectors Installation Guidelines," for more information.



TECH INFO INDEX

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N Series for HFSC

PRODUCT DESCRIPTION

This N Series is compatible with the HFSC Feeder Series. The connectors are manufactured from an alloy material of copper, tin and zinc to produce a highly polished, precise, and strong connector. This alloy combination allows a better operating temperature range and improved environmental performance.

FEATURES/BENEFITS

- Two-piece design is the industry standard
- · Connector can be disassembled and re-used
- Excellent VSWR
- Low PIMD
- Fast and easy to install
- Waterproof (IP68)
- RoHS-compliant

ELECTRICAL SPECIFICATIONS

Impedance Ω	50
Maximum Frequency Range GHz	7.5
VSWR (Mating) straight (right angle)	1 GHz: 1.08 (1.12) 2 GHz: 1.10 (1.15)
Maximum Insertion Loss dB @ 3 GHz	0.2
Intermodulation (PIM) dBc	< -155
Dielectric Withstanding Voltage kV rms @ 50 Hz	4.0
Working Voltage kV rms @ 50 Hz	2.7
Insulation Resistance $G\Omega$	10
Contact Resistance $m\Omega$	Inner: 0.4 Outer: 1.5

ENVIRONMENTAL	SPECIFICATIONS

Temperature Range °F (°C)	-40 to +185 (-40 to +85)
Corrosion (Salt Spray Test)	IEC-68-2-11-Ka
Vibration	CECC 22000 Part 4.6.3
Waterproof	IP68



½ inch (12 mm)

SPECIFICATIONS			
Bodies, Cap (Coupling Nut) Material	Brass/silver plated or Su Co (Alloy of Cu/Sn/Zn) plated		
Back Nut Material	Brass/nickel plated		
Pin Material	Male: Brass/silver plated or Su Co (Alloy of Cu/Sn/Zn) plated Female: Beryllium - copper/silver plated or Su Co (Alloy of Cu/Sn/Zn) plated		
Insulator Material	Plated PTFE (Teflon®)		
Gasket Material	Silicon rubber		
Recommended Coupling Nut Torque Nm	25-30		
Coupling Nut Retention Force Nm	1,000		
Contact Captivation N	200		
Mating Durability	500 times		
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PART NUMBERS AND PHYSICAL CHARACTERISTICS

	N Inte	erface Type	Compatible Cable Size	Length	Diameter	Weight
Part Number	Gender	Straight or Angle	in (mm)	in (mm)	in (mm)	oz (g)
CHFS-6NF	Female	Straight	1⁄4 (6)	2.16 (54.9)	0.72 (18.5)	3.35 (95)
CHFS-6NM	Male	Straight	1⁄4 (6)	2.20 (56.0)	0.72 (18.5)	3.52 (100)
CHFS-6NMR	Male	Right Angle	1⁄4 (6)	2.21 (56.2)	0.72 (18.5)	7.05 (200)
CHFS-12NF	Female	Straight	1⁄2 (12)	2.75 (69.8)	0.86 (21.8)	4.1 (115)
CHFS12NFR	Female	Right Angle	1⁄2 (12)	-	-	-
CHFS-12NM	Male	Straight	1⁄2 (12)	2.75 (69.8)	0.86 (21.8)	4.2 (120)
CHFS12NMR	Male	Right Angle	1⁄2 (12)	-	-	-
		0 0				



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Ed 13.0

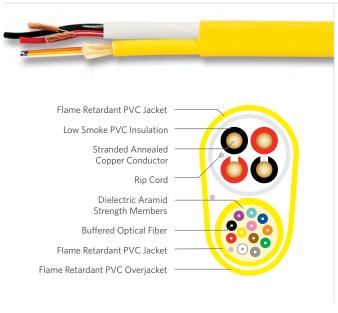
TECHNICAL GUIDELINE

Installation guidelines are available for these connectors. Refer to the "Resources" section on our site for the Technical Guideline, "DIN Connectors and N Connectors Installation Guidelines," for more information.

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D-11



COPPER COMPONENT SPECIFICATIONS		
Configuration	Stranded bare copper with uniquely colored insulation, jacketed, non-shielded	
Conductor Count	4 conductors	
Conductor	Fully annealed, stranded bare copper	
Conductor Type	19 x 0.185"	
AWG (mm)	12 (2.05)	
Insulation	Low smoke PVC	
Insulation Colors	Conductor 1: Black Conductor 2: Red Conductor 3: Black with white stripe Conductor 4: Red with white stripe	
Jacket	White, Flame Retardant (FR) PVC	
Performance Compliance	NEC Article 725 NEC Article 800 NFPA 262	
NRTL Programs	UL Listed CL3P	

OPTICAL	FIBER CON	PONENT 9	SPECIFICA	TION
OTTICAL	I DER CON			

Configuration	Flexible 900 μm tight buffered fibers, dielectric aramid yarns and overall jacket
Fiber Count	12
Fiber Type	Single mode TeraFlex® Bend Resistant G.657.A1
Maximum Tensile Loading Ibs (N)	Install: 100 (400) Long Term: 30 (130)
Jacket	Yellow, FR PVC
Performance Compliance	UL 1651 CSA C22.2 No. 232 NFPA 262 Telcordia® GR-409-CORE, Issue 2 ANSI/ICEA S-83-596 ANSI/TIA-568-C.3
NRTL Programs	UL, c(UL) Listed OFNP

PRODUCT DESCRIPTION

A jacketed multi-strand optical fiber cable and a jacketed multiconductor copper cable are covered with an overjacket to form a single hybrid cable. The optical fiber cable contains 12 flexible 900 μ m tight buffered single mode fibers for voice and data communications. The non-shielded copper cable contains four 12 AWG conductors ideal for carrying power, control signals and video.

Hybrid cables are intended for applications that utilize centralized DC power and comply with NEC Article 725 for Class 2 power limited circuits. A hybrid cable reduces installation time and labor by allowing both fiber and copper cables to be pulled as a single cable, eliminating the need for two separate pulls. Labor costs are further minimized because the cable can be pulled by a telecom installer instead of an electrician.

APPLICATIONS

- Distributed Antenna Systems (DAS)
- CCTV
- Wi-Fi

FEATURES

• Two cables covered with an • One pull eliminates the time and overjacket to form a single cable labor cost for a second pull • Overjacket design plus rip cord . Easy to separate and route fiber and copper to different termination points • NEC Class 2 power limited circuit • Installation doesn't have to be done by an electrician • UL® 13 CL2P plenum rated • Cable can be installed throughout a building, including air carrying plenum space, without being enclosed in a raceway • 900 µm tight buffered · Easy connectorization in the field Large 12 AWG copper wires For long cable runs QuickCount[®] marking system Provides remaining length of cable . in feet and meters on reel, resulting in less scrap

BENEFITS

COMPOSITE SPECIFICATIONS	
Jacket	Yellow, FR PVC
Performance Compliance	NEC Article 725 ANSI/ICEA S-83-596 RoHS-compliant (RoHS 2 Directive 2011/65/EU)
NRTL Programs	UL Listed CL2P

ENVIRONMENTAL SPECIFICATIONS		
Storage/Shipping	-40°C to +65°C	
Operation	0°C to +75°C	

Telcordia is a registered trademark of Ericsson Inc. UL is a registered trademark of UL LLC.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

	Copper Component	Fiber Component		inal Diameter mm)	Approx.		ım Tensile ading	Minimum I	Bend Radius
Part Number	Nominal Diameter in (mm)	Nominal Diameter in (mm)	Minor in (mm)	Major in (mm)	Weight lbs/kft	Install Ibs	Long Term Ibs	Install in (mm)	Long Term in (mm)
F4C2-012U13-6991-CE5	0.29 (7.31)	0.24 (6.2)	0.38 (9.66)	0.62 (15.76)	160	150	45	7.6 (193)	3.8 (96)



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DAS Hybrid, Interlock Armored

Fiber + Copper

PRODUCT DESCRIPTION

A jacketed multi-strand optical fiber cable and a jacketed multiconductor copper cable are covered with an overjacket to form a single hybrid cable. The optical fiber cable contains 12 flexible 900 μ m tight buffered single mode fibers for voice and data communications. The non-shielded copper cable contains four 12 AWG conductors ideal for carrying power, control signals and video.

Hybrid cables are intended for applications that utilize centralized DC power and comply with NEC Article 725 for Class 2 power limited circuits. A hybrid cable reduces installation time and labor by allowing both fiber and copper cables to be pulled as a single cable, eliminating the need for two separate pulls. Labor costs are further minimized because the cable can be pulled by a telecom installer instead of an electrician.

APPLICATIONS

- Distributed Antenna Systems (DAS)
- CCTV
- Wi-Fi

FEATURES	BENEFITS
 Two cables covered with an overjacket to form a single cable 	One pull eliminates the time and labor cost for a second pull
Overjacket design plus rip cord	• Easy to separate and route fiber and copper to different termination points
NEC Class 2 power limited circuit	 Installation doesn't have to be done by an electrician
UL [®] 13 CL2P plenum rated	• Cable can be installed throughout a building, including air carrying plenum space, without being enclosed in a raceway
 900 μm tight buffered 	• Easy connectorization in the field
 Large 12 AWG copper wires 	For long cable runs
 QuickCount[®] marking system in feet and meters 	 Provides remaining length of cable on reel, resulting in less scrap

Aluminum Interlock Armor with Flame Retardant PVC Overjacket Flame Retardant PVC Jacket Low Smoke PVC Insulation Rip Cords	
Stranded Annealed Copper Conductor	
Dielectric Aramid Strength Members	
Buffered Optical Fiber	
Flame Retardant PVC Jacket	
Flame Retardant PVC Overjacket	

COPPER COMPONENT SPECIFICATIONS				
Configuration	Stranded bare copper with uniquely colored insulation, jacketed, non-shielded			
Conductor Count	4 conductors			
Conductor	Fully annealed, stranded bare copper			
Conductor Type	19 x 0.185"			
AWG (mm)	12 (2.05)			
Insulation	Low smoke PVC			
Insulation Colors	Conductor 1: Black Conductor 2: Red Conductor 3: Black with white stripe Conductor 4: Red with white stripe			
Jacket	White, Flame Retardant (FR) PVC			
Performance Compliance	NEC Article 725 NEC Article 800 NFPA 262			
NRTL Programs	UL Listed CL3P			

OPTICAL FIBER COMPONENT SPECIFICATIONS

Configuration

Fiber Count

Fiber Type

lbs (N) Jacket

Maximum Tensile Loading

Performance Compliance

NRTL Programs

COMPOSITE SPECIFICATIONS				
Jacket	Yellow, FR PVC			
Armor	Flexible heavy duty interlocking aluminum tape helically applied over the jacketed fiber and copper cables			
Performance Compliance	NEC Article 725 ANSI/ICEA S-83-596 RoHS-compliant (RoHS 2 Directive 2011/65/EU)			
NRTL Programs	UL Listed CL2P			

ENVIRONMENTAL SPECIFICATIONS		
Storage/Shipping	-40°C to +70°C	
Operation	0°C to +70°C	
Installation	0°C to +60°C	

PART NUMBERS AND PHYSICAL CHARACTERISTICS

PART NOMBERS AND PHISICAE CHARACTERISTICS								
Copper Component Fiber Component			Approx.	Maximum Tensile Loading		Minimum Bend Radius		
Part Number	Nominal Diameter in (mm)	Nominal Diameter in (mm)	Overall Nominal Diameter in (mm)	Weight Ibs/kft	Install Ibs	Long Term Ibs	Install in (mm)	Long Term in (mm)
F2C2-012U13-6991-CE5	0.29 (7.31)	0.24 (6.2)	0.87 (22.0)	315	150	45	17.3 (440)	8.7 (220)

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Flexible 900 μm tight buffered fibers,

Single mode TeraFlex® Bend Resistant

Telcordia[®] GR-409-CORE, Issue 2 ANSI/ICEA S-83-596 ANSI/TIA-568-C.3

dielectric aramid yarns and

overall jacket

G.657.A1 Install: 100 (400)

Yellow, FR PVC UL 1651 CSA C22.2 No. 232 NFPA 262

Long Term: 30 (130)

UL, c(UL) Listed OFNP

12

LHF Riser

Low Loss High Flexible Foam Dielectric Feeder

SPECIFICATIONS

Flame Retardant Jacket Corrugated Copper Tube Conductor Copper-Clad Aluminum Conductor Foamed Polyethylene Dielectric Insulation	

PRODUCT DESCRIPTION

LHF-12DR is a ¹/₂ inch. 50 Ohm Riser Rated RF coaxial cable that enables mobile communications inside buildings. Installed to eliminate dead zones and spotty coverage, this cable functions as the backbone cable of in-building DAS wireless systems. With its riser (CMR) rating, this coaxial cable offers flexibility and high crush resistance in a ¹/₂ inch size. Designed for high performance, its copper clad aluminum inner conductor, foamed PE dielectric insulation, corrugated copper outer conductor, and its black outer riser rated jacket exceed the requirements of all in-building DAS active systems.

BENEFITS

· Highly efficient signal transfer

Outperforms the industry

requirements for low PIM Rugged and durable jacket slows

the spread of flame without releasing toxic smoke

Suitable for vertical cable runs

in a shaft or that penetrate more

than one floor within a building

Shortens installation time

and expenses

VSWR

≤ 1.15

≤ 1.15

APPLICATIONS

- In-building Wireless
- Distributed Antenna System (DAS)

FEATURES

- Lowest attenuation Low passive intermodulation
- Non-halogenated, fire retardant, black polyethylene jacket
- ETL Certified CMR (UL® 1666)/ CATVR (UL 1581)
- Full range of easy to install connectors and an automated cable prep tool

RELATED PRODUCTS

Connectors CLH-12xx

Frequency МНz

806-960

1,700-2,155

Cable prep tool T-LHF12DR

Inner Conductor Material	Copper-clad aluminum
Dielectric Material	Foamed polyethylene
Outer Conductor Material	Corrugated copper tube
Jacket Material	Black, flame retardant PE
Recommended Operating Temperature °F (°C)	-22 to +167 (-30 to +75)

PART NUMBERS AND PHYSICAL CHARACTERISTICS

									(
	Cable Size			al Diameter (mm)		Minimum Bend Radius	Approx. Weight	Flat Plate Crush Resistance	Maximum Pulling Force
Part Number	in (mm)	Inner Conductor	Dielectric	Outer Conductor	Jacket	in (mm)	lbs/kft (kg/km)	lbs/in (kg/mm)	lbs (kg)
LHF-12DR	1⁄2 (12)	0.19 (5.0)	0.49 (12.5)	0.55 (14.1)	0.64 (16.3)	4.90 (125)	165 (256)	112 (2.0)	249 (113)

ELECTRICAL SPECIFICATIONS Conductor DC Resistance Minimum Maximum Ohms/kft (Ohms/km) Insulation **Dielectric Strength** Velocity of Peak Power Operating Characteristic Typical Cable Size Return Loss Resistance for 1 minute Propagation Rating Frequency Impedance Part Number in (mm) Inner Outer mΩ km DC Potential - Volts % kW GHz Ohms dB LHF-12DR 1/2 (12) 0.50 (1.6) 0.85 (2.8) 10,000 4,000 89 40 8.8 50 ± 1 23

Frequency MHz	Nominal Attenuation* dB/100 ft (dB/100 m)	Average Power Rating at Ambient 40°C Inner Conductor 100°C kW
30	0.35 (1.14)	6.10
100	0.65 (2.12)	3.32
150	0.79 (2.60)	2.71
450	1.40 (4.58)	1.55
824	1.92 (6.31)	1.13
890	2.00 (6.55)	1.09
960	2.08 (6.84)	1.05
1,000	2.13 (7.00)	1.03
1,700	2.84 (9.32)	0.78
1,800	2.93 (9.61)	0.76
2,000	3.11 (10.19)	0.71
2,400	3.38 (11.10)	0.65
3,000	3.95 (12.96)	0.58
4,000	-	0.50

*The attenuation may rise by 0.2%/°C with rising temperature. Maximum attenuation shall not exceed 105% of nominal value. Standard Conditions: VSWR 1.0, Ambient Temperature 20°C/Attenuation is typical value. UL is a registered trademark of UL LLC.



D-14

All information, content, data, specifications, packaging and part numbers detailed herein are subject to change. For the most up-to-date information, please visit SuperiorEssex.com. Purchase of this product is subject exclusively to the then current **Superior Essex International LP Terms and Conditions of Sale for Communications and Energy Cable, Wire and Connectivity Products**, which can be found on our website, SuperiorEssex.com, or provided to you upon request.

PRODUCT DESCRIPTION

LHF-12DP is a 1/2 inch, low loss 50 Ohm Plenum Rated RF coaxial cable that is installed in the plenum space of a building as part of an in-building DAS system to eliminate dead zones and spotty coverage. Designed with a copper clad aluminum center conductor, air dielectric center structure, helically corrugated copper tube outer conductor, and Plenum Rated outer jacket, the LHF-12DP is a high performing cable with low loss attenuation.

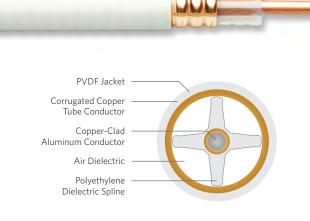
APPLICATIONS

- In-building Wireless
- Distributed Antenna System (DAS)

FEATURES	BENEFITS
Lowest attenuation	 Highly efficient signal transfer
Low passive intermodulation	 Outperforms the industry requirements for low PIM
High-quality, white PVDF jacket	 Flame retardant and low smoke; blends with background for optimal building aesthetics
• ETL Certified CMP (UL® 444)	 Safe to use throughout a building, including air carrying plenum space
 Full range of easy to install connectors and an automated cable prep tool 	 Shortens installation time and expenses
RELATED PRODUCTS	

- Connectors CLHP-12xx
- Cable prep tool T-LHFA12DP

PART NUMBERS AND PHYSICAL CHARACTERISTICS



SPECIFICATIONS	
Inner Conductor Material	Copper-clad aluminum
Dielectric Material	Polyethylene
Outer Conductor Material	Corrugated copper tube
Jacket Material	White, PVDF
Recommended Operating Temperature °F (°C)	-4 to +167 (-20 to +75)

	Cable Size			l Diameter (mm)		Minimum Bend Radius	Approx. Weight	Flat Plate Crush Resistance	Maximum Pulling Force
Part Number	in (mm)	Inner Conductor	Dielectric	Outer Conductor	Jacket	in (mm)	lbs/kft (kg/km)	lbs/in (kg/mm)	lbs (kg)
LHF-12DP	1⁄2 (12)	0.19 (4.8)	0.47 (12.0)	0.54 (13.8)	0.58 (14.8)	5.91 (150)	139 (207)	58 (1.05)	249 (113)

ELECTRICAL SPECIFICATIONS

		Conductor DC Resistance Ohms/kft (Ohms/km)		Minimum Insulation Dielectric Strength	Velocity of Peak Powe			Typical		
Part Number	Cable Size in (mm)	Inner	Outer	Resistance mΩ km	for 1 minute DC Potential - Volts	Propagation %	Rating kW	Frequency GHz	Impedance Ohms	Return Loss dB
LHF-12DP	1⁄2 (12)	0.50 (1.6)	0.85 (2.8)	10,000	4,000	88	40	8.8	50 ± 2	19

Frequency MHz	Nominal Attenuation* dB/100 ft (dB/100 m)	Average Power Rating at Ambient 40°C Inner Conductor 100°C kW
30	0.35 (1.15)	4.70
100	0.65 (2.14)	2.54
150	0.80 (2.64)	2.06
450	1.43 (4.68)	1.15
824	1.97 (6.46)	0.83
890	2.05 (6.73)	0.80
960	2.14 (7.02)	0.77
1,000	2.18 (7.17)	0.75
1,700	2.92 (9.58)	0.56
1,800	3.01 (9.89)	0.54
2,000	3.19 (10.48)	0.51
2,400	3.53 (11.60)	0.46
3,000	4.07 (13.37)	0.40
*The attenuation may rise by (0.2%/°C with rising temperature.	

.2%/°C with risina tem Maximum attenuation shall not exceed 105% of nominal value

Standard Conditions: VSWR 1.0, Ambient Temperature 20°C/Attenuation is typical value. UL is a registered trademark of UL LLC.

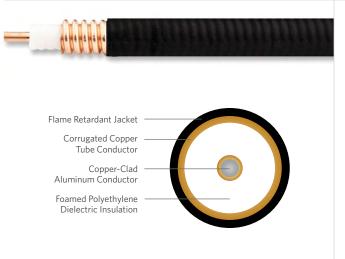
Frequency MHz	VSWR
806-960	<u>≤</u> 1.25
1,700-2,155	≤ 1.25



D-15

HFSC Riser

Super Flexible Foam Dielectric Feeder



PRODUCT DESCRIPTION

HFSC-12DR is a ¹/₂ inch. 50 Ohm Riser Rated RF coaxial cable that enables mobile communications inside buildings. Installed to eliminate dead zones and spotty coverage, this cable functions as the backbone cable of in-building DAS wireless systems. With its riser (CMR) rating, this coaxial cable offers flexibility and high crush resistance in a 1/2 inch size. Designed for high performance, its copper clad aluminum inner conductor, foamed PE dielectric insulation, corrugated copper outer conductor and its black outer riser rated jacket exceed the requirements of all in-building DAS active systems.

BENEFITS

.

VSWR

≤ 1.15

<u><</u> 1.15

Super flexible cable is ideally

suited for installations where

multiple bends are required

Highly efficient signal transfer

Outperforms the industry

requirements for low PIM

the spread of flame without releasing toxic smoke

Shortens installation time

and expenses

Suitable for vertical cable runs

in a shaft or that penetrate more than one floor within a building

Rugged and durable jacket slows

APPLICATIONS

- In-building Wireless
- Distributed Antenna System (DAS)

FEATURES

- Low minimum bending radius and bending moment
- Low attenuation
- Non-halogenated, fire retardant, black polyethylene jacket
- ETL Certified CMR (UL® 1666)/ CATVR (UL 1581)
- Full range of easy to install
- Connectors CHFS-12xx
- Cable prep tool T-HFSC12DR
- Jumpers JR12xxxxx

PART NUMBERS AND PHYSICAL CHARACTERISTICS

	Cable Size			al Diameter (mm)		Minimum Bend Radius	Approx. Weight	Flat Plate Crush Resistance	Maximum Pulling Force
Part Number	in (mm)	Inner Conductor	Dielectric	Outer Conductor	Jacket	in (mm)	lbs/kft (kg/km)	lbs/in (kg/mm)	lbs (kg)
HFSC-12DR	1⁄2 (12)	0.14 (3.6)	0.35 (8.9)	0.48 (12.2)	0.55 (13.9)	1.26 (32)	137 (204)	95 (1.7)	143 (65)

ELECTRICAL SPECIFICATIONS										
			C Resistance (Ohms/km)	Minimum Insulation	Dielectric Strength	Velocity of	Peak Power	Maximum Operating	Characteristic	Typical
Part Number	Cable Size in (mm)	Inner	Outer	Resistance mΩ km	for 1 minute DC Potential - Volts	Propagation %	Rating kW	Frequency GHz	Impedance Ohms	Return Loss dB
HFSC-12DR	1⁄2 (12)	0.87 (2.85)	1.14 (3.75)	10,000	2,500	81	15.6	10.0	50 ± 2	23

Frequency MHz	Nominal Attenuation* dB/100 ft (dB/100 m)	Average Power Rating at Ambient 40°C Inner Conductor 100°C kW
30	0.55 (1.80)	4.87
100	1.02 (3.33)	2.62
150	1.25 (4.10)	2.12
450	2.20 (7.29)	1.19
824	3.08 (10.10)	0.85
890	3.20 (10.50)	0.82
960	3.35 (11.00)	0.79
1,000	3.41 (11.20)	0.77
1,700	4.57 (15.00)	0.57
1,800	4.72 (15.50)	0.55
2,000	5.00 (16.40)	0.52
2,400	5.55 (18.20)	0.47
3,000	6.31 (20.70)	0.41

*The attenuation may rise by 0.2%/°C with rising temperature. Maximum attenuation shall not exceed 105% of nominal value. Standard Conditions: VSWR 1.0, Ambient Temperature 20°C/Attenuation is typical value. UL is a registered trademark of UL LLC.



800.551.8948 SuperiorEssex.com All information, content, data, specifications, packaging and part numbers detailed herein are subject to change. For the most up-to-date information, please visit SuperiorEssex.com. Purchase of this product is subject exclusively to the then current **Superior Essex International LP Terms and Conditions of Sale for Communications and Energy Cable, Wire and Connectivity Products**, which can be found on our website, SuperiorEssex.com, or provided to you upon request.

- Low passive intermodulation

 - connectors and an automated cable prep tool

RELATED PRODUCTS

Frequency

MHz 806-960

1,700-2,155

SPECIFICATIONS Inner Conductor Material Copper-clad aluminum **Dielectric Material** Foamed polyethylene **Outer Conductor Material** Corrugated copper tube Jacket Material Black, flame retardant PE **Recommended Operating Temperature** -22 to +167 (-30 to +75) °F (°C)

HFSC-12DP is a ½ inch, 50 ohm Plenum Rated RF coaxial cable that enables mobile communications inside buildings. Installed to eliminate dead zones and spotty coverage, this cable is normally installed in the plenum space on runs to ceiling antennas spaced through DAS wireless systems. With its Plenum (CMP) rating, this coaxial cable offers crush resistance in a ¹/₂ inch Super Flexible construction. Designed for high performance, its copper clad aluminum inner conductor, air dielectric center support, helically corrugated copper tube outer conductor and its white outer plenum rated jacket exceeds the RF requirements of all in-building DAS active systems.

BENEFITS

APPLICATIONS

- In-building Wireless
- Distributed Antenna System (DAS)

FEATURES

- · Low minimum bending radius and bending moment
- Low attenuation
- Low passive intermodulation
- High-quality, white PVDF jacket
- ETL Certified CMP (UL® 444)
- Full range of easy to install connectors and an automated cable prep tool

RELATED PRODUCTS

- Connectors CHFSP12xx
- Cable prep tool T-HFSC12DP
- Jumpers JP12xxxxx

	suited for installations where
	multiple bends are required
٠	Highly efficient signal transfer
	Outperforms the industry
	requirements for low PIM

Super flexible cable is ideally

- Flame retardant and low smoke; blends with background for optimal building aesthetics
- Safe to use throughout a building including air carrying plenum space
- Shortens installation time and expenses

SPECIFICATIONS	
Inner Conductor Material	Copper-clad aluminum
Dielectric Material	Polyethylene
Outer Conductor Material	Corrugated copper tube
Jacket Material	White, PVDF
Recommended Operating Temperature °F (°C)	-4 to +167 (-20 to +75)

PVDF Jacket

Copper-Clad Aluminum Conductor

Air Dielectric

Polyethylene **Dielectric Spline**

Corrugated Copper Tube Conductor

PART NUMBERS AND PHYSICAL CHARACTERISTICS										
	Cable Size		Nominal Diameter in (mm)				Approx. Weight	Flat Plate Crush Resistance	Maximum Pulling Force	
Part Number	in (mm)	Inner Conductor	Dielectric	Outer Conductor	Jacket	in (mm)	lbs/kft (kg/km)	lbs/in (kg/mm)	(kg)	
HFSC-12DP	1⁄2 (12)	0.14 (3.6)	0.35 (8.9)	0.48 (12.2)	0.52 (13.2)	1.26 (32)	131 (195)	95 (1.7)	143 (65)	

ELECTRICAL	SPECIFICATIO	ONS								
			OC Resistance (Ohms/km)	Insulation	Dielectric Strength	Velocity of	Peak Power	Maximum Operating	Characteristic	Typical
Part Number	Cable Size in (mm)	Inner	Outer	Resistance mΩ km	for 1 minute DC Potential - Volts	Propagation %	Rating kW	Frequency GHz	Impedance Ohms	Return Loss dB
HFSC-12DP	1⁄2 (12)	0.86 (2.85)	1.14 (3.75)	10,000	2,500	81	15.6	10.0	50 ± 2	23

Frequency	Attenuation at 20°C dB/100 ft (dB/100 m)	Average Power Rating at Ambient 40°C Inner Conductor 100°C kW
MHz	HFSC-12DP	HFSC-12DP
30	0.55 (1.80)	3.23
100	1.01 (3.33)	1.73
150	1.25 (4.10)	1.40
450	2.22 (7.29)	0.78
824	3.08 (10.10)	0.56
894	3.20 (10.50)	0.54
960	3.35 (11.00)	0.51
1,000	3.41 (11.20)	0.50
1,700	4.57 (15.00)	0.37
1,800	4.72 (15.50)	0.36
2,000	5.00 (16.40)	0.34
2,400	5.55 (18.20)	0.30
3,000	6.31 (20.70)	0.27

Standard Conditions: VSWR 1.0, Ambient Temperature 20°C/Attenuation is typical value. UL is a registered trademark of UL LLC.

Frequency мнz VSWR 806-960 ≤ 1.25 1,700-2,155 ≤ 1.25

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Flame Retardant Jacket

Corrugated Aluminum

Foamed Polyethylene Dielectric Insulation

Tube Conductor

Copper-Clad Aluminum Conductor

WIRELESS

SPECIFICATIONS	
Inner Conductor Material	Copper-cla
Dielectric Material	Foamed po
Outer Conductor Material	Corrugated
Jacket Material	Black, flame
Recommended Operating Temperature	221 11/7

PRODUCT DESCRIPTION

HFAC-12DR is a ¹/₂ inch, 50 Ohm Riser Rated RF Coaxial Cable that enables mobile communications inside buildings. Installed to eliminate dead zones and spotty coverage, this cable functions as the backbone cable of in-building, DAS wireless systems. With its riser (CMR) rating, this coaxial cable offers flexibility and high crush resistance in a ½ inch size. Designed for high performance, its copper clad aluminum inner conductor, foamed PE dielectric insulation, corrugated aluminum outer conductor and its black outer riser rated jacket exceed the requirements of all in-building DAS active systems.

BENEFITS

APPLICATIONS

- In-building Wireless
- Distributed Antenna System (DAS)

FEATURES

- Low attenuation
- Low passive intermodulation Outperforms the industry requirements for low PIM
- Non-halogenated, fire retardant, black polyethylene Jacket
- ETL Certified CMR(UL® 1666)/ CATVR (UL 1581)
- Full range of easy to install connectors and an automated cable prep tool

RELATED PRODUCTS

Connectors CHFA-12xx

Frequency

МНz 806-960

1,700-2,155

VSWR

≤ 1.20

<u>≤</u> 1.20

- Cable prep tool T-HFA12DR .
- releasing toxic smoke Suitable for vertical cable runs . in a shaft or that penetrate more than one floor within a building

the spread of flame without

Highly efficient signal transfer

Rugged and durable jacket slows

Shortens installation time and expenses

	copper clad aluminum
Dielectric Material	Foamed polyethylene
Outer Conductor Material	Corrugated aluminum tube
Jacket Material	Black, flame retardant PE
Recommended Operating Temperature °F (°C)	-22 to +167 (-30 to +75)

d aluminum

PART NUMBERS AND PHYSICAL CHARACTERISTICS									
	Cable Size			l Diameter (mm)		Minimum Bend Radius	Approx. Weight	Flat Plate Crush Resistance	Maximum Pulling Force
Part Number	in (mm)	Inner Conductor	Dielectric	Outer Conductor	Jacket	in (mm)	lbs/kft (kg/km)	lbs/in (kg/mm)	lbs (kg)
HFAC-12DR	1⁄2 (12)	0.19 (4.8)	0.47 (12.0)	0.54 (13.8)	0.63 (15.9)	4.92 (125)	60 (198)	84 (1.5)	174 (79)

ELECTRICAL	SPECIFICATIO	ONS								
			C Resistance (Ohms/km)	Minimum Insulation	Dielectric Strength	Velocity of	Peak Power	Maximum Operating	Characteristic	Typical
Part Number	Cable Size in (mm)	Inner	Outer	Resistance mΩ km	for 1 minute DC Potential - Volts	Propagation %	Rating kW	Frequency GHz	Impedance Ohms	Return Loss dB
HFAC-12DR	1⁄2 (12)	0.50 (1.6)	0.67 (2.2)	10,000	4,000	88	40	8.8	50 ± 1	21

Frequency MHz	Nominal Attenuation* dB/100 ft (dB/100 m)	Average Power Rating at Ambient 40°C Inner Conductor 100°C kW
30	0.39 (1.29)	5.95
100	0.72 (2.37)	3.24
150	0.89 (2.92)	2.63
450	1.57 (5.14)	1.50
824	2.15 (7.06)	1.09
890	2.24 (7.35)	1.05
960	2.33 (7.65)	1.01
1,000	2.38 (7.82)	0.99
1,700	3.16 (10.38)	0.75
1,800	3.26 (10.70)	0.73
2,000	3.45 (11.33)	0.69
2,400	3.81 (12.51)	0.62
3,000	4.32 (14.17)	0.55

*The attenuation may rise by 0.2%/°C with rising temperature. Maximum attenuation shall not exceed 110% of nominal value. Standard Conditions: VSWR 1.0, Ambient Temperature 20°C/Attenuation is typical value. UL is a registered trademark of UL LLC.



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PRODUCT DESCRIPTION

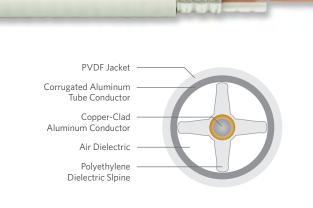
HFAC-12DP is a 1/2 inch, low loss 50 Ohm Plenum Rated RF coaxial cable that is installed in the plenum space of a building as part of an in-building DAS system to eliminate dead zones and spotty coverage. Designed with a copper clad aluminum center conductor, air dielectric center structure, helically corrugated aluminum tube outer conductor, and Plenum Rated outer jacket, the HFAC-12DP is a high performing cable with low loss attenuation.

APPLICATIONS

- In-building Wireless
- Distributed Antenna System (DAS)

FEATURES	BENEFITS
Low attenuation	Highly efficient signal transfer
Low passive intermodulation	 Outperforms the industry requirements for low PIM
High-quality, white PVDF jacket	 Flame retardant and low smoke; blends with background for optimal building aesthetics
• ETL Certified CMP (UL® 444)	 Safe to use throughout a building including air carrying plenum space
 Full range of easy to install connectors and an automated cable prep tool 	 Shortens installation time and expenses
RELATED PRODUCTS	

- Connectors CHFAP-12xx
- Cable prep tool T-LHFA12DP .



SPECIFICATIONS	
Inner Conductor Material	Copper-clad aluminum
Dielectric Material	Polyethylene
Outer Conductor Material	Corrugated aluminum tube
Jacket Material	White, PVDF
Recommended Operating Temperature °F (°C)	-4 to +167 (-20 to +75)

PART NUMBER	RS AND PHYS	SICAL CHARACTER	RISTICS						
	Cable Size		Nominal Diameter in (mm)			Minimum Bend Radius	Approx. Weight	Flat Plate Crush Resistance	Maximum Pulling Force
Part Number	in (mm)	Inner Conductor	Dielectric	Outer Conductor	Jacket	in (mm)	lbs/kft (kg/km)	lbs/in (kg/mm)	lbs (kg)
HFAC-12DP	1⁄2 (12)	0.19 (4.8)	0.47 (12.0)	0.54 (13.8)	0.58 (14.8)	5.91 (150)	111 (166)	39 (0.7)	174 (79)

ELECTRICAL	CDECIFICATIONS
ELECIKICAL	SPECIFICATIONS

			C Resistance Ohms/km)	Minimum Insulation	Dielectric Strength	Velocity of	Peak Power	Maximum Operating	Characteristic	Typical
Part Number	Cable Size in (mm)	Inner	Outer	Resistance mΩ km	for 1 minute DC Potential - Volts	Propagation %	Rating kW	Frequency GHz	Impedance Ohms	Return Loss dB
HFAC-12DP	1⁄2 (12)	0.50 (1.6)	0.67 (2.2)	10,000	4,000	88	40	8.8	50 ± 2	19

Frequency MHz	Nominal Attenuation* dB/100 ft (dB/100 m)	Average Power Rating at Ambient 40°C Inner Conductor 100°C kW
30	0.40 (1.32)	4.46
100	0.73 (2.41)	2.41
150	0.90 (2.97)	1.95
450	1.59 (5.22)	1.10
824	2.19 (7.19)	0.79
890	2.28 (7.49)	0.76
960	2.38 (7.81)	0.73
1,000	2.43 (7.98)	0.71
1,700	3.25 (10.66)	0.53
1,800	3.36 (11.03)	0.52
2,000	3.63 (11.90)	0.49
2,400	3.93 (12.90)	0.44
3,000	4.44 (14.57)	0.39

*The attenuation may rise by 0.2%/°C with rising temperature. Maximum attenuation shall not exceed 110% of nominal value. Standard Conditions: VSWR 1.0, Ambient Temperature 20°C/Attenuation is typical value. UL is a registered trademark of UL LLC.

Frequency MHz	VSWR
806-960	<u>≤</u> 1.25
1,700-2,155	< 1.25



DAS Riser Jumper Cable



PRODUCT DESCRIPTION

Jumper cables offer outstanding electrical performance and reliability, high durability for tight routing, and superior environmental sealing for sustained longevity.

Available in $\frac{1}{2}$ inch diameters, jumper cables are used in areas that require an extremely small bending radius between main feeders and antennas or between main feeders and RF equipment.

FEATURES/BENEFITS

- High pull-off strength
- Excellent VSWR performance
- Low and stable passive intermodulation
- Weatherproof

SPECIFICATIONS	
Compatible Cable Type	HFSC-12DR
Compatible Cable Size in (mm)	1⁄2 (12)
Minimum Bend Radius in (mm)	1.38 (35)
Typical VSWR	1.08 over Cellular, PCS and 3G-band
Intermodulation (PIM) dBc	< -158

PART NUMBERS AND PHYSICAL CHARACTERISTICS

	Interfa	асе Туре	Standard Length	
Part Number	End 1	End 2	ft (m)	Unit of Measure
JR121NMNM	N Male Straight	N Male Straight	3.2 (1)	Each
JR122NMNM	N Male Straight	N Male Straight	6.6 (2)	Each
JR123NMNM	N Male Straight	N Male Straight	9.8 (3)	Each
JR121NMNF	N Male Straight	N Female Straight	3.2 (1)	Each
JR122NMNF	N Male Straight	N Female Straight	6:6 (2)	Each
JR123NMNF	N Male Straight	N Female Straight	9.8 (3)	Each
JR121NFNF	N Female Straight	N Female Straight	3.2 (1)	Each
JR122NFNF	N Female Straight	N Female Straight	6.6 (2)	Each
JR123NFNF	N Female Straight	N Female Straight	9.8 (3)	Each
JR121NMRM	N Male Straight	N Male Right Angle	3.2 (1)	Each
JR122NMRM	N Male Straight	N Male Right Angle	6.6 (2)	Each
JR123NMRM	N Male Straight	N Male Right Angle	9.8 (3)	Each
JR121NMRF	N Male Straight	N Female Right Angle	3.2 (1)	Each
JR122NMRF	N Male Straight	N Female Right Angle	6.6 (2)	Each
JR123NMRF	N Male Straight	N Female Right Angle	9.8 (3)	Each
JR121NFRF	N Female Straight	N Female Right Angle	3.2 (1)	Each
JR122NFRF	N Female Straight	N Female Right Angle	6.6 (2)	Each
JR123NFRF	N Female Straight	N Female Right Angle	9.8 (3)	Each

EXPLANATION OF PART NUMBERS

		J			
Product Category	Fire Safety Listing	Compatible Cable Size	Jumper Length	Connector for End 1	Connector for End 2
= Jumper Cable	R = Riser Rating P = Plenum Rating	12 = ½ inch (12 mm)	1 = 1 meter 2 = 2 meters 3 = 3 meters	NM = N Male straight RM = N Right angle Male NF = N Female RF = N Right angle Female	NM = N Male straight RM = N Right angle Male NF = N Female RF = N Right angle Female



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DAS Plenum Jumper Cable

HFSC-12DP

1⁄2 (12)

1.38 (35)

< -158

1.08 over Cellular, PCS and 3G-band

PREMISES CABLE WIRELESS

SPECIFICATIONS Compatible Cable Type Compatible Cable Size in (mm) Minimum Bend Radius in (mm) Typical VSWR Intermodulation (PIM) dBc Standard Length

Part Number	End 1	End 2	ft (m)	Unit of Measure
Part Number	End I	End 2	ft (m)	Unit of Measure
JP121NMNM	N Male Straight	N Male Straight	3.2 (1)	Each
JP122NMNM	N Male Straight	N Male Straight	6.6 (2)	Each
JP123NMNM	N Male Straight	N Male Straight	9.8 (3)	Each
JP121NMNF	N Male Straight	N Female Straight	3.2 (1)	Each
JP122NMNF	N Male Straight	N Female Straight	6.6 (2)	Each
JP123NMNF	N Male Straight	N Female Straight	9.8 (3)	Each
JP121NFNF	N Female Straight	N Female Straight	3.2 (1)	Each
JP122NFNF	N Female Straight	N Female Straight	6.6 (2)	Each
JP123NFNF	N Female Straight	N Female Straight	9.8 (3)	Each
JP121NMRM	N Male Straight	N Male Right Angle	3.2 (1)	Each
JP122NMRM	N Male Straight	N Male Right Angle	6.6 (2)	Each
JP123NMRM	N Male Straight	N Male Right Angle	9.8 {3)	Each
JP121NMRF	N Male Straight	N Female Right Angle	3.2 (1)	Each
JP122NMRF	N Male Straight	N Female Right Angle	6.6 (2)	Each
JP123NMRF	N Male Straight	N Female Right Angle	9.8 (3)	Each
JP121NFRF	N Female Straight	N Female Right Angle	3.2 (1)	Each
JP122NFRF	N Female Straight	N Female Right Angle	6.6 (2)	Each
JP123NFRF	N Female Straight	N Female Right Angle	9.8 (3)	Each

Interface Type

EXPLANATION OF PART NUMBERS

Rev 7/15

Ed 13.0

PRODUCT DESCRIPTION

sustained longevity.

FEATURES/BENEFITS • High pull-off strength Excellent VSWR performance · Low and stable passive intermodulation

Weatherproof

Jumper cables offer outstanding electrical performance and reliability, high durability for tight routing, and superior environmental sealing for

Available in ½ inch diameters, jumper cables are used in areas that require an extremely small bending radius between main feeders and

antennas or between main feeders and RF equipment.

PART NUMBERS AND PHYSICAL CHARACTERISTICS

JR122NMNM

]			
Product Category	Fire Safety Listing	Compatible Cable Size	Jumper Length	Connector for End 1	Connector for End 2
J = Jumper Cable	R = Riser Rating P = Plenum Rating	12 = ½ inch (12 mm)	1 = 1 meter 2 = 2 meters 3 = 3 meters	NM = N Male straight RM = N Right angle Male NF = N Female RF = N Right angle Female	NM = N Male straight RM = N Right angle Male NF = N Female RF = N Right angle Female

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D-21

DIN Series for LHF



SPECIFICATIONS

Bodies, Cap (Coupling Nut) Material	Brass/silver plated or Su Co (Alloy of Cu/Sn/Zn) plated
Back Nut Material	Brass/nickel plated
Pin Material	Male: Brass/silver plated or Su Co (Alloy of Cu/Sn/Zn) plated Female: Beryllium - copper/silver plated or Su Co (Alloy of Cu/Sn/Zn) plated
Insulator Material	Plated PTFE (Teflon [®])
Gasket Material	Silicon rubber
Toflan is a vanistavad tradamark of E. I. du Dant de	Nomeurs and Company or its offiliates

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ELECTRICAL SPECIFICATIONS	
Impedance Ω	50
Maximum Frequency Range GHz	7.5
VSWR (Mating) straight (right angle)	1 GHz: 1.08 (1.12) 2 GHz: 1.10 (1.15)
Maximum Insertion Loss dB @ 3 GHz	-0.2
Intermodulation (PIM) dBc	< -155
Dielectric Withstanding Voltage kV rms @ 50 Hz	4.0
Working Voltage kV rms @ 50 Hz	2.7
Insulation Resistance $G\Omega$	10
Contact Resistance $m\Omega$	Inner: ≤ 1.5 Outer: ≤ 1.5

PRODUCT DESCRIPTION

This DIN Series is compatible with the LHF In-Building Series. The connectors are manufactured from an alloy material of copper, tin and zinc to produce a highly polished, precise, and strong connector. This alloy combination allows a better operating temperature range and improved environmental performance.

FEATURES/BENEFITS

- Two-piece design is the industry standard
- Simple, user-friendly installation process
- Connector can be disassembled and re-used
- Offers stable, low PIM connections

ENVIRONMENTAL SPECIFICATIONS	;
Temperature Range °F (°C)	-49 to +185 (-45 to +85)
Corrosion (Salt Spray Test)	IEC-68-2-11-Ka
Vibration	CECC 22000 Part 4.6.3
Waterproof	IP68

PART NUMBERS AND PHYSICAL CHARACTERISTICS

		Compatible	DIN Interface Type				
Part Number	Compatible Cable Type	Cable Size in (mm)	Gender	Straight or Angle	Length in (mm)	Diameter in (mm)	Weight oz (g)
CLH-12DF	LHF Riser	1⁄2 (12)	Female	Straight	2.65 (67.4)	0.86 (21.8)	5.3 (150)
CLH-12DM	LHF Riser	1⁄2 (12)	Male	Straight	2.57 (65.4)	0.86 (21.8)	6.5 (183)
CLH-12DMR	LHF Riser	1⁄2 (12)	Male	Right Angle	-	-	-
CLHP-12DF	LHF Plenum	1⁄2 (12)	Female	Straight	2.26 (57.4)	0.86 (21.8)	5.3 (150)
CLHP-12DM	LHF Plenum	1⁄2 (12)	Male	Straight	2.18 (55.4)	0.86 (21.8)	5.3 (150)
CLHP12DMR	LHF Plenum	1/2 (12)	Male	Right Angle	-	-	-



TECHNICAL GUIDELINE

Installation guidelines are available for these connectors. Refer to the "Resources" section on our site for the Technical Guideline, "DIN Connectors and N Connectors Installation Guidelines," for more information.



DIN Series for HFSC

PRODUCT DESCRIPTION

This DIN Series is compatible with the HFSC In-Building Series. The connectors are manufactured from an alloy material of copper, tin and zinc to produce a highly polished, precise, and strong connector. This alloy combination allows a better operating temperature range and improved environmental performance.

FEATURES/BENEFITS

- Two-piece design is the industry standard
- Simple, user-friendly installation process
- Ordinary tools needed; available in a common installers tool bag
- Connector can be disassembled and re-used
- Offers stable, low PIM connections



SPECIFICATIONS	
Bodies, Cap (Coupling Nut) Material	Brass/silver plated or Su Co (Alloy of Cu/Sn/Zn) plated
Back Nut Material	Brass/nickel plated
Pin Material	Male: Brass/silver plated or Su Co (Alloy of Cu/Sn/Zn) plated Female: Beryllium - copper/silver plated or Su Co (Alloy of Cu/Sn/Zn) plated
Insulator Material	Plated PTFE (Teflon®)
Gasket Material	Silicon rubber
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ELECTRICAL SPECIFICATIONS	
Impedance Ω	50
Maximum Frequency Range GHz	7.5
VSWR (Mating) straight (right angle)	1 GHz: 1.08 (1.12) 2 GHz: 1.10 (1.15)
Maximum Insertion Loss dB @ 3 GHz	-0.2
Intermodulation (PIM) dBc	< -155
Dielectric Withstanding Voltage kV rms @ 50 Hz	4.0
Working Voltage kV rms @ 50 Hz	2.7
Insulation Resistance $G\Omega$	10
Contact Resistance $m\Omega$	Inner: 0.4 Outer: 1.5

ENVIRONMENTAL SPECIFICATIONS Temperature Range °F (°C) -49 to +185 (-45 to +85) Corrosion (Salt Spray Test) IEC-68-2-11-Ka Vibration CECC 22000 Part 4.6.3 Waterproof IP68

PART NUMBERS AND PHYSICAL CHARACTERISTICS Compatible **DIN Interface Type** Compatible Cable Size Length Diameter Weight Part Number Cable Type in (mm) Gender Straight or Angle in (mm) in (mm) oz (g) CHFS-12DF HFSC Riser 1/2 (12) 2.65 (67.4) 0.86 (21.8) 5.3 (150) Female Straight CHFS-12DM HFSC Riser 1/2 (12) Male Straight 2.57 (65.4) 0.86 (21.8) 6.5 (183) CHFS12DMR HFSC Riser 1⁄2 (12) Male **Right Angle** CHFSP12DF HFSC Plenum 1/2 (12) 2.21 (56.2) 0.92 (23.4) 5.3 (150) Female Straight 2.25 (57.3) 0.92 (23.4) CHFSP12DM HFSC Plenum 1⁄2 (12) Male Straight 6.5 (183) CHFSP12DMR HFSC Plenum 1/2 (12) Male Right Angle



Rev 8/15

Ed 13.1

TECHNICAL GUIDELINE

Installation guidelines are available for these connectors. Refer to the "Resources" section on our site for the Technical Guideline, "DIN Connectors and N Connectors Installation Guidelines," for more information.





D-23

DIN Series for HFAC



SPECIFICATIONS

Bodies, Cap (Coupling Nut) Material	Brass/silver plated or Su Co (Alloy of Cu/Sn/Zn) plated
Back Nut Material	Brass/nickel plated
Pin Material	Male: Brass/silver plated or Su Co (Alloy of Cu/Sn/Zn) plated Female: Beryllium - copper/silver plated or Su Co (Alloy of Cu/Sn/Zn) plated
Insulator Material	Plated PTFE (Teflon®)
Gasket Material	Silicon rubber
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ELECTRICAL SPECIFICATIONS	
Impedance Ω	50
Maximum Frequency Range GHz	7.5
VSWR (Mating) straight (right angle)	1 GHz: 1.08 (1.12) 2 GHz: 1.10 (1.15)
Maximum Insertion Loss dB @ 3 GHz	-0.2
Intermodulation (PIM) dBc	< -155
Dielectric Withstanding Voltage kV rms @ 50 Hz	4.0
Working Voltage kV rms @ 50 Hz	2.7
Insulation Resistance $G\Omega$	10
Contact Resistance $m\Omega$	Inner: 0.4 Outer: 1.5

PRODUCT DESCRIPTION

This DIN Series is compatible with the HFAC In-Building Series. The connectors are manufactured from an alloy material of copper, tin and zinc to produce a highly polished, precise, and strong connector. This alloy combination allows a better operating temperature range and improved environmental performance.

FEATURES/BENEFITS

- Two-piece design is the industry standard
- Simple, user-friendly installation process
- Ordinary tools needed; available in a common installers tool bag
- Connector can be disassembled and re-used
- Offers stable, low PIM connections

ENVIRONMENTAL SPECIFICATIONS	
Temperature Range °F (°C)	-49 to +185 (-45 to +85)
Corrosion (Salt Spray Test)	IEC-68-2-11-Ka
Vibration	CECC 22000 Part 4.6.3
Waterproof	IP68

PART NUMBERS AND PHYSICAL CHARACTERISTICS

		Compatible	DIN Interface Type				
Part Number	Compatible Cable Type	Cable Size in (mm)	Gender	Straight or Angle	Length in (mm)	Diameter in (mm)	Weight oz (g)
CHFA-12DF	HFAC Riser	1⁄2 (12)	Female	Straight	2.65 (67.4)	0.86 (21.8)	5.3 (150)
CHFA-12DM	HFAC Riser	1⁄2 (12)	Male	Straight	2.57 (65.4)	0.86 (21.8)	6.5 (183)
CHFA12DMR	HFAC Riser	1⁄2 (12)	Male	Right Angle	-	-	-
CHFAP12DF	HFAC Plenum	1⁄2 (12)	Female	Straight	2.26 (57.4)	0.86 (21.8)	5.3 (150)
CHFAP12DM	HFAC Plenum	1⁄2 (12)	Male	Straight	2.18 (55.4)	0.86 (21.8)	5.3 (150)
CHFAP12DMR	HFAC Plenum	½ (12)	Male	Right Angle	-	-	-



TECHNICAL GUIDELINE

PERIOR

Installation guidelines are available for these connectors. Refer to the "Resources" section on our site for the Technical Guideline, "DIN Connectors and N Connectors Installation Guidelines," for more information.



HINFO INDEX

N Series for LHF

PRODUCT DESCRIPTION

This N Series connector is compatible with the LHF Series In-building Cable. The connectors are manufactured from an alloy material of copper, tin and zinc to produce a highly polished, strong connector. This alloy combination allows for a better operating temperature range and improved environmental performance.

FEATURES/BENEFITS

- Two-piece design is the industry standard
- Simple user friendly installation process
- Connector can be disassembled and re-used
- Offers stable, low PIM connections

ELECTRICAL SPECIFICATIONS

Impedance Ω	50
Maximum Frequency Range GHz	7.5
VSWR @ 700-2,200 MHz straight (right angle)	1.08 (1.15)
Maximum Insertion Loss dB @ 700-2,200 MHz straight (right angle)	0.1 (0.15)
Intermodulation (PIM) dBc	-155
Dielectric Withstanding Voltage kV rms @ 50 Hz	4.0
Working Voltage kV rms @ 50 Hz	2.7
Peak Power kW	10
Insulation Resistance $M\Omega$	≥ 5,000
Contact Resistance $m\Omega$	Inner: ≤ 1.0 Outer: ≤ 1.0

Temperature Range °F (°C)	-40 to +185 (-40 to +85)
Corrosion (Salt Spray Test)	IEC-68-2-11-Ka
Vibration	CECC 22000 Part 4.6.3
Waterproof	IP68

SPECIFICATIONS	
Bodies, Cap (Coupling Nut) Material	Brass/silver plated or Su Co (Alloy of Cu/Sn/Zn) plated
Back Nut Material	Brass/nickel plated
Pin Material	Male: Brass/silver plated or Su Co (Alloy of Cu/Sn/Zn) plated Female: Beryllium - copper/silver plated or Su Co (Alloy of Cu/Sn/Zn) plated
nsulator Material	Plated PTFE (Teflon®)
Gasket Material	Silicon rubber
Recommended Coupling Nut Torque Nm	0.68-1.13
Coupling Nut Retention Force Nm	1,000
Contact Captivation N	200
Mating Durability	500 times

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PART NUMBERS AND PHYSICAL CHARACTERISTICS

	Compatible Cable Type	Compatible Cable Size in (mm)	N Interface Type				
Part Number			Gender	Straight or Angle	Length in (mm)	Diameter in (mm)	Weight oz (g)
CLH-12NF	LHF Riser	1⁄2 (12)	Female	Straight	2.75 (69.8)	0.86 (21.8)	4.1 (115)
CLH-12NFR	LHF Riser	1⁄2 (12)	Female	Right Angle	-	-	-
CLH-12NM	LHF Riser	1⁄2 (12)	Male	Straight	2.75 (69.8)	0.86 (21.8)	4.2 (120)
CLH-12NMR	LHF Riser	1⁄2 (12)	Male	Right Angle	-	-	-
CLHP-12NF	LHF Plenum	1⁄2 (12)	Female	Straight	2.75 (69.8)	0.86 (21.8)	4.1 (115)
CLHP12NFR	LHF Plenum	1⁄2 (12)	Female	Right Angle	-	-	-
CLHP12NM	LHF Plenum	1⁄2 (12)	Male	Straight	2.75 (69.8)	0.86 (21.8)	4.2 (120)
CLHP12NMR	LHF Plenum	1⁄2 (12)	Male	Right Angle	-	-	-



Rev 7/15

Ed 13.0

TECHNICAL GUIDELINE

Installation guidelines are available for these connectors. Refer to the "Resources" section on our site for an instructional video or the Technical Guideline, "DIN Connectors and N Connectors Installation Guidelines," for more information.

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N Series for HFSC



PRODUCT DESCRIPTION

This N Series connector is compatible with the HFSC Series In-building Cable. The connectors are manufactured from an alloy material of copper, tin and zinc to produce a highly polished, strong connector. This alloy combination allows for a better operating temperature range and improved environmental performance.

FEATURES/BENEFITS

- Two-piece design is the industry standard
- . Simple user-friendly installation process
- Connector can be disassembled and re-used .
- Offers stable, low PIM connections .

ELECTRICAL SPECIFICATIONS

Impedance Ω	50
Maximum Frequency Range GHz	7.5
VSWR @ 700-2,200 MHz straight (right angle)	1.08 (1.10)
Maximum Insertion Loss dB @ @ 700-2,200 MHz straight (right angle)	0.1 (0.15)
Intermodulation (PIM) dBc	-155
Dielectric Withstanding Voltage kV rms @ 50 Hz	4.0
Working Voltage kV rms @ 50 Hz	2.7
Peak Power kW	10
Insulation Resistance $M\Omega$	≥ 5,000
Contact Resistance $m\Omega$	Inner: 1.0 Outer: 1.0

ENVIRONMENTAL SPECIFICATIONS					
Temperature Range °F (°C)	-40 to +185 (-40 to +85)				
Corrosion (Salt Spray Test)	IEC-68-2-11-Ka				
Vibration	CECC 22000 Part 4.6.3				
Waterproof	IP68				

SPECIFICATIONS Brass/silver plated or Su Co Bodies, Cap (Coupling Nut) Material (Alloy of Cu/Sn/Zn) plated Back Nut Material Brass/nickel plated Male: Brass/silver plated or Su Co (Alloy of Cu/Sn/Zn) plated Pin Material Female: Beryllium - copper/silver plated or Su Co (Alloy of Cu/Sn/Zn) plated Insulator Material Plated PTFE (Teflon®) Gasket Material Silicon rubber Recommended Coupling Nut Torque 25-30 Nm **Coupling Nut Retention Force** 1,000 Nm **Contact Captivation** 200 Ν Mating Durability 500 times

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PART NUMBERS AND PHYSICAL CHARACTERISTICS

		Compatible	N Inte	erface Type			
Part Number	Compatible Cable Type	Cable Size in (mm)	Gender	Straight or Angle	Length in (mm)	Diameter in (mm)	Weight oz (g)
CHFS-12NF	HFSC Riser	1⁄2 (12)	Female	Straight	2.75 (69.8)	0.86 (21.8)	4.1 (115)
CHFS12NFR	HFSC Riser	1⁄2 (12)	Female	Right Angle	-	-	-
CHFS-12NM	HFSC Riser	1⁄2 (12)	Male	Straight	2.75 (69.8)	0.86 (21.8)	4.2 (120)
CHFS12NMR	HFSC Riser	1⁄2 (12)	Male	Right Angle	-	-	-
CHFSP12NF	HFSC Plenum	1⁄2 (12)	Female	Straight	2.75 (69.8)	0.86 (21.8)	4.1 (115)
CHFSP12NFR	HFSC Plenum	1⁄2 (12)	Female	Right Angle	-	-	-
CHFSP12NM	HFSC Plenum	1⁄2 (12)	Male	Straight	2.75 (69.8)	0.86 (21.8)	4.2 (120)
CHFSP12NMR	HFSC Plenum	½ (12)	Male	Right Angle	-	-	-



TECHNICAL GUIDELINE

Installation guidelines are available for these connectors. Refer to the "Resources" section on our site for an instructional video or the Technical Guideline, "DIN Connectors and N Connectors Installation Guidelines," for more information.



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N Series for HFAC

PRODUCT DESCRIPTION

This N Series connector is compatible with the HFAC Series In-building Cable. The connectors are manufactured from an alloy material of copper, tin and zinc to produce a highly polished, strong connector. This alloy combination allows for a better operating temperature range and improved environmental performance.

FEATURES/BENEFITS

- Two-piece design is the industry standard
- Simple user-friendly installation process
- Connector can be disassembled and re-used
- Offers stable, low PIM connections

ELECTRICAL SPECIFICATIONS

Impedance Ω	50
Maximum Frequency Range GHz	7.5
VSWR @ 700-2,200 MHz straight (right angle)	1.08 (1.10)
Maximum Insertion Loss dB @ 700-2,200 MHz straight (right angle)	0.1 (0.15)
Intermodulation (PIM) dBc	-155
Dielectric Withstanding Voltage kV rms @ 50 Hz	4.0
Working Voltage kV rms @ 50 Hz	2.7
Peak Power kW	10
Insulation Resistance GΩ	≥ 5,000
Contact Resistance $m\Omega$	Inner: ≤ 1.0 Outer: ≤ 1.0

Temperature Range °F (°C)	-40 to +185 (-40 to +85)
Corrosion (Salt Spray Test)	IEC-68-2-11-Ka
Vibration	CECC 22000 Part 4.6.3
Waterproof	IP68

SPECIFICATIONS	
Bodies, Cap (Coupling Nut) Material	Brass/silver plated or Su Co (Alloy of Cu/Sn/Zn) plated
Back Nut Material	Brass/nickel plated
Pin Material	Male: Brass/silver plated or Su Co (Alloy of Cu/Sn/Zn) plated Female: Beryllium - copper/silver plated or Su Co (Alloy of Cu/Sn/Zn) plated
Insulator Material	Plated PTFE (Teflon®)
Gasket Material	Silicon rubber
Recommended Coupling Nut Torque Nm	0.68-1.13
Coupling Nut Retention Force Nm	1,000

Mating Durability Teflon is a registered trademark of E. I. du Pont de Nemours and Company or its affiliates.

200

500 times

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Compatible Cable Type	Compatible Cable Size in (mm)	N Inte	N Interface Type			
			Gender	Straight or Angle	Length in (mm)	Diameter in (mm)	Weight oz (g)
CHFA-12NF	HFAC Riser	1⁄2 (12)	Female	Straight	2.75 (69.8)	0.86 (21.8)	4.1 (115)
CHFA12NFR	HFAC Riser	1⁄2 (12)	Female	Right Angle	-	-	-
CHFA-12NM	HFAC Riser	1⁄2 (12)	Male	Straight	2.75 (69.8)	0.86 (21.8)	4.2 (120)
CHFA12NMR	HFAC Riser	1⁄2 (12)	Male	Right Angle	-	-	-
CHFAP12NF	HFAC Plenum	1⁄2 (12)	Female	Straight	2.75 (69.8)	0.86 (21.8)	4.1 (115)
CHFAP12NFR	HFAC Plenum	1⁄2 (12)	Female	Right Angle	-	-	-
CHFAP12NM	HFAC Plenum	1⁄2 (12)	Male	Straight	2.75 (69.8)	0.86 (21.8)	4.2 (120)
CHAP12NMR	HFAC Plenum	½ (12)	Male	Right Angle	-	-	-

Ν

Contact Captivation



TECHNICAL GUIDELINE

Installation guidelines are available for these connectors. Refer to the "Resources" section on our site for an instructional video or the Technical Guideline, "DIN Connectors and N Connectors Installation Guidelines," for more information.

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Cable Preparation Tools







PRODUCT DESCRIPTION

Connector termination is one of the most important factors affecting Radio Frequency (RF) transmission line operation. Cable cutting tools are offered in sizes ranging from $\frac{1}{2}$ to $1\frac{5}{8}$ inches (12 to 42 mm). These precision tools are designed to cut the jacket and outer conductor quickly and easily.

Cutting tools make accurate cuts in the cable at exact distance requirements for easy connector assembly. The automated cable cutting tools fit standard cordless 18V drills. Blade replacement kits are available to extend the useful life of the automated cutting tools.

The foam separator and flare tool removes foam dielectric from riser cable and flares the top of the outer conductor over top of riser and plenum connectors.

FEATURES/BENEFITS

- Accurate termination
- Easy handling

CUTTING TOOLS

Part Number	Tool Type	Capability	Compatible Cable Size in (mm)	Compatible Cable Type	Unit of Measure
L-CT-12D	Manual	Cuts jacket and outer conductor	1/2 (12)	LHF Feeder, HFAC Feeder	Each
L-CT-12DS	Manual	Cuts inner/outer jackets	1⁄2 (12)	HFSC Feeder	Each
L-CT-22D	Manual	Cuts jacket, inner/outer conductors and dielectric	7⁄8 (22)	LHF Feeder	Each
T-LHFA12DP	Automated	Cuts jacket, outer conductor and dielectric	1/2 (12)	LHF-12DP, HFAC-12DP	Each
T-HFSC12DP	Automated	Cuts jacket, outer conductor and dielectric	1⁄2 (12)	HFSC-12DP	Each
T-LHF12DR	Automated	Cuts jacket, outer conductor and dielectric	1/2 (12)	LHF-12DR	Each
T-HFAC12DR	Automated	Cuts jacket, outer conductor and dielectric	1⁄2 (12)	HFAC-12DR	Each
T-HFSC12DR	Automated	Cuts jacket, outer conductor and dielectric	1⁄2 (12)	HFSC-12DR	Each

FLARE TOOLS

Part Number	Description	Compatible Cable Size in (mm)	Compatible Cable Type	Unit of Measure
TF-LHFA12	Foam separator and flare tool	1⁄2 (12)	LHF-12DP, LHF-12DR, HFAC-12DP, HFAC-12DR	Each
TF-HFSC12	Foam separator and flare tool	1⁄2 (12)	HFSC-12DP, HFSC-12DR	Each
L-FT-42D	T-handle flare tool	15% (42)	LHF-42D, LHF-42DU, LHF-42DUF	Each

BLADE REPLACEMENT KITS				
Part Number	Description	Compatible Tools	Each Kit Includes	Unit of Measure
TBK-HFSC12	Blade replacement kit for HFSC automated tools	T-HFSC12DP, T-HFSC12DR	Three (3) replacement bladesThree (3) set screwsOne (1) Allen wrench	Kit
TBK-LHFA12	Blade replacement kit for LHF and HFAC automated tools	T-LHFA12DP, T-LHF12DR, T-HFAC12DR	Four (4) replacement bladesFour (4) set screwsOne (1) Allen wrench	Kit



ERIOR

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Cushion and Boot Assembly Kit

TECH INFO WIRELESS FTTP OSP CABLE PREMISES CABLE TABLE OF CONTENTS

PRODUCT DESCRIPTION

These innovative boot assembly kits feature a boot assembly and standard cushion insert in one convenient package. The unique boot assembly features a split, one-piece design that dramatically reduces installation time and difficulty. Boot assembly kits are designed to be fitted onto EP-series entry panels in wall/roof feed-thru applications.

APPLICATION

Rev 7/15 Ed 13.0

Entry solutions

FEATURES/BENEFITS

One-piece design simplifies installation



SPECIFICATIONS	
Size	Versions for coax
Design	Compression boot kit for aluminum entry panels
Mounts to	4 inch (102 mm) entry panels
Material	EPDM rubber
Each Kit Includes	 One (1), 4 inch (101.6 mm) pre-molded grooved boot One (1) cushion insert with appropriately sized hole(s) for corrugated coax or flexible coax One (1), #80 round member hose clamp One (1), #64 round member hose clamp One (1) installation instruction sheet
Not Included (Order Separately)	4 inch (102 mm) entry panel

RT NUMBERS AND PHYSICAL CHARACTERISTICS					
Part Number	Compatible Cable Size in (mm)	Compatible Cable Type	Number of Holes	Weight Ibs (kg)	Unit of Measure
LBA-12-1A	1⁄2 (12)	Corrugated Coax	1	1.6 (0.7)	Kit
LBA-12-2A	1⁄2 (12)	Corrugated Coax	2	1.6 (0.7)	Kit
LBA-12-3A	1⁄2 (12)	Corrugated Coax	3	1.6 (0.7)	Kit
LBA-12-4A	1⁄2 (12)	Corrugated Coax	4	1.6 (0.7)	Kit
LBA-12-5A	1⁄2 (12)	Corrugated Coax	5	1.6 (0.7)	Kit
LBA-22-1A	7⁄8 (22)	Corrugated Coax	1	1.6 (0.7)	Kit
LBA-22-2A	7/8 (22)	Corrugated Coax	2	1.6 (0.7)	Kit
LBA-22-3A	7⁄8 (22)	Corrugated Coax	3	1.6 (0.7)	Kit
LBA-22-4A	7⁄8 (22)	Corrugated Coax	4	1.6 (0.7)	Kit
LBA-33-1A	1¼ (33)	Corrugated Coax	1	1.6 (0.7)	Kit
LBA-42-1A	15% (42)	Corrugated Coax	1	1.6 (0.7)	Kit
LBA-57-1A	2¼ (57)	Corrugated Coax	1	1.6 (0.7)	Kit



Universal Weatherproofing Kit



SPECIFICATIONS	
Material	Butyl and vinyl tape
Each Kit Includes	 Five (5) rolls of butyl mastic tape 3.75 inches x 2 feet (95 mm x 0.6 m) Two (2) rolls of electrical tape 0.75 inch x 44 feet (19 mm x 13 m) One (1) roll of electrical tape 2 inch x 20 feet (51 mm x 6 m) One (1) installation instruction sheet

PRODUCT DESCRIPTION

Universal weatherproofing kits include mastic and electrical tapes to provide a multi-layer, long-term environmental seal over multiple connections.

APPLICATION

Coax protection

FEATURES/BENEFITS

- Multi-connection protection
- Tape kit for multi-layer wrap

	2 inch x 20 feet (51 mm x 6 m) • One (1) installation instruction sheet	
		_
PART NUMBERS AND PHYSICA	AL CHARACTERISTICS	
		Weight

Part Number	Weight Ibs (kg)	Unit of Measure
L-WK-U	3.4 (1.5)	Kit



PRODUCT DESCRIPTION

Hoisting grips provide an effective means for hoisting coax and elliptical waveguide into position. Grips can be used to provide additional support once in place. The lace-up design allows the hoisting grip to be attached even when the run has been connectorized, and it facilitates easy positioning at 200 feet (61 m) increments on long coax runs.

Pre-laced hoisting grips feature a closed-mesh design which simplifies installation over traditional split, lace-up style grips. The unique design allows the pre-laced hoisting grip to slip over an unterminated end of a coax cable. The grip securely tightens when pulled, providing an effective means to hoist coax into position, while providing additional support for the coax once in place.

Hoisting grip kits include a self-locking clip and sealing tape, giving additional support both during and after installation.

APPLICATION

Coax

Ed 13.0

Coax support

FEATURES/BENEFITS

- · Lace-up installation at any point on coax
- · Pre-laced to simplify installation
- Mesh grip with single eye support

SPECIFICATIONS	
Compatible Cable Type	Corrugated coax
Compatible Cable Size in (mm)	Fits $\frac{1}{2}$ (12) to 15% (42) corrugated coax
Material	Tinned bronze
Each Includes	 One (1) mesh grip One (1) self-locking clip Installation instructions

T NUMBERS AND PHYSI	CAL CHARACTERISTICS			
Part Number	Hoisting Grip Model	Compatible Cable Size in (mm)	Weight Ibs (kg)	Unit of Measure
L-HG-12	Lace-Up	1/2 (12)	0.3 (0.1)	Each
L-HG-22	Lace-Up	⅓ (22)	0.6 (0.3)	Each
L-HG-33	Lace-Up	1¼ (33)	0.6 (0.3)	Each
L-HG-42	Lace-Up	15/8 (42)	1.3 (0.6)	Each
L-HG-12L	Pre-Laced	1/2 (12)	0.4 (0.2)	Each
L-HG-22L	Pre-Laced	% (22)	0.5 (0.2)	Each
L-HG-33L	Pre-Laced	1¼ (33)	0.5 (0.2)	Each
L-HG-42L	Pre-Laced	15% (42)	0.5 (0.2)	Each



Clip-On Grounding Kit



SPECIFICATIONS Compatible Cable Type Corrugated coax Compatible Cable Size Fits ½ (12) to 1% (42) in (mm) Mounts to Coax outer conductor Material Copper strap • One (1) 6 AWG, 7-strand copper ground lead measuring 4.92 feet (1.5 m) long • One (1) roll of electrical tape 2 inch x 20 feet (51 mm x 6 m) Each Kit Includes • One (1) roll of butyl mastic tape 3.75 inch x 2 feet (95 mm x 0.6 m)

 Necessary hardware for ground bar attachment • One (1) 2-hole universal lug compatible with

¹/₂ inch (12 mm) coax

PRODUCT DESCRIPTION

Clip-on ground kits, as part of an advanced coax grounding solution, provide easy installation coupled with dependable protection of your coaxial cable system. The unique clip design and pre-formed strap allows the clip-on ground kits to slip easily over the outer conductor of the coax and firmly latch into place. The latch mechanism has been optimized to provide a secure fit, maximizing performance by ensuring proper contact surface area and pressure. The innovative design of the clip-on ground kits greatly simplifies installation, and minimizes installation time over traditional coiled and bolt-on grounding kits. This design also eliminates the danger of over tightening, which reduces the chance of costly errors in the field. The clip-on ground kits comply with MIL-STD-188-124A, protecting coax from the damaging effects of lightning current in excess of 200 kA. Each kit includes a 6 AWG 7-strand copper ground lead. All bus bar attachment hardware is included along with required mastic and electric tape for weatherproofing each kit.

APPLICATION

Coax protection

FEATURES/BENEFITS

- Easy-to-install clip design
- One-piece style with three lead/lug options

PART NUMBERS AND PHYSICAL CHARACTERISTICS			
Part Number	Compatible Cable Size in (mm)	Weight Ibs (kg)	Unit of Measure
L-GK-C12	1⁄2 (12)	1.4 (0.6)	Kit
L-GK-C22	7⁄8 (22)	1.4 (0.6)	Kit
L-GK-C33	1¼ (33)	1.4 (0.6)	Kit
L-GK-C42	15/8 (42)	1.5 (0.7)	Kit

*Note: 0.375 inch (10 mm) two-hole lugs are universal to accommodate 0.75 inch to 1 inch (19 mm to 25 mm) spacing requirements. Versions of these kits are available with 0.25 inch (6 mm) two-hole lugs or with your choice of lug pre-attached.



Universal Snap-in Hanger Kit

WIRELESS

PRODUCT DESCRIPTION

The next-generation Universal Snap-in Hangers incorporate numerous innovative design features that ensure secure, dependable support and simplified installation for your coaxial cable system. The unique internal coax fingers securely grip the coax, yet float freely within the hanger to ensure flexibility during installation. The tension and thickness of steel has been optimized to minimize stiffness and allow easy insertion into a ³/₄ inch (19 mm) mounting hole. The advanced snap-in fingers are specifically designed to eliminate inadvert pop-out. The unique curved finger-tips provide a powerful barrier to pop-out and offer additional security when faced with excessive galvanizing or rounded edges. The Universal Snap-in Hangers internal ribbing and dog-eared internal fingers provide a firm grip to resist coax slippage. The stainless steel construction guarantees exceptional integrity in highly corrosive environments and extreme weather conditions.

APPLICATION

Coax support

Ed 13.0

FEATURES	BENEFITS
One-piece hanger solution	Simplified coax installation

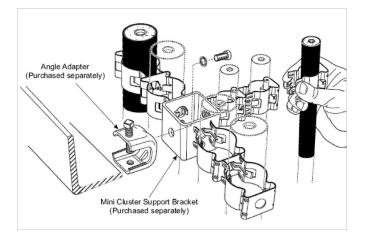


SPECIFICATIONS	
Compatible Cable Type	Corrugated coax
Compatible Cable Size in (mm)	½ (12) to 2¼ (58)
Mounts to in (mm)	³ / ₄ (19) holes
Material	Stainless steel
Each Kit Includes	 10 appropriately sized snap-in hangers One (1) installation instruction sheet
Not Included (Order Separately)	Brackets

PART NUMBERS AND PHYSICAL CHARACTERISTICS Compatible Cable Size Weight Part Number lbs (kg) Unit of Measure in (mm) L-SH-U12 1/2 (12) 0.7 (0.3) Kit L-SH-U22 7/8 (22) 1.2 (0.5) Kit L-SH-U33 1¼ (33) 1.3 (0.6) Kit L-SH-U42 1% (42) 1.5 (0.7) Kit



Stackable Snap-in Hanger Kit



SPECIFICATIONS	
Compatible Cable Type	Corrugated coax
Compatible Cable Size in (mm)	3% (9.5) to 15% (42)
Material	Stainless steel
Each Kit Includes	 10 appropriately sized stackable snap-in hangers One (1) installation instruction sheet
Not Included (Order Separately)	Brackets

PRODUCT DESCRIPTION

The self contained design of the Stackable Snap-in Hanger eliminates the need for mounting hardware, while also providing a compact solution for supporting coaxial cable. The hanger can be stacked up to three runs high when using 3%", 3%" coaxial cable, or two runs high when using 14%" and 1%" coaxial cable.

Each hanger accommodates one run of coaxial cable. The advanced design of the retention tabs gives the hanger the ability to absorb vibration, making the hanger resistant to pop-out. This unique design also reduces movement in the runs of coaxial cable, therefore reducing stress on the connections. Manufactured from stainless steel, this product ensures long term integrity in extreme environments including mountain tops, coastal and industrial applications.

APPLICATION

Coax support

FEATURES

BENEFITS

- One-piece hanger solution
- Eliminates the need for mounting hardware for a simplified coax installation

PART NUMBERS AND PHYSICAL CHARACTERISTICS **Compatible Cable Size** Weight Part Number Stack Height lbs (kg) Unit of Measure in (mm) SSHAK3812* 3⁄8 (9.5) 3 Runs 3.1 (1.4) Kit L-SH-S12 1⁄2 (12) 3 Runs 0.7 (0.3) Kit L-SH-S22 7/8 (22) 3 Runs 1.2 (0.5) Kit L-SH-S33 1¼ (33) 2 Runs 1.3 (0.6) Kit Kit L-SH-S42 1% (42) 2 Runs 1.5 (0.7)

*Includes grommet.



Standard Hanger Kit

PRODUCT DESCRIPTION

The Standard Hangers provide a dependable solution for supporting single runs of coaxial cable in wireless systems. The pre-formed design greatly simplifies installation, allowing the coax to be quickly slipped into the Standard Hanger and then secured using the included captivated bolt. Corrosion-resistant stainless steel construction ensures long term integrity in extreme weather applications. Integrated cable grippers bite into the coax jacketing, to provide additional support in heavy wind and ice-loading conditions.

BENEFITS

APPLICATION

Coax support

FEATURES

Rev 7/15

Ed 13.0

- Pre-formed bolt-on single
 run hanger
- Reduces installation time

P

SPECIFICATIONS	
Compatible Cable Type	Corrugated coax
Compatible Cable Size in (mm)	Fits ½ (12) to 1% (42)
Mounts to in (mm)	¾ (9.5) hardware
Material	Stainless steel
Each Kit Includes	 10 appropriately sized stainless steel hangers without hardware 10 captive ¼ inch (6.4 mm) slotted hex head bolts One (1) installation instruction sheet
Not Included (Order Separately)	Brackets

PART NUMBERS AND PHYSICAL CHARACTERISTICS			
Part Number	Compatible Cable Size in (mm)	Weight Ibs (kg)	Unit of Measure
LBHS12NH	1⁄2 (12)	0.8 (0.4)	Kit
LBHS22NH	7⁄8 (22)	1.1 (0.5)	Kit
LBHS33NH	1¼ (33)	1.3 (0.6)	Kit
LBHS42NH	15% (42)	1.8 (0.8)	Kit

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$\lambda/4$ Wave Surge Arrestor



SPECIFICATIONS	
Outer Conductor Material	Brass/silver or Su Co plated
Inner Conductor Material	Be Cu (Female)/silver or Su Co plated
Other Metal Parts Materials	Brass/nickel plated
Temperature Range °C	-40 to +100
Moisture Resistance	Waterproof
Frequency Band MHz	700-2,700

ELECTRICAL SPECIFICATIONS	
Impedance (Nominal) Ω	50
VSWR	< 1.1
Insertion Loss dB	< 0.1
Intermodulation (PIM) dBc	-155
Max. Impulse Spark-Over Voltage	> 600

PART NUMBERS AND PHYSICAL CHARACTERISTICS

Part Number	Surge Arrestor Model	Frequency Band MHz	Interface Type	Unit of Measure
ATNMNF700	λ/4 wave	700-2,700	N Male/N Female	Each
ATDMDF700	$\lambda/4$ wave	700-2,700	DIN Male/DIN Female	Each
AT-NMNF-W	$\lambda/4$ wave	800-2,700	N Male/N Female	Each
AT-DMDF-W	$\lambda/4$ wave	800-2,700	DIN Male/DIN Female	Each

PRODUCT DESCRIPTION

Surge arrestors provide excellent lightning protection and outstanding RF performance. All designs have low return loss, low insertion loss and low intermodulation.

FEATURES/BENEFITS

- Outstanding RF performance
- Completely weatherproof
- Available with Type N or DIN interface
- Maintenance-free operation ($\lambda/4$ wave shorting stubs)

WIRELESS

ELECTRICAL SPECIFICA
Impedance (Nominal) Ω
VSWR
Insertion Loss dB

D-36	
------	--

Gas Tube Surge Arrestor

PRODUCT DESCRIPTION

A surge arrestor is a gas discharge tube type for lightning strike protection, used most widely with $\lambda/4$ stub type systems. The surge arrestor allows for replaceable gas discharge tubes between the internal and outer conductor. When activated, this unit discharges electron pulse energy instantaneously.

FEATURES/BENEFITS

- Outstanding Broadband RF performance (up to 2,700 MHz)
- DC pass capability
- High tensional internal conductor structure
- Waterproof

Rev 7/15 Ed 13.0

• Available with 0.4375 in (11.1 mm) DIN type



SPECIFICATIONS	
Outer Conductor Material	Brass / Silver or Su Co Plated
Inner Conductor Material	Be Cu (Female) / Silver or Su Co Plated
Other Metal Parts Materials	Brass / Nickel Plated
Temperature Range °C	-40 to +100
Moisture Resistance	Waterproof
Maximum Frequency Range MHz	2,700

ELECTRICAL SPECIFICATIONS	
Impedance (Nominal) Ω	50
VSWR	< 1.1
Insertion Loss dB	< 0.1
Max. Impulse Spark-Over Voltage	> 600

PART NUMBERS AND PHYSICAL CH.	ARACTERISTICS		
Part Number	Surge Arrestor Model	Interface Type	Unit of Measure
AGDMDF02	Gas Tube	DIN Male/DIN Female	Each
AG-NFNF	Gas Tube	N Female/N Female	Each



Round Adapter Kit



PRODUCT DESCRIPTION

The Round Adapter Kit provides an easy method for supporting transmission lines to small diameter pipes or poles. The round adapter kit contains ten adjustable hose clamps.

APPLICATION

Coax hanger support

Ē	at
OSP CABLE	
FTTP	SPECIFICATIONS
	Compatible Pipe/Pole Diameter in (mm)
¥IR	Material
WIRELESS	Each Kit Includes
	Not Included (Order Separately)
TECH INFO	
INFO	PART NUMBERS AND PHYSIC
Ŭ	Daut Number
Z	Part Number
R	RM-A100
\times	D14 4000

TABLE OF CONTENTS

PART NUMBERS AND PHYSICAL CHARACTERISTICS				
Part Number	Adjustable Diameter in (mm)	Height in (mm)	Weight Ibs (kg)	Unit of Measure
RM-A100	1 to 2 (25.4 to 50.8)	0.5 (12.7)	0.8 (0.4)	Kit
RM-A300	3 to 4 (76.2 to 101.6)	0.5 (12.7)	1.2 (0.5)	Kit

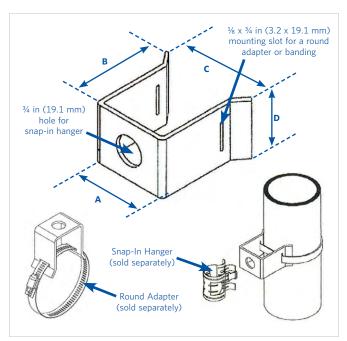
Stand-Off Adapter Kit

PRODUCT DESCRIPTION

Stand-Off Adapter Kits enable hangers to be mounted to 1.5 inch (31.8 mm) or larger round adapters. The stand-off adapter is available in stainless steel to provide excellent corrosion resistance and ensure long term integrity in extreme weather applications.

APPLICATION

Coax hanger support



SPECIFICATIONS	
Size in (mm)	A = 1.75 (44.5) B = 2.25 (57.2) C = 2.375 (60.3) D = 1.50 (38.1)
Mounts to	Round adapters 1.5 to 4.5 inch (38.1 to 114.3 mm)
Material	Stainless steel
Each Kit Includes	10 stand-off adaptersOne (1) installation instruction sheet
Not Included (Order Separately)	Round Adapter Kit Snap-In Hanger Kit

PART NUMBERS AND PHYSICAL CHARACTERIST	rics	
Part Number	Compatible Round Adapter Size in (mm)	Unit of Measure
SA-SS200	1.5 to 3.5 (38.1 to 88.9)	Kit
SA-SS300	2 to 4.5 (50.8 to 114.3)	Kit



Three-Way Stand-Off Adapter Kit



PRODUCT DESCRIPTION

The Three-Way Stand-Off Adapter Kit enables hangers to be mounted to round adapters. Each adapter accommodates up to three (3) snapin hangers for supporting coaxial cable runs. The three-way stand-off adapter is available in stainless steel to provide excellent corrosion resistance and ensure long term integrity in extreme weather applications.

APPLICATION

Coax hanger support

SPECIFICATIONS	
Mounts to	Round adapters
Material	Stainless steel
Each Kit Includes	10 three-way stand-off adaptersOne (1) installation instruction sheet
Not Included (Order Separately)	Round Adapter Kit Snap-In Hanger Kit

RT NUMBERS AND PHYSICAL CHA	RACTERISTICS		
Part Number	Outside Length in (mm)	Outside Width in (mm)	Unit of Measure
L-SA-38	7.6 (19.3)	3.8 (98.0)	Kit

Angle Adapter Kit



SPECIFICATIONS

Compatible Solid Angle Member Thickness in (mm)	Fits up to % inch (22.2 mm)
Material	Stainless steel
Each Kit Includes	 10 stainless steel angle adapters 10 captive ¾ inch (9.5 mm) set bolts One (1) installation instruction sheet
Not Included (Order Separately)	Hanger Kits

PRODUCT DESCRIPTION

The Angle Adapter Kit allows the installer to easily secure hangers to solid angle members or in areas where mounting holes are not easily accessible. The stainless steel bolt locks the angle adapter to standard tower members or to mounting surfaces less than $\frac{7}{8}$ inch (22.2 mm) thick. The toothed jaw effectively secures large volumes of coax in heavy wind and ice-loading conditions.

Three (3), $\frac{3}{6}$ inch (9.5 mm) tapped holes enable the angle adapter to accommodate hanger types which utilize $\frac{3}{6}$ inch (9.5 mm) mounting hardware. Angle adapter kits include 10 angle adapters and 10 set bolts.

APPLICATION

Coax hanger support

PART NUMBERS AND PHYSICAL CHARACTERISTICS		
Part Number	Unit of Measure	
AA-SL	Kit	



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Ground Bus Bar Kit

PRODUCT DESCRIPTION

The Ground Bus Bar Kit provides a single, versatile solution to create a central ground point at your site. The ground bus bars are manufactured from ¼ inch (6.3 mm) thick solid, tinned copper, and they incorporate 26 pairs of 7/16 inch (11.1 mm) holes and 26 pairs of ¼ inch (6.4 mm) holes. By slotting one hole in each pair of 7/16 inch holes, the ground bus bar accommodates any lug hole spacing from ¾ inch (19.1 mm) to 1 inch (25.4 mm). Six (6) pairs of 7/16 inch holes are incorporated for lug connections to the ground system.

APPLICATION

Coax protection



SPECIFICATIONS	
Material	Bus bar: solid, tinned copper Mounting hardware: stainless steel Mounting brackets: galvanized steel
Each Kit Includes	 One (1) universal ground bar ¼ inch x 24 inch (6.4 mm x 0.6 m) One (1) mounting hardware set One (1) mounting bracket set One (1) installation instruction sheet

PART NUMBERS AND PHYSICAL CHARACTERISTICS					
Part Number	Thickness in (mm)	Height in (mm)	Width in (mm)	Weight Ibs (kg)	Unit of Measure
GB0424TU	0.25 (6.3)	4 (102)	24 (610)	8 (3.6)	Kit

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Weather Proofing Shell



SPECIFICATIONS	
Material	Long glass PP and silicon rubber
Temperature Range °F (°C)	-40 to +140 (-40 to +60)
Standards Compliance	UV Resistant UL® and CL IP 68 IEC60529 ANSI C91191 RoHS-compliant

UL is a registered trademark of UL LLC.

PART NUMBERS AND PHYSICAL CHARACT	ERISTICS	
Part Number	Connector Joint Compatibility	Unit of Measure
WPSANT12D	Antenna to ½ inch (12 mm) DIN Connector	Each
WPS12158D	½ inch (12 mm) to 1% inch (42 mm) DIN Connector	Each

PRODUCT DESCRIPTION

The Weather Proofing Shell seals and protects connector joints from the environment. The shell also provides easy and fast installation of weather proofing on connector joints. The weather proofing shell is reusable.

APPLICATION

Coax/connector protection

TECH INFO IN

UL is a registered i



Anti-Theft Hardware Kit

PRODUCT DESCRIPTION

The Anti-Theft Hardware Kit is used to prevent removal of parts easily when bolted. The kit includes four (4) anti-theft bolts and a star head allen key.

APPLICATION

Rev 7/15 Ed 13.0

Coax protection



SPECIFICATIONS				
Bolt Material	Stainless steel			
Each Kit Includes	 Four (4) anti-theft bolts measuring ¾ inch x 1 inch (19.1 mm x 25.4 mm) One (1) star head allen key One (1) installation instruction sheet 			
Linit of Moscure				

PART NUMBERS AND PHYSICAL CHARACTERISTICS					
Part Number	Unit of Measure				
WATS-38	Kit				





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Superior Essex uses the U.S. customary system of weights and measures as well as the metric equivalents. If you need help calculating these figures, please consult the conversion charts below.

INTO METRIC	CONVERSIONS			
	If You Know	Multiply By	To Get	
	milli-inch (mil)	25.40	microns (µm)	
	inches (in)	25.40	millimeters (mm)	
I a sa anti-	inches (in)	2.54	centimeters (cm)	
Length	feet (ft)	304.8	meters (m)	
	yards (yd)	0.91	meters (m)	
	miles (mi)	1.61	kilometers (km)	
	sq. inches (in²)	6.45	sq. centimeters (cm²)	
	sq. feet (ft ²)	0.09	sq. meters (m ²)	
Area	sq. yards (yd²)	0.84	sq. meters (m ²)	
	sq. miles (mi²)	2.59	sq. kilometers (km²)	
	acres	0.40	hectares (ha)	
	ounces (oz)	28.35	grams (g)	
Mass (Weight)	pounds (lbs)	0.45	kilograms (kg)	
(Weight)	short tons	0.91	tons (t)	
Temperature	Fahrenheit (°F)	Subtract 32, then multiply by 0.56	Celsius (°C)	
Mass per Length	pounds per 1,000 feet (lbs/kft)	1.49	kilograms per kilometers (kg/km)	
	pounds force (lbf)	4.45	newtons (N)	
	foot-pounds (ft-lbs)	1.36	newtons-meters (N-m)	
Force	pounds force per inches (lbf/in)	1.75	newtons per centimeters (N/cm)	
	pounds per sq. inches (PSI)	6.89	kiloPascals (kPa)	

OUT OF METRIC CONVERSIONS							
	If You Know	Multiply By	To Get				
	microns (µm)	0.04	milli-inch (mil)				
	millimeters (mm)	0.04	inches (in)				
	centimeters (cm)	0.39	inches (in)				
Length	meters (m)	3.28	feet (ft)				
	meters (m)	1.09	yards (yd)				
	kilometers (km)	3,280.84	feet (ft)				
	kilometers (km)	0.62	miles (mi)				
	sq. centimeters (cm²)	0.16	sq. inches (in²)				
Area	sq. meters (m ²)	1.20	sq. yards (yd²)				
	sq. kilometers (km²)	0.39	sq. miles (mi ²)				
	hectares (ha)	2.47	acres				
	grams (g)	0.04	ounces (oz)				
Weight	kilograms (kg)	2.20	pounds (lbs)				
	tons (t)	1.10	short tons				
Temperature	Celsius (°C)	Multiply by 1.80, then add 32	Fahrenheit (°F)				
Weight per Unit Length	kilograms per kilometers (kg/km)	0.67	pounds per 1,000 feet (lbs/kft)				
	newtons (N)	0.22	pounds force (lbf)				
	newtons-meters (N-m)	0.74	foot-pounds (ft-lbs)				
Force	newtons per centimeters (N/cm)	0.57	pounds force per inches (lbf/in)				
	kilo Pascals (kPa)	0.15	pounds per sq. inches (PSI)				

American Wire Gauge Sizes

The table below shows various data for copper and aluminum stranded conductors.

AMERICAN WIRE GAUGE (AWG) SIZES

AWG/		Dian	neter	Coppe Resistance			um DC e @ 20°C
kcmil	Stranding ²	in	mm	(Ω/kft)	(Ω/km)	(Ω/kft)	(Ω/km)
1,000	61	1.117	28.372	0.0106	0.0348	0.0173	0.0568
750	61	0.968	24.587	0.0141	0.0462	0.0231	0.0758
600	61	0.866	21.996	0.0177	0.0581	0.0289	0.0948
500	37	0.789	20.041	0.0212	0.0695	0.0035	0.1140
400	37	0.706	17.932	0.0264	0.0866	0.0434	0.1420
350	37	0.661	16.789	0.0302	0.0991	0.0495	0.1620
300	37	0.611	15.519	0.0353	0.1160	0.0578	0.1870
250	19	0.558	14.173	0.0423	0.1390	0.0694	0.2280
0000 (4/0)	19	0.512	13.005	0.0500	0.1640	0.0820	0.2690
000 (3/0)	19	0.456	11.582	0.0630	0.2070	0.1030	0.3380
00 (2/0)	19	0.405	10.287	0.7950	0.2610	0.1300	0.4270
0 (1/0)	19	0.362	9.195	0.1000	0.3280	0.1640	0.5380
1	7	0.322	8.179	0.1270	0.5220	0.2070	0.6790
2	7	0.283	7.188	0.1590	0.6590	0.2610	0.8560
4	7	0.225	5.715	0.2530	1.0500	0.4160	1.3600
6	19	0.178	4.521	0.4030	1.3200	0.6610	2.1700
81	7	0.142	3.607	0.6400	2.1000	1.0500	3.4400
10	7	0.126	3.200	1.0200	3.3500	1.6700	5.4800
12	7	0.113	2.870	1.6300	5.3500	2.6700	8.7600
14	7	0.071	1.803	2.5800	8.4600	4.2200	13.8000
16	7	0.0576	1.463	4.1000	13.4000	6.7100	22.0000
18	7	0.0456	1.158	6.5400	21.4000	10.7000	35.1000
20	7	0.0363	0.922	10.3000	33.8000	16.9000	55.4000
22	7	0.0288	0.732	16.4000	53.8000	-	-
24	-	0.0228	0.579	26.1000	85.6000	-	-
25	-	0.0179	0.455	106.2000	32.3700	-	-
26	-	0.0159	0.405	133.9000	40.8100	-	-
27	-	0.0142	0.361	168.9000	51.4700	-	-
28		0.0126	0.321	212.9000	64.9000	-	-

8AWG, Combination Unilay-Stranded, Per ASTM B787

²24AWG through 1000kcmil, Reverse Concentric Compressed Class B, ASTM B8



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SINGLE MODE OPTICAL FIBER

Single mode fiber (SMF) is used primarily for intermediate and long distance Outside Plant (OSP) applications that have distances between connections of up to 80 km (50 mi). It is the exceptional information carrying capacity and low-loss properties of this fiber that make it ideal for these demanding applications.

The core, or light-carrying region of the fiber, is approximately $8.3 \ \mu m$ in diameter. This narrows the transmission pathway allowing for only a single path, or mode, for each pulse of light traveling down the core of the fiber. The light transmission technology is laser-based for all single mode communications applications. By combining the extremely high bandwidth properties of SMF with high precision laser-based transceivers, equipment and network systems designers can create networks capable of sending simultaneous voice and data transmission well beyond 10 Gbps over many miles.

Superior Essex offers many types of single mode optical fibers for communications applications. Based on the application, Superior Essex can recommend the following SMF types.

Standard SMF offered by Superior Essex is an excellent choice for patch cords, local area network (LAN), wide area network (WAN) and metropolitan area networks (MAN). This fiber has operating wavelengths centered at 1310 nm and 1550 nm. Refer to the table on page X-4 for performance information.

Reduced Water Peak (RWP) SMF, which has been designed to have low attenuation at 1383 nm, is becoming the most commonly recommended optical fiber for all types of network applications. Standard optical fiber displays an attenuation increase at or about 1383 nm. This wavelength is known as the water-peak region and is where light is strongly absorbed by naturally occurring water-like end groups in the glass, causing high attenuation or signal loss. Specifically, hydroxyl end groups, which make up half of a water molecule, are always present at some level within the glass core and cause increased attenuation over this wavelength region. Superior Essex RWP SMF reduces this effect and allows all the wavelengths between 1300 nm and 1550 nm to be usable. This optical fiber is therefore, not only an excellent choice for traditional applications, but also for more advanced systems such as coarse wavelength division multiplexing (CWDM) and dense wavelength division multiplexing (DWDM) technologies. RWP SMF is the standard single mode optical fiber for all Superior Essex premises cables. Refer to the table on page X-4 for performance information.

Zero Water Peak SMF offers further reductions to the attenuation at 1383 nm. Attenuation improvement at 1383 nm is usually 0.03 to 0.04 dB per km. Refer to the table on page X-4 for performance information.

Non-Zero Dispersion Shifted (NZDS) fiber is used for very high data rates over very long distances (> 30 km). Because of core/cladding modifications, this fiber is more expensive than standard SMF. The advantage of NZDS is that it allows for longer distances between repeaters and therefore lowers the overall system cost for long distance networks. Refer to the table on page X-4 for performance information.

TeraFlex® bend resistant optical fiber is a SMF that complies with ITU-T G.652.D and G.657.A. The bend sensitivity of this optical fiber has been improved so that it can be coiled into a 20 mm diameter loop with \leq 0.5 dB incurred loss at 1625 nm and \leq 0.2 dB incurred loss at 1550 nm - five times better bending performance than leading RWP optical fibers. TeraFlex offers excellent Polarized Mode Dispersion (PMD) of \leq 0.1 ps/vkm per individual fiber. TeraFlex is an ideal choice for FTTP applications where small enclosures are normal and space is at a premium.

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MULTIMODE OPTICAL FIBER

Multimode fiber (MMF) is identified by the physical size of the core as measured in microns (µm) and the applications for which it is typically used. MMF, the most common types having 62.5/125 μm and 50/125 μm core/ cladding dimensions, are used for data communications links with the local area network (LAN). The term "multimode" refers to the way the light travels down the optical fiber. For each pulse of light launched into the optical fiber by light source (transceiver), the light signal energy travels within the optical fiber core along multiple paths, or modes. These modes travel at different speeds, resulting in the pulse of light spreading out. This effect limits the bandwidth and distances that can be supported by MMF. For this reason, MMF is used in short distance LAN applications usually less than 2 km (6,560 ft) between connections. Typical network applications include building-to-building and communications closet-to-closet backbones, intelligent highway systems and fiber-to-the-desk. MMF is the choice for these short distance applications cables because of the large core size, which allows for inexpensive connectivity, greater durability and the use of low-cost light sources.

Typically, a light emitting diode (LED), operating at a nominal wavelength of 850 nm, is used as the light source for MMF cable applications. The use of LED-based transceivers, MMF cables and inexpensive MMF connector systems have provided network designers with a relatively low-cost, high-bandwidth technology for campus-like networks. Recent technology breakthroughs in optical fiber transceiver technology have led to a new light source that extends the distance and increases the signal carrying capacity of MMF. This next-generation light source uses a vertical cavity surface emitting laser, or VCSEL (pronounced "vicsel").

The use of VCSEL transceivers, when compared to traditional LEDbased transmission systems, allows for greater distances for traditional applications such as 100 Mbps and for higher bandwidth applications such as 1 Gigabit Ethernet (1 GbE) and 10 Gigabit Ethernet (10 GbE). The VCSEL source transmits light through the center region of the optical fiber core. This has created the requirement for laser-optimized MMF. One of the most popular emerging applications for VCSEL-based LAN application is 10 GbE. By using laser-optimized optical fibers, network engineers can improve transmission performance over greater distances.

TeraGain® optical fibers are available in 62.5/125 μm and 50/125 μm fiber types. These optical fibers have been designed to provide greater data rate and distance support compared to other manufacturers' optical fiber cables. In particular, the bandwidths of TeraGain optical fibers are greater than the standard MMF offered by other manufacturers and exceed the requirements specified in TIA-568. TeraGain optical fibers can be used with either LED or laser (VCSEL) transmission equipment. Refer to the table on page X-5 for specific performance information.

TeraGain 10G 50/125 multimode fibers are specifically optimized for 850 nm lasers (or VCSELs) that are the heart of the new 10 GbE systems specified in TIA-568. These optical fibers exceed industry specifications for both bandwidth and for differential modal dispersion. TeraGain 10G optical fibers support 10 GbE applications in three ranges: 150, 300 and 550 meters. These ranges allow engineers to cost effectively design the right optical fiber for their application requirements. Superior Essex offers TeraGain 10G/150 as its standard 50 μ m MMF in all its premises optical fiber cables. Refer to the table on page X-5 for specific performance information.

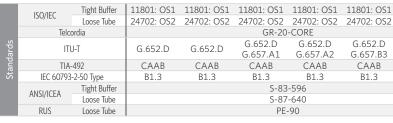
Like the TeraGain 10G 50/125 multimode fibers, TeraFlex 10G multimode fibers are specifically optimized for 850 nm lasers (or VCSELs) but with the added benefit of Macrobend Resistance. These optical fibers exceed industry specifications for not only bandwidth and differential modal dispersion, but for minimum bend radii allowing use where tight bend radii are encountered. This is especially important for applications, like 40 GbE and 100 GbE, where channel margins are tight. TeraFlex 10G optical fibers support 10 GbE applications in three ranges: 150 (OM2+), 300 (OM3) and 550 (OM4) meters. Refer to the table on page X-5 for specific performance information.



Optical Fiber Specifications

Single Mode

				Single Mod	le Fiber Types	Reduced Water Peak	Zero Water Peak	TeraF G.657.A1	lex® Bend Res G.657.A2	sistant G.657.B3	NZDS
				-	per Designator	3	2	K	J	L	8
			16-D	igit Part Numł	per Designator	10	17	13	14	15	19
	Parameter	Test Method (Standard	Units	W/avalanath	Cable Tune						
	Farameter	Test Method/Standard	Units	Wavelength	Cable Type Tight Buffer	0.70	0.70	0.70	0.70	0.70	_
				1310 nm	Loose Tube	0.35	0.35	0.35	0.35	0.35	-
					Tight Buffer	0.70	0.70	0.70	0.70	0.70	-
				1383 nm	Loose Tube	0.35	0.31	0.35	0.35	0.35	-
e					Tight Buffer	0.70	0.70	0.70	0.70	0.70	0.70
and	Maximum Attenuation	ANSI/TIA-455-78-B-2002	dB/km	1490 nm	Loose Tube	0.25	0.25	0.25	0.25	0.25	0.30
Ĕ					Tight Buffer	0.70	0.70	0.20	0.70	0.70	0.70
rfo				1550 nm	Loose Tube	0.25	0.25	0.25	0.25	0.25	0.30
Pe					Tight Buffer	0.70	0.70	0.70	0.70	0.70	0.70
Cable Performance				1625 nm	Loose Tube	0.25	0.25	0.25	0.25	0.25	0.25
Ca				1210	Tight Buffer	0.41	0.41	0.41	0.41	0.41	-
				1310 nm	Loose Tube	0.34	0.34	0.34	0.34	0.34	-
	T . 140	ANGLICELA AFE 70 D 2002	10 /	1202	Tight Buffer	0.41	0.41	0.41	0.41	0.41	-
	Typical Attenuation	ANSI/TIA-455-78-B-2002	dB/km	1383 nm	Loose Tube	0.33	0.31	0.31	0.31	0.31	-
				155.0	Tight Buffer	0.41	0.41	0.41	0.41	0.41	0.41
				1550 nm	Loose Tube	0.19	0.19	0.19	0.19	0.19	0.25
	_										
	Parameter	Test Method/Standard	Units		litions	1 447	1 447	1 447	1 467	1 467	1 447
	Nominal Group	-	-) nm) nm	1.467	1.467	1.467	1.467	1.467	1.467
	Refractive Index Maximum Individual Fiber			1550) nm	1.468	1.468	1.468	1.468	1.468	1.468
F	Polarization Mode Dispersion	ANSI/TIA/EIA-455-113-96	ps/√km		-	0.2	0.2	0.2	0.2	0.2	0.2
	Cable Cutoff Wavelength	ANSI/TIA-455-80-C-2003	nm		-	1260	1260	1260	1260	1260	1260
	Zero Chromatic Dispersion Wavelength	ANSI/TIA-455-175-B-2003	nm		-	1300-1324	1300-1324	1300-1324	1304-1324	1304-1324	N/A
	Typical Chromatic Dispersion Slope	ANSI/TIA-455-175-B-2003	ps/nm2-km		-		0.087	0.087	0.087	0.087	0.047
JCe	Proof Strength	ANSI/TIA/EIA-455-31-C-2005	kpsi		-line	100 0.69	100	100	100	100	100
nai	0		GPa		On-line		0.69	0.69	0.69	0.69	0.69
forr	Mode Field Diameter	ANSI/TIA-455-191-B-2003	μm		1310 nm 1550 nm		8.8-9.6	8.8-9.6	8.2-9.2	8.2-9.2	N/A
Perf					D nm D nm	9.9-10.9	9.9-10.9	9.9-10.9	9.1-10.1	9.1-10.1	7.8-10.0
Fiber Performance		ANSI/TIA-455-62-B-2003			50 mm mandrel	0.05	0.05	0.01	0.01	0.01	0.05
	Maximum Macrobend Attenuation Increase		dB	1550	0 nm mm mandrel	-	-	-	0.40	0.40	-
	Attendution mercuse			1550	0 nm	-	_	_	0.10	0.10	-
	Cladding Diameter	ANSI/TIA-455-176-A-2003	1100	I turn on IU	mm mandrel	125.0 ± 0.9	125.0 ± 0.9	125.0 ± 0.7	125.0 ± 0.7	125.0 ± 0.7	125.0 ± 0.7
	Coating Diameter	ANSI/TIA-455-176-A-2003	µm micron		-	250 ± 0.9	250 ± 0.9	250 ± 0.7	250 ± 0.7	250 ± 0.7	250 ± 0.7
	Maximum Core/Clad	ANSI/ HA-455-170-A-2005	IIICIUII		-						
	Concentricity Error	ANSI/TIA-455-176-A-2003	μm		-	0.5	0.5	0.5	0.5	0.5	0.5
Ν	Max. Cladding Non-Circularity	ANSI/TIA-455-176-A-2003	%		-	1	1	1	0.7	0.7	0.7
	Maximum Coating/Cladding	ANSI/TIA-455-176-A-2003	μm		-	12	12	12	12	12	12
	Concentricity Error	,	P								
ble	Data Rate	Protocol	Units		length				nission Distar		
rtal	1 Gbps	1000BASE-LH, 1000BASE-LH-LX) nm	10	10	10	10	10	10
ode	1 00003	1000BASE-ZX	km) nm	70	70	70	70	70	70
Sup Dist	10.5	10GBASE-LR	km) nm	25	25	25	25	25	25
ed i	10 Gbps	10GBASE-ER	km		D nm	40	40	40	40	40	40
nte	40.01	10GBASE-ZR	km		D nm D nm	80	80	80	80	80	80
irar ithe	40 Gbps	40GBASE-LR4 100GBASE-LR4	km		D nm	10	10	10	10	10	10
Guaranteed Supportable Ethernet Distances	100 Gbps	100GBASE-ER4	km km		D nm D nm	10 40	10 40	10 40	10 40	10 40	10 40
		1000D/IDE EICT	KITI	1550		10	10	10	10	10	10
v	Throughput Per Direction	Speed Name	Units	Wave	length			Maximum L	ink Distance		
Fiber Channel Link Distances	100 MBps	1GFC	meters) nm	10,000	10,000	10,000	10,000	10,000	10,000
har tar	200 MBps	2GFC	meters) nm	10,000	10,000	10,000	10,000	10,000	10,000
U S	400 MBps	4GFC	meters) nm	10,000	10,000	10,000	10,000	10,000	10,000
he l	800 MBps	8GFC	meters) nm	10,000	10,000	10,000	10,000	10,000	10,000
üΞ	1200 MBps	10GFC	meters) nm	10,000	10,000	10,000	10,000	10,000	10,000
	1600 MBps	16GFC	meters) nm	10,000	10,000	10,000	10,000	10,000	10,000
					Tight Duffer	11001.001	11001.001	11001.001	11001.001	11001.001	
				ISO/IEC	Tight Buffer Loose Tube ordia	24702: OS2	11801: OS1 24702: OS2	24702: OS2	11801: OS1 24702: OS2 -CORE	11801: OS1 24702: OS2	-
			s			0.452.2	0.450.0	G.652.D	G.652.D	G.652.D	G.655.C, E
			ndards		U-T	G.652.D	G.652.D	G.657.A1	G.657.A2	G.657.B3	G.656
				TΙΔ	-//92	CAAR	CAAR	CAAR	CAAR	CAAR	N/A





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N/A

Optical Fiber Specifications

Multimode

PREMISES CABLE

FTTP

WIRELESS

INDEX

					TeraGain®	TeraGain	Lasci	Optimized !	50/125	Lusci	optimizeu.	50/125
		Multimode Fiber Types		62.5/125	50/125	10G/150	10G/300	10G/550	10G/150	10G/300	10G/550	
		9-Digi	t Part Numbe	r Designator	6	5	A	В	F	M	N	Р
		16-Digi	t Part Numbe	r Designator	23	21	27	29	31	28	30	32
Parameter	Test Method/Standard	Units	Wavelength	Cable Type								
	TIA/EIA-455-78	dB/km	850 nm	Tight Buffer/	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Maximum Attenuation	TIA/EIA-455-78	dB/km	1300 nm	Loose Tube Tight Buffer/	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	TIA/ LIA-435-70	ub/ kill	1500 1111	Loose Tube Tight Buffer	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
	TIA/EIA-455-78	dB/km	850 nm	Loose Tube	2.7	2.2	2.2	2.2	2.2	2.2	2.2	2.2
Typical Attenuation				Tight Buffer	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	TIA/EIA-455-78	dB/km	1300 nm	Loose Tube	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Parameter	Test Method/Standard	Units	Cond	itions								
		-	Conu	100115	0.275 ±	0.200 ±	0.200 ±	0.200 ±	0.200 ±	0.200 ±	0.200 ±	0.200 ±
Numerical Aperture	ANSI/TIA-455-177-B-2003	-	-		0.015	0.015	0.015	0.015	0.015	0.015	0.015	0.015
Nominal Group	OTED	-	850	nm	1.496	1.483	1.483	1.483	1.483	1.483	1.483	1.483
Refractive Index	OTDR	-	1300) nm	1.491	1.479	1.479	1.479	1.479	1.479	1.479	1.479
			100 turns on 75 mm	850 nm	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5
	ANSI/TIA-455-62-B-2003	dB	Mandrel	1300 nm	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5
Macrobend			2 turns on 30 mm	850 nm	-	-	-	-	-	≤ 0.1	≤ 0.1	≤ 0.1
Attenuation Change	71131/117-433-02-0-2003	ub	Mandrel	1300 nm	-	-	-	-	-	≤ 0.3	≤ 0.3	≤ 0.3
Proof Strength Cladding Diameter			2 turns on 15 mm	850 nm	-	-	-	-	-	≤ 0.2	≤ 0.2	≤ 0.2
			Mandrel	1300 nm	-	-	-	-	-	≤ 0.5	≤ 0.5	≤ 0.5
Proof Strength	Proof Strength TIA/EIA-455-31		On-		100	100	100	100	100	100	100	100
		GPa	On-	line	0.69	0.69	0.69	0.69	0.69	0.69	0.69	0.69
Cladding Diameter	ANSI/TIA-455-176-A-2003	micron	-		125 ± 2	125 ± 2	125 ± 2	125 ± 2	125 ± 2	125 ± 2	125 ± 2	125 ± 2
Coating Diameter	ANSI/TIA-455-176-A-2003	micron	-		250 ± 10	250 ± 10	250 ± 10	250 ± 10	250 ± 10	250 ± 10	250 ± 10	250 ± 1
Core/Clad Concentricity Error	ANSI/TIA-455-176-A-2003	microns	-		1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
Cladding Non-Circularity	ANSI/TIA-455-176-A-2003	%	-		1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
Coating/Clad Concentricity Error	ANSI/TIA-455-176-A-2003	microns	-		12 µm	12 µm	12 µm	12 µm	12 µm	12 µm	12 µm	12 µm
Minimum Bandwidth:			850	nm	220	500	700	1,500	3,500	700	1,500	3,500
Overfilled Launch	TIA/EIA-455-124-2000	MHz-km	1300		600	500	500	500	500	500	500	500
Minimum Bandwidth:			850		N/A	N/A	950	2,000	4,700	950	2,000	4,700
Laser Effective Modal Bandwidth	TIA-455-220-A	MHz-km	1300		N/A	N/A	500	500	500	500	500	500
								_				
Data Rate	Protocol	Units	Wave					mum Transr				
10 Mbps	10BASE-FL	meters	850		1,250	1,250	1,250	1,250	1,250	1,250	1,250	1,250
100 Mbps	100BASE-SX	meters	850		500	750	1,000	1,000	1,000	1,000	1,000	1,000
sto	100BASE-FX	meters	1300		2,000	2,000	2,000	2,000	2,000	2,000	2,000	2,000
ے 1 Gbps	1000BASE-SX	meters	850		300	750	1,000	1,000	1,040	1,000	1,000	1,040
	1000BASE-LX	meters	1300		600*	600*	600	600	600	600	600	600
10 Mbps 100 Mbps 10 Gbps 10 Gbps	10GBASE-SR	meters	850		35	82	150	300	550	150	300	550
10 0000	10GBASE-LRM	meters	1300		300	300	300	300	300	300	300	300
μ		1	950	nm	-	-	-	100	125	-	100	125
40 Gbps	40GBASE-SR4	meters										
100 Gbps	40GBASE-SR4 100GBASE-SR10 ag patch cord required	meters	850		-	-	-	100	125	-	100	125

Throughput Per Direction Speed Name Units Wavelength Maximum Link Distance 100 MBps 1GFC 850 nm 300 500 500 860 500 860 meters r Chanı Distanı * 2GFC 200 MBps 850 nm 150 300 300 500 300 500 * meters 150 150 400 400 850 nm 380 380 400 MBps 4GFC 50 150 meters 150 190 * 800 MBps 8GFC meters 850 nm 21 50 50 50 150 190 1200 MBps 10GFC meters 850 nm 33 82 82 300 82 300 1600 MBps 16GFC meters 850 nm 15 35 35 100 125 35 100 125

*The link distance on OM4 fiber has not been defined for these speeds.

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ea for t	nese speeas.										
	ISO/IE	C 11801	OM1	OM2	OM2	OM3	OM4	OM2	OM3	OM4	
S	Telc	ordia	GR-20-CORE								
Ird	τĚ ITU-T		N/A	N/A G.651.1							
Jde	TIA	-492	AAAA-A	AAAB	AAAB	AAAC-A	AAAD	AAAB-A	AAAC-B	AAAD	
Standards	IEC 60793	3-2-10 Type	A1b	A1a.1	A1a.1	A1a.2	A1a.3	A1a.1	A1a.2	A1a.3	
ANSI/ICEA		Tight Buffer	S-83-596								
	ANSI/ ICLA	Loose Tube				S-87-	-640				

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Optical Fiber Cable

ansi/tia/eia-598-b standard colors						
Fiber/Unit Number	Fiber Color					
1	Blue					
2	Orange					
3	Green					
4	Brown					
5	Slate					
6	White					
7	Red					
8	Black					
9	Yellow					
10	Violet					
11	Rose					
12	Aqua					
13 and higher	The color code is repeated, Black stripe or dash is added, according to the ANSI/TIA/EIA-598-B specifications					

STANDARD JACKET COLORS						
Cable Type	Standard Jacket Color					
Single Mode Premises	Yellow					
Standard Multimode Premises	Orange					
Laser-Optimized 50 µm Premises	Aqua					
Indoor/Outdoor	Black					
Hybrid Standard Multimode Premises	Orange					
Hybrid Laser-Optimized 50 μm Premises	Aqua					
Outside Plant (OSP)	Black*					

Custom jacket colors also available

*One extruded color stripe is available. Standard stripe colors are Orange, Green, Yellow and Blue (other colors available upon request).

OSP FLOODING COMPOUND AND JACKET MARKING OPTIONS

	Flooding Compound	Jacket Marking	Part No. Designator (Last Digit in Part No.)
Standard	Dry (SAP) Block	Feet	1
	Dry (SAP) Block	Meters	2
	Flooding Compound	Feet	3
	Flooding Compound	Meters	4
	Special Print Dry (SAP) Block	Feet	5
Options	Special Print Dry (SAP) Block	Meters	6
	Special Print Flooding Compound	Feet	7
	Special Print Flooding Compound	Meters	8

OSP CENTRAL MEMBERS/STRENGTH MEMBERS OPTIONS

	Central Member/Strength Member	
Standard	Dielectric / Dielectric	
Options	Standard loose tube cables are available with a steel center member	
	Single tube cables are available with steel strength members embedded in the outer jacket	

ADDITIONAL OSP OPTIONS

- Special protection jacket
- · Rodent and fuel protection
- Nylon outer jacket

 $Contact \ your \ Superior \ Essex \ sales \ representative \ for \ further \ information.$

Canadian Central Office Cable

The distinctive Canadian insulation color-coding utilizes colored ink in a systematic pattern of dots/dashes/bands. These marks provide positive identification of each conductor and each pair within a unit. Cable cores may contain both pairs and single conductors. And, some cables may contain "spare" pairs. Each insulated conductor shall be marked with 1 or 2 dots/dashes/bands in accordance with the table below.

INSULATION COLOR CODES				
	Condu	ctor #1	Condu	ctor #2
Pair Number	Solid Color	Single Band Color	Solid Color	Double Band Color
1	Blue	White	Blue	White
2	Orange	White	Orange	White
3	Green	White	Green	White
4	Brown	White	Brown	White
5	Slate	White	Slate	White
6	Blue	Red	Blue	Red
7	Orange	Red	Orange	Red
8	Green	Red	Green	Red
9	Brown	Red	Brown	Red
10	Slate	Red	Slate	Red
11	Blue	Black	Blue	Black
12	Orange	Black	Orange	Black
13	Green	Black	Green	Black
14	Brown	Black	Brown	Black
15	Slate	Black	Slate	Black
16	Blue	Yellow	Blue	Yellow
17	Orange	Yellow	Orange	Yellow
18	Green	Yellow	Green	Yellow
19	Brown	Yellow	Brown	Yellow
20	Slate	Yellow	Slate	Yellow
21	Blue	Violet	Blue	Violet
22	Orange	Violet	Orange	Violet
23	Green	Violet	Green	Violet
24	Brown	Violet	Brown	Violet
25	Slate	Violet	Slate	Violet

SPARE PAIR INSULATION COLOR CODES

	Conductor #1		Condu	ctor #2
Spare Pair Number	Solid Color	Single Band Color	Solid Color	Double Band Color
1	White	Black	White	Black
2	White	Yellow	White	Yellow
3	Red	White	Red	White
4	Red	Yellow	Red	Yellow
5	Red	Black	Red	Black

SPARE SINGLE INSULATION COLOR CODES

	Single Conductor		
Spare Single Number	Solid Color	Triple Band Color	
1	White	Black	
2	White	Yellow	
3	Red	White	
4	Red	Yellow	



X-6

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For pairs numbering 1 through 25, the pair identification colors are outlined below. In cable constructions containing more than 25-pair, the colors are repeated as necessary. Color coded binders are used to identify 25-pair groups of color coded pairs.

PAIR IDENTIFICATION COLORS				
Pair Number	Tip Color	Ring Color		
1	White	Blue		
2	White	Orange		
3	White	Green		
4	White	Brown		
5	White	Slate		
6	Red	Blue		
7	Red	Orange		
8	Red	Green		
9	Red	Brown		
10	Red	Slate		
11	Black	Blue		
12	Black	Orange		
13	Black	Green		
14	Black	Brown		
15	Black	Slate		
16	Yellow	Blue		
17	Yellow	Orange		
18	Yellow	Green		
19	Yellow	Brown		
20	Yellow	Slate		
21	Violet	Blue		
22	Violet	Orange		
23	Violet	Green		
24	Violet	Brown		
25	Violet	Slate		

For cables through 600-pair, 25-pair groups are identified by their binder colors in the same sequence as the pair identification is accomplished. Group 1 has White-Blue binders, Group 2 has White-Orange binders, etc. In this manner, each pair is uniquely identified. In cables having 25-pair or less, binders are normally not used. However, if specified, the binders will be Group 1, White-Blue. For cables of 100-pair or less, the use of the White binder is optional.

GROUPS OF PAIRS BINDER IDENTIFICATION COLORS				
umber	Group Pair Counts	Binder	Colors	
	1-25	White	Blue	
	26-50	White	Orange	
	51-75	White	Green	
	76-100	White	Brown	
	100-125	White		
	126-150	Red	Blue	
	151-175	Red	Orange	
	176-200	Red	Green	
	201-225	Red	Brown	
	226-250	Red		
	251-275	Black	Blue	
	276-300	Black	Orange	
	301-325	Black	Green	
	326-350	Black	Brown	
	351-375	Black	Slate	
	376-400	Yellow	Blue	
	401-425	Yellow	Orange	
	426-450	Yellow	Green	
	451-475	Yellow	Brown	
	476-500	Yellow	Slate	
	501-525	Violet	Blue	
	526-550	Violet	Orange	
	551-575	Violet	Green	
	576-600	Violet	Brown	

It is desirable for manufacturing purposes to combine four 25-pair groups into "super units" when cables have 900-pair or more.

SUPER-UNITS BINDER IDENTIFICATION COLORS				
Pair Number	Group Number	Binder Color		
1-600	1-24	White		
601-1,200*	25-48	Red		
1,201-1,800*	49-72	Black		
1,801-2,400*	73-96	Yellow		
2,401-3,000*	97-120	Violet		
3,001-3,600*	121-144	Blue		
3,601-4,200*	145-168	Orange		

*The above information is based on the Full Count binder color coding used in RDUP copper cable designs having 1,200-pair or more.



TECHNICAL GUIDELINE

Binder color coding information and core lay-up diagrams are available on our site. Refer to the "Resources" section on our site for the Technical Guideline, "OSP Copper Core Lay-up Diagrams: Full Count or Mirror Image," for more information.

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X-7

Mechanical Protection (+M) for Extreme Risk Environments



SPECIFICATIONS	
Basic Cable	Mechanical Protection (+M) may be applied over any OSP Air core or Filled core copper cable
+M Armor	An electrically continuous 0.006 inch corrugated steel armor is applied directly over a basic cable providing additional mechanical protection in extreme environments; the sheath interfaces are fully flooded as the steel armor is applied longitudinally with an overlap, encasing the basic cable
Overall Jacket	A black, polyethylene jacket designed to provide a tough protective covering is applied overall; the polyethylene contains antioxidant(s) for long-term stability and furnace black to prevent damage from ultraviolet exposure
Jacket Marking	Identifying information includes a telephone handset, cable code, pair count, AWG, date of manufacture and sequential length markings at 2 foot intervals
Temperature Rating	See temperature rating for underlying cable

PRODUCT DESCRIPTION

Superior Essex standard OSP cable offering with the +M feature is designed for extreme direct burial or lashed aerial installations. Extreme environments can include locations difficult to access, those with rocky or unstable terrain, rodent infested locations and shallow water crossings. Mechanical protection (+M) armoring is suitable for environments where additional mechanical protection is warranted or desired.

Weight and diameters are increased when +M is added to protect standard cables. Approximate weights and diameters can be provided by contacting your Superior Essex Inside or Outside Sales Representative (please specify the standard OSP cable desired).

In most instances, +M protected cables will be supplied in standard ship lengths corresponding to the standard OSP cable selected. Special lengths require Superior Essex approval before manufacturing. Also, reel sizes can be provided upon request.

APPLICATIONS

- Direct burial where additional mechanical protection is required or desired
- Lashed aerial where additional mechanical protection is required or desired
- GOPIC®-F+M and CASPIC®-F+M cable designs can be used for submersion under water in short shallow rivers, ponds or lakes not exceeding 30 feet deep



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NEC FIRE RESISTANCE RATINGS

Article 800 of the National Electrical Code (NEC), also known as NFPA 70, covers requirements for low-voltage communications cables. The NEC requires that cables used in premises, both commercial and residential, be "listed for the purpose" by a Nationally Recognized Test Laboratory (NRTL, pronounced "nurtle"). Other countries have similar requirements. UL (Underwriters Laboratories Inc.) is the most recognized listing agency in the US. UL 444 is the overall specification used to identify the requirements for listed communications cables. Many of the fire resistance test procedures called out in UL 444 are written by UL. However, other laboratories, such as ITS (Intertek Testing Services) and CSA (Canadian Standards Association), can also provide listing compliance to the NEC.

Five levels of fire resistance are specified. These are outlined below, from most stringent to least. The ratings are hierarchical, i.e., from a fire resistance standpoint, a higher rating can be substituted for any lower rating, but not vice versa.

NEC Designation	CSA Equivalent	Common Term	Test	Comments
СМР	FT6	Communications Plenum	NFPA 262	 Cable must have resistance to flame spread and reduced smoke generating properties Cable is approved for placement in air handling ducts and chambers (plenums) without the use of fireproof conduit Purpose of the rating is to lessen the transmission of fire and visible smoke to unaffected parts of the building Toxic or corrosive elements of the smoke are not measured Equivalent to Canadian FT6 rating
CMR	N/A	Communications Riser	UL 1666	 Cable must not transmit flame from one floor to another when placed vertically in a building shaft (riser) Equivalent to Canadian FT4 rating
CMG	FT4	Communications General Use	CSA C22.2 No. 0.3-M (Vertical Tray)	 Cable may not transmit flame for more than 4 feet, 11 inches Cable shall not penetrate floors or ceilings (i.e. cable may only be used within a single floor) Designation was added as a part of the harmonization efforts between U.S. and Canadian standards
СМ	N/A	Communications General Purpose	UL 1581 (Vertical Tray)	 Cable may not transmit flame for more than 4 feet, 11 inches Cable shall not penetrate floors or ceilings (i.e. cable may only be used within a single floor)
СМХ	FT1	Communications Limited Purpose	UL 1581 VW-1 (Vertical Wire)	 Cable meets the least stringent flame spread requirements of all ratings For residential use, but can only be installed in one and two-family (duplex) housing units Often rated with optional UL requirements for outdoor use*

*These "outdoor" requirements are limited to some cold temperature properties and UV resistance. They do not qualify a cable to be substituted for an Outside Plant (OSP) cable. For example, they have no protection against the intrusion of water, which can destroy a cable's transmission properties and physically degrade a cable as well. The purpose of the "outdoor" rating is to ensure the cable can withstand outdoor exposure in the short run between the Network Interface Unit and the point of entry into the interior of the home.

BALANCED TWISTED PAIR TRANSMISSION CATEGORIES

In response to growing demand for data applications, premises cable performance has evolved such that several categories of transmission performance for balanced twisted pair cables have been developed. These categories are detailed below. The categories are hierarchical, i.e., a higher category can be substituted for any lower category, but not vice versa.

Category	Maximum Bandwidth	Common Applications	Specifications	Comments
CAT 6A	500 MHz	10GBASE-T (IEEE 802.3an)		Designed for reduced alien crosstalk
CAT 6	250 MHz	1000BASE-T	ANSI/TIA-568-C.2 ANSI/ICEA S-90-661	Doubles the bandwidth of CAT 5e and vastly improves signal-to-noise margins
CAT 5e	100 MHz	1000BASE-T		Characterized by tightly twisted pairs to reduce crosstalk lossProposed FCC minimum category requirement effective 2020
CAT 5	100 MHz	100BASE-T 100 Mbps TPDDI 622 Mbps ATM		 No longer recognized as an appropriate medium for commercial networking installations (replaced by CAT 5e or higher)
CAT 3	16 MHz	10BASE-T Analog Voice Telecom Closet Wiring		 Minimum allowed by the FCC for horizontal cable in commercial and residential voice and data applications Market trend is to abandon CAT 3 in favor of installing CAT 5e or higher for both data and voice



DISTANCE THE CABLE WILL RUN

Voltage drop should be calculated or refer to equipment manufacturer's recommendations. Knowing the cable run will help identify the right gauge size cable to select. A larger gauge size is suitable for longer runs.

NON-POWER LIMITED OR POWER LIMITED

The difference between power limited cables and non-power limited cables are specified in specific sections of the NEC.

- Non-Power Limited Cable is a fire alarm circuit powered by a source that complies with NEC sections 760-21 and 760-23. Non-power limited fire alarm cables have been designed for installations where fire alarm cables are permitted to occupy the same enclosure, or race way as other Class 1 Circuits, or 600V cables.
- Power Limited Cable is a fire alarm circuit powered by a source that complies with section 760-41. Power limited fire alarm cables are rated for 300V. Superior Essex offers only power limited fire alarm and power limited security control cables.

SHIELDED OR NON-SHIELDED

Is the system microprocessor based and therefore sensitive to EMI and RFI? If the system is computer based, a **shielded** cable will protect the circuits from this outside interference and keep the signal constant. If interference is not a concern, then a **non-shielded** cable is a cost effective solution.

- EMI (Electro Magnetic Interference): EMI can come from electrostatic sparks or spiking from motors, neon or fluorescent lighting ballasts or any other sources that cause noise. Shielded cables should be considered for installations in areas near dimmer panels and light switches, in parallel runs, near neon or fluorescent lights and near power cables.
- RFI (Radio Frequency Interference): Some frequencies used for radio communications can become coupled onto conductors to produce RFI.

SIMPLIFYING PRODUCT SELECTION

Superior Essex designed its Fire Alarm and Security Control cables to have multiple NEC and UL listings. A single cable design satisfies several listing categories and can be deployed if one listing category is called out by the customer. As an example, the Fire Alarm cable jacket is marked with three listings: FPLR, CL3R and CMR. This covers UL 1424 for the FPLR rating, UL 13 for the CL3R rating and UL 444 for the CMR rating.

When the customer specification calls for any one of the three specifications, this product is properly listed for that application. This simplifies product selection and helps with ordering stock and installation. Superior Essex has combined General Use (FPL) and Riser (FPLR) into one category called Riser.

Superior Essex Category	NEC/UL Listing	Suitable Applications	Substitutions
Non-Plenum or Riser	FPLR and FPL	Vertical runs in a shaft or from floor to floor and general purpose use	CM, CMR, CL3R
Plenum	FPLP	Ducts, plenums and other space used for environmental air	CMP, CL3P

INSULATION COLORS

Fire Alarm Conductor Number	Insulation Color
1	Black
2	Red
3	Brown
4	Blue
5	Orange
6	Yellow
7	Violet
8	Gray

Security Control Conductor Number	Insulation Color
1	Black
2	Red
3	White
4	Green
5	Brown
6	Blue
7	Orange
8	Yellow
9	Violet
10	Gray
11	Pink
12	Tan

CABLE SELECTION FOR VIDEO APPLICATIONS

Closed circuit security cameras use baseband frequencies, typically under 5 MHz. These applications are best suited for the bare copper center conductors of the Superior Essex RG-59 coaxial cable, which also features 95% copper braiding. RG-59 coaxial cable is specifically designed for applications operating below 1 GHz, but will also support higher frequency applications at shorter distances than RG-6 coaxial cable.

Many video and RF applications use frequencies above 1 GHz. RG-6 coaxial cable is often the preferred cable choice for applications such as CATV transmission. In such cases, the decision is whether to use 60% or 80% braid/shield or a quad shield design. The quad shield design is slightly more expensive than the 60% and 80% shield designs, but offers superior interference protection than the 60% and 80% braid versions.

It is becoming more common however, for copper category (CAT) twisted pair cables, like CAT 5e and 6, to be used for Closed Circuit over Twisted Pair (CCTP) systems. Digitally formatted signals provide dramatically better pictures and better sound quality. Digital Signal Processed (DSP) cameras fed by copper twisted CAT 5e and 6 cables, typically have more control setting options, plus digital video recorders (DVRs) options. Both DSP cameras and DVRs can typically be connected with coax products, but you should consult the camera manufacturer for its recommendation before making a cable selection.

		Bare Cop	per Standards		NEC and UL Standards						Miscellaneous Standards		
Power Limited Cable Type	Listing	ASTM B-3 (Solid Copper)	ASTM B-3 and B-8 (Stranded Copper)	UL 1424 Fire Alarm NEC Article 760	UL 13 Security NEC Article 725 (150 Volts)	UL 444 NEC Article 800 (300 Volts)	UL 1666	NFPA 262	California State Fire Marshall	Sunlight Resistant	RoHS- Compliant		
Fire Alarm,	Riser	~		~	v	v	v		~	~	~		
Non-Shielded and Shielded	Plenum	~		V	V	V		~	~		~		
Security Control,	Riser	~	~	V	V	V	~		~	~	~		
Non-Shielded and Shielded	Plenum	V	~	v	~	~		~	V		V		



This information is intended as a guideline. Because conduit sizes may vary by manufacturer, please verify all dimensions prior to using this reference chart. This guideline is based on National Electrical Code (USA) recommendations for conduit fill of runs with no more than two 90° bends. For assistance in calculating conduit fill, refer to the "Resources" area of our site for the Technical Guideline, "How to Calculate Conduit Fill." Use only approved lubricants.

Conduit Trade Size Designator* English (Metric)	1⁄2 (16)	3⁄4 (21)	1 (27)	1¼ (35)	1½ (41)	2 (53)	2½ (63)	3 (78)	3½ (91)	4 (103)	5 (129)
Conduit Internal Diameter in (mm)	0.62 (15.7)	0.82 (20.9)	1.05 (26.6)	1.38 (35.1)	1.61 (40.9)	2.07 (52.5)	2.47 (62.7)	3.07 (77.9)	3.55 (90.1)	4.03 (102.3)	5.05 (128.2)
Conduit Cross-Sectional Area in ² (mm ²)	0.30 (195)	0.53 (345)	0.87 (559)	1.51 (973)	2.05 (1,322)	3.39 (2,177)	482 (3,106)	7.45 (4,794)	9.96 (6,413)	12.83 (8,268)	20.15 (12,984)
Cable Nominal Diameter in (mm)			(1 Cable			s at Maximum es @ 31% Max				m)	
0.10 (2.5)	15	26	44	76	103	171	262	376	504	649	1020
0.13 (3.3)	9	15	26	45	61	101	155	223	298	384	603
0.15 (3.8)	6	11	19	33	46	76	116	167	224	288	453
0.18 (4.6)	4	8	13	23	32	52	80	116	155	200	314
0.20 (5.1)	3	6	11	19	25	42	65	94	126	162	255
0.21 (5.3)	3	6	10	17	23	38	59	85	114	147	231
0.22 (5.6)	3	5	9	15	21	35	54	77	104	134	210
0.23 (5.8)	2	5	8	14	19	32	49	71	95	122	192
0.24 (6.1)	2	4	7	13	18	29	45	65	87	112	177
0.25 (6.4)	1	4	7	12	16	27	41	60	80	103	163
0.26 (6.6)	1	3	6	11	15	25	38	55	74	96	150
0.27 (6.9)	1	3	6	10	14	23	35	51	69	89	139
0.28 (7.1)	1	3	5	9	13	21	33	48	64	82	130
0.29 (7.4)	1	3	5	9	12	20	31	44	59	77	121
0.30 (7.6)	1	2	4	8	11	19	29	41	56	72	113
0.31 (7.9)	1	2	4	7	10	17	27	39	52	67	106
0.32 (8.1)	1	2	4	7	10	16	25	36	49	63	99
0.33 (8.4)	1	1	4	6	9	15	24	34	46	59	93
0.34 (8.6)	1	1	3	6	8	14	22	32	43	56	88
0.35 (8.9)	1	1	3	6	8	13	21	30	41	53	83
0.40 (10.2)	1	1	2	4	6	10	16	23	31	40	63
0.45 (11.4)	1	1	1	3	5	8	12	18	24	32	50
0.50 (12.7)	0	1	1	3	4	6	10	15	20	25	40
0.55 (14.0)	0	1	1	1	3	5	8	12	16	21	33
0.60 (15.2)	0	0	1	1	2	4	7	10	14	18	28
0.65 (16.5)	0	0	1	1	1	4	6	8	11	15	24
0.70 (17.8)	0	0	1	1	1	3	5	7	10	13	20
0.75 (19.1)	0	0	1	1	1	3	4	6	8	11	18
0.80 (20.3)	0	0	0	1	1	2	4	5	7	10	15
0.85 (21.6)	0	0	0	1	1	1	3	5	6	8	14
0.90 (22.9)	0	0	0	1	1	1	3	4	6	8	12
0.95 (24.1)	0	0	0	1	1	1	2	4	5	7	11
1.00 (25.4)	0	0	0	1	1	1	2	3	5	6	10

*Identifier only; not an actual dimension

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Packaging Descriptions



Steel Reel

Long lengths of cable are placed onto Steel Reels. An advantage of this reel is that it is environmentally-friendly and recycled for years of service.



BrakeBox® Dual Brake System

This package is dual purpose. In this design the cable is placed onto a plastic spool, which is placed into a box. The brake allows for back-tension and over-spin control. The spool may be taken from the box for installation or may be left in the box where the cable pays out through a slotted opening.



Wood/Plywood Reel

Reels may be made of plywood or wood. Superior Essex wooden reels can be recycled an average of five times before retirement (see Web site for further details).



РОР™ Вох

In this package, the cable is coiled into a box. The product pays out through a tube opening in the box. This design does not allow for the cable to be removed as a unit from the box.



Spool

Wire is wound onto a spool. The spool is placed inside a box for protection during shipment. Spools are smaller than wood or steel reels.



Reel-in-a-Box

This package is dual purpose. In this design the cable is placed onto a plastic spool, which is placed into a box. The spool may be taken from the box for installation or may be left in the box where the cable pays out through a slotted opening.



Ribbed Spool

Cable is wound onto a black, ribbed, plastic recyclable spool. The spool is robust and easy to handle. Spools are smaller than wood or steel reels.



Knock-out Box

Cable is coiled and fastened within a box. Knock out boxes can be identified by a perforated "knockout" that is removed, allowing access to the cable.



Parallel Cone

This package is designed to fit into the General Machine Products (GMP) cast aluminum wire dispensing system (GMP units 80470 or 80471). When placed onto the GMP dispenser, the jumper or distribution frame wire pays out smoothly. GMP dispensers are most common in central offices.



Coils

Coils refer to lengths of cable wrapped into a shape (usually a circle) and fastened with one or more ties. Coils can be protected by a shrink wrap. Multiple coils may be placed inside a box or on a pallet for shipping, and may be secured by stretch-wrap. Coils can be custom configured to fit a customer's unique cable and wire feeding systems.



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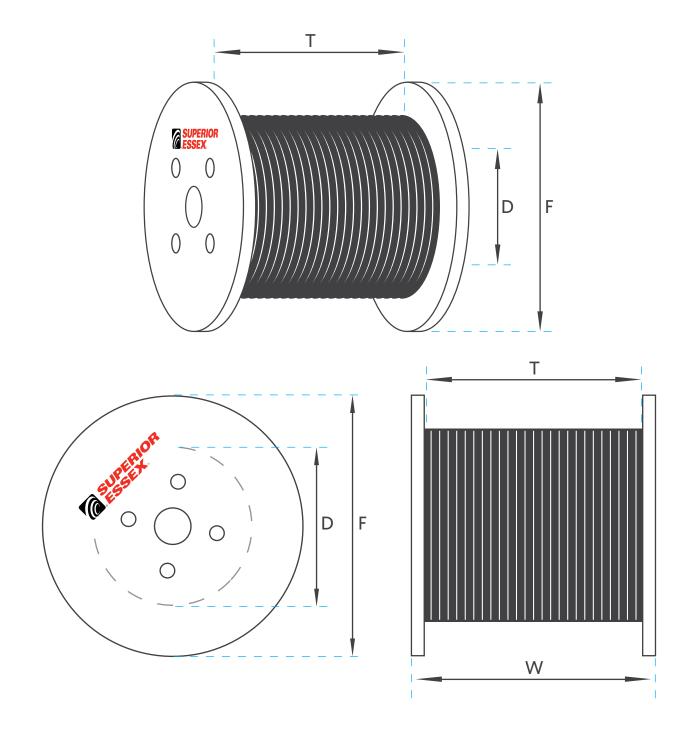
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FTTP

WIRELESS

INDEX TECH INFO



Flange x Traverse x Drum (F x T x D)

F = Flange Diameter T = Traverse (inside width between flanges) D = Drum Diameter W = Overall Width (includes flanges)

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Packaging Premises Fiber Reels

Deal Turne		Plastic		1	Plywood	
Reel Type	10	12	14	16	-	20
Flange (F) in	12				24	30
Traverse (T) in	6	9	9	15	18	18
Drum (D) in	5	5	5	8	12	12
Overall Width (W) in	7.125	10.125	10.375	15.75	19.375	19.375
Reel Weight Ibs	2	2	2	5	17	28
SES FIBER REEL CAPACITIES						
Cable Nominal Diameter in (mm)		Cable Length ft (m)			Cable Length ft (m)	
0.075 (1.91)	2,561 (781)	3,856 (1,175)	7,319 (2,231)	12,836 (3,912)		
0.100 (2.54)	1,441 (439)	2,169 (661)	4,172 (1,272)	7,434 (2,266)	28,571 (8,709)	
0.125 (3.18)	917 (280)	1,383 (422)	2,665 (812)	4,753 (1,449)	18,270 (5,569)	37,970 (11,57
0.150 (3.81)	637 (194)	961 (293)	1,749 (533)	3,198 (975)	12,283 (3,744)	25,836 (7,875
0.175 (4.45)	429 (131)	646 (197)	1,321 (403)	2,314 (705)	8,874 (2,705)	19,346 (5,897
0.200 (5.08)	329 (100)	495 (151)	982 (299)	1,853 (565)	7,123 (2,171)	14,802 (4,512
0.225 (5.72)	247 (75)	374 (114)	807 (246)	1,290 (393)	5,318 (1,621)	11,630 (3,545
0.250 (6.35)	227 (69)	343 (105)	661 (202)	1,183 (361)	4,551 (1,387)	9,459 (2,883
0.275 (6.99)	169 (51)**	255 (77)**	539 (164)**	934 (285)	3,584 (1,093)	7,623 (2,323
0.300 (7.62)	157 (47)**	238 (72)**	434 (132)**	723 (220)	3,058 (932)	6,433 (1,961
0.325 (8.26)	112 (34)**	170 (51)**	344 (104)**	678 (207)	2,604 (794)	5,396 (1,645
0.350 (8.89)	105 (32)**	160 (48)**	327 (99)**	513 (156)	2,208 (673)	4,813 (1,467
0.375 (9.53)	100 (30)**	151 (46)**	254 (77)**	485 (148)	1,861 (567)	3,987 (1,215
0.400 (10.16)	67 (20)**	101 (30)**	242 (73)**	460 (140)	1,770 (540)	3,537 (1,078
0.425 (10.80)	64 (19)**	96 (29)**	183 (55)**	336 (102)**	1,482 (452)	3,131 (954)
0.450 (11.43)	61 (18)**	92 (28)**	176 (53)**	320 (97)**	1,226 (374)	2,763 (842)
0.475 (12.07)	58 (17)**	88 (26)**	169 (51)**	306 (93)**	1,175 (358)	2,428 (740)
0.500 (12.70)	56 (17)**	85 (25)**	163 (49)**	293 (89)**	1,130 (344)	2,348 (716)
0.525 (13.34)	*	*	*	200 (60)**	922 (281)	2,056 (627)
0.550 (13.97)	*	*	*	193 (58)**	889 (271)	1,789 (545)
0.575 (14.61)	*	*	*	186 (56)**	710 (216)	1,737 (530)
0.600 (15.24)	*	*	*	179 (54)**	687 (209)	1,501 (458)
0.625 (15.88)	*	*	*	173 (52)**	665 (203)	1,461 (445)
0.650 (16.51)	*	*	*	168 (51)**	645 (196)**	1,251 (381)*
0.675 (17.15)	*	*	*	*	500 (152)**	1,220 (371)*
0.700 (17.78)	*	*	*	*	486 (148)**	1,191 (363)*
0.725 (18.42)	*	*	*	*	473 (144)**	1,009 (307)*
0.750 (19.05)	*	*	*	*	460 (140)**	986 (300)**
0.775 (19.69)	*	*	*	*	449 (136)**	965 (294)**
0.800 (20.32)	*	*	*	*	438 (133)**	805 (245)**
0.825 (20.96)	*	*	*	*	324 (98)**	789 (240)**
	*	*	*	*		
0.850 (21.59)	*	*	*	*	317 (96)**	773 (235)**
0.875 (22.23)	*	*	*	*	309 (94)**	759 (231)**
0.900 (22.86)	*	*	*	*	303 (92)**	621 (189)**
0.925 (23.50)	*	*	*	*	296 (90)**	610 (185)**
0.950 (24.13)	*	* +	÷		290 (88)**	599 (182)**
0.975 (24.77) 1.000 (25.40)	^	^	^	*	284 (86)** 279 (85)**	589 (179)** 579 (176)**

*Drum diameter is less than 10 times cable diameter (minimum bend radius). **Drum diameter is less than 20 times cable diameter (recommended bend radius). This chart pertains to round cable only, and may be further limited by the design of the cable.







Packaging OSP Fiber Wood Reels

SP FIBER WOOD REEL DIME	NSIONS						
Flange (F) in	30	36	48	60	72	84	96
Traverse (T) in	18	30	32	36	36	42	42
Drum (D) in	12	17	23	29.5	37.5	42	48
Overall Width (W) in	20	32	34	39	39	45	45
Reel Weight lbs	59	104	184	416	596	900	1,100
SP FIBER WOOD REEL CAPA	CITIES						
Cable Nominal Diameter in (mm)				Cable Length ft (m)			
0.25 (0.00)	E 01E (1 E 20)	11 202 (2 112)	22 695 (7 210)	11 669 (12 700)			

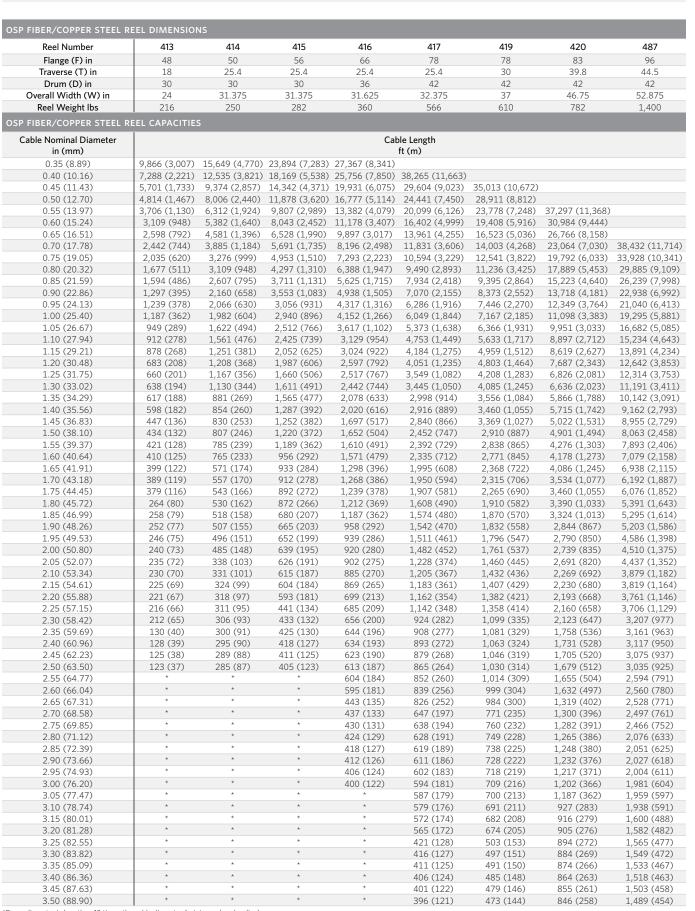
in (mm)				ft (m)			
0.35 (8.89)	5,015 (1,529)	11,293 (3,442)	23,685 (7,219)	41,668 (12,700)			
0.40 (10.16)	3,686 (1,123)	8,411 (2,564)	17,893 (5,454)	32,687 (9,963)	46,454 (14,159)		
0.45 (11.43)	2,879 (878)	6,640 (2,024)	14,038 (4,279)	25,425 (7,750)	35,596 (10,850)		
0.50 (12.70)	2,447 (746)	5,667 (1,727)	11,578 (3,529)	20,477 (6,241)	29,187 (8,896)		
0.55 (13.97)	1,864 (568)	4,397 (1,340)	9,501 (2,896)	17,252 (5,259)	23,795 (7,253)	40,579 (12,369)	
0.60 (15.24)	1,564 (477)	3,726 (1,136)	7,728 (2,356)	14,487 (4,416)	20,240 (6,169)	33,839 (10,314)	45,134 (13,757
0.65 (16.51)	1,304 (397)**	3,143 (958)	6,749 (2,057)	12,091 (3,685)	17,160 (5,230)	29,324 (8,938)	38,085 (11,608
0.70 (17.78)	1,242 (378)**	2,635 (803)	5,889 (1,795)	10,003 (3,049)	14,469 (4,410)	25,357 (7,729)	33,321 (10,156
0.75 (19.05)	1,028 (313)**	2,508 (764)	5,126 (1,562)	8,842 (2,695)	12,927 (3,940)	21,847 (6,659)	29,096 (8,869)
0.80 (20.32)	839 (255)**	2,089 (637)	4,445 (1,355)	7,806 (2,379)	11,549 (3,520)	18,723 (5,707)	25,327 (7,720)
0.85 (21.59)	806 (245)**	1,717 (523)	3,836 (1,169)	6,875 (2,095)	9,580 (2,920)	16,929 (5,160)	21,947 (6,689)
0.90 (22.86)	647 (197)**	1,647 (502)**	3,288 (1,002)	6,034 (1,839)	8,501 (2,591)	15,303 (4,664)	19,987 (6,092)
0.95 (24.13)	624 (190)**	1,333 (406)**	3,165 (965)	5,273 (1,607)	8,172 (2,491)	13,821 (4,213)	18,201 (5,548)
1.00 (25.40)	603 (183)**	1,284 (391)**	2,694 (821)	5,083 (1,549)	7,246 (2,208)	12,466 (3,800)	16,564 (5,049)
1.05 (26.67)	474 (144)**	1,240 (377)**	2,603 (793)	4,424 (1,348)	6,399 (1,951)	11,223 (3,421)	14,128 (4,306)
1.10 (27.94)	459 (139)**	983 (299)**	2,194 (669)	4,280 (1,305)	5,625 (1,714)	10,078 (3,072)	13,673 (4,168)
1.15 (29.21)	445 (135)**	951 (289)**	2,126 (648)	3,702 (1,128)	5,444 (1,659)	9,022 (2,750)	12,390 (3,777)
1.20 (30.48)	338 (103)**	922 (281)**	1,769 (539)**	3,591 (1,095)	4,762 (1,451)	8,048 (2,453)	11,202 (3,414)
1.25 (31.75)	*	895 (272)**	1,717 (523)**	3,081 (939)	4,621 (1,408)	7,818 (2,383)	10,100 (3,078)
1.30 (33.02)	*	688 (209)**	1,670 (509)**	2,995 (913)	4,016 (1,224)	6,948 (2,118)	9,075 (2,766)
1.35 (34.29)	*	669 (203)**	1,366 (416)**	2,542 (775)	3,905 (1,190)	6,764 (2,062)	8,835 (2,693)
1.40 (35.56)	*	651 (198)**	1,330 (405)**	2,476 (755)	3,366 (1,026)	5,984 (1,824)	7,913 (2,412)
1.45 (36.83)	*	634 (193)**	1,297 (395)**	2,415 (736)	3,279 (999)	5,836 (1,779)	7,719 (2,353)
1.50 (38.10)	*	619 (188)**	1,266 (385)**	2,022 (616)**	3,198 (975)	5,132 (1,564)	6,885 (2,099)

*Drum diameter is less than 10 times cable diameter (minimum bend radius). **Drum diameter is less than 20 times cable diameter (recommended bend radius).

This chart pertains to round cable only, and may be further limited by the design of the cable.

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*Drum diameter is less than 12 times the cable diameter (minimum bend radius)

ESSEX

This chart applies to round cable only. Chart shows maximum calculated capacity. Actual available cable lengths may be less than capacity. Capacity is based on 2 inch clearance.



Packaging

OSP Fiber/Copper Steel Reels

TECH INFO

X-16

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SP COPPER WOOD	REEL DIM	ENSIONS										
Flange (F) in	30	36	44	46	52	58	62	65	72	78	84	96
Traverse (T) in	18	18	18	25	25	25	30	30	36	40	40	40
Drum (D) in	12	14	20	20	20	20	24	32	36	39	42	48
verall Width (W) in	21	21	21	28	29	29	34	35	41	45	46	46
Reel Weight Ibs	46	64	108	165	203	245	288	368	614	699	797	1,175
SP COPPER WOOD	REEL CAP	ACITIES										
Cable O.D. in (mm)						ft (Length m)					
0.40 (10.16)	3,723 (1,135)	5,844 (1,781)	8,738 (2,663)	13,498 (4,114)		25,088 (7,647)			27600 (11 400)			
0.45 (11.43) 0.50 (12.70)	2,908 (886) 2,472 (753)	4,757 (1,450) 3,848 (1,173)	6,802 (2,073) 5,576 (1,700)	10,654 (3,247) 8,838 (2,694)	15,170 (4,624) 12,337 (3,760)	19,545 (5,957) 16,303 (4,969)		21,006 (6,403)				
0.55 (13.97)	1,883 (574)	3,078 (938)	4,541 (1,384)	6,656 (2,694) 7,297 (2,224)	9,930 (3,027)	12,887 (3,928)	17,191 (5,240)	17,033 (5,192)		32,856 (10,015)	30 025 (11 805)	
0.60 (15.24)	1,580 (482)	2,664 (812)	3,658 (1,115)	5,975 (1,821)	8,378 (2,554)	11,105 (3,385)	14,804 (4,512)			28,333 (8,636)		
0.65 (16.51)	1,317 (401)	2,078 (633)	3,177 (968)	4,834 (1,473)	7,023 (2,141)	9,535 (2,906)	12,710 (3,874)	12,174 (3,711)	17,794 (5,424)		28,199 (8,595)	36,623 (11,1
0.70 (17.78)	1,254 (382)	1,774 (541)	2,754 (839)	4,218 (1,286)	6,269 (1,911)	8,142 (2,482)	10,858 (3,310)	10,202 (3,110)	15,077 (4,595)	20,946 (6,384)	24,383 (7,432)	32,041 (9,76
0.75 (19.05)	1,038 (316)	1,698 (518)	2,379 (725)	3,670 (1,119)	5,183 (1,580)	6,902 (2,104)	9,214 (2,808)	9,087 (2,770)	13,514 (4,119)	17,895 (5,454)	21,007 (6,403)	27,978 (8,5)
0.80 (20.32)	847 (258)**	1,445 (440)	2,046 (624)	3,181 (970)	4,598 (1,401)	6,221 (1,896)	8,299 (2,530)	8,090 (2,466)	12,116 (3,693)		18,003 (5,487)	
0.85 (21.59)	814 (248)**	1,218 (371)	1,748 (533)	2,743 (836)	4,069 (1,240)	5,601 (1,707)	7,469 (2,277)	7,193 (2,192)	10,118 (3,084)	13,652 (4,161)	16,277 (4,961)	21,102 (6,43
0.90 (22.86)	654 (199)**	1,174 (358)**	1,679 (512)	2,639 (804)	3,589 (1,094)	4,653 (1,418)	6,220 (1,896)	6,381 (1,945)	9,018 (2,749)	12,263 (3,738)	14,713 (4,485)	19,217 (5,85
0.95 (24.13)	630 (192)** 609 (186)**	980 (299)** 948 (289)**	1,425 (434)	2,264 (690)	3,151 (960)	4,153 (1,266) 4,034 (1,230)	5,554 (1,693) 5,383 (1,641)	5,645 (1,721) 4,974 (1,516)	8,020 (2,444) 7,733 (2,357)	10,999 (3,352) 9,845 (3,001)	13,289 (4,050) 11,985 (3,653)	17,499 (5,33
1.00 (25.40) 1.05 (26.67)	(100)	781 (238)**	1,374 (419)	2,187 (667) 1,861 (567)	3,053 (931) 2,670 (814)	4,034 (1,230) 3,593 (1,095)	4,797 (1,462)	4,974 (1,516) 4,361 (1,329)	6,866 (2,093)	9,845 (3,001) 8,787 (2,678)	10,789 (3,288)	13,583 (4,14
1.10 (27.94)	*	758 (231)**	1,118 (341)	1,804 (550)	2,318 (707)	3,186 (971)	4,258 (1,298)	4,219 (1,286)	6,071 (1,850)	7,816 (2,382)	9,689 (2,953)	13,145 (4,0)
1.15 (29.21)	*	612 (187)**	927 (283)	1,519 (463)	2,255 (687)	2,810 (856)	3,761 (1,146)	3,682 (1,122)	5,342 (1,628)	7,573 (2,308)	8,674 (2,644)	11,911 (3,63
1.20 (30.48)	*	*	899 (274)	1,476 (450)	1,944 (593)	2,743 (836)	3,664 (1,117)	3,571 (1,088)	5,181 (1,579)	6,715 (2,047)	7,736 (2,358)	10,769 (3,2
1.25 (31.75)	*	*	873 (266)	1,225 (373)	1,895 (578)	2,406 (733)	3,219 (981)	3,096 (944)	4,534 (1,382)	6,523 (1,988)	7,515 (2,291)	9,708 (2,9
1.30 (33.02)	*	*	712 (217)	1,193 (364)	1,618 (493)	2,352 (717)	3,143 (958)	3,010 (917)	4,408 (1,344)	5,759 (1,755)	6,679 (2,036)	8,723 (2,65
1.35 (34.29)	*	*	693 (211)**	1,162 (354)**	1,580 (482)**	2,049 (625)**	2,743 (836)	2,588 (789)	3,832 (1,168)	5,052 (1,540)	6,502 (1,982)	8,492 (2,5
1.40 (35.56)	*	*	675 (206)**	948 (289)**	1,545 (471)**	2,007 (612)**	2,683 (818)	2,520 (768)	3,732 (1,138)	4,921 (1,500)	5,751 (1,753)	7,606 (2,3
1.45 (36.83)		*	537 (164)**	925 (282)**	1,304 (397)**	1,733 (528)**	2,323 (708)	2,458 (749)	3,640 (1,109)	4,799 (1,463)	5,609 (1,710)	7,419 (2,26
1.50 (38.10)	*	*	524 (160)**	904 (276)**	1,276 (389)**	1,699 (518)** 1,453 (443)**	2,274 (693)	2,091 (637)	3,138 (956)	4,182 (1,275)	4,932 (1,503)	6,618 (2,0
1.55 (39.37) 1.60 (40.64)	*	*	511 (156)** 500 (152)**	884 (269)** 703 (214)**	1,250 (381)** 1,039 (317)**	1,455 (445)	1,950 (594) 1,911 (582)	2,041 (622) 1,995 (608)	3,064 (934) 2,995 (913)	4,085 (1,245) 3,528 (1,075)	4,818 (1,469) 4,205 (1,282)	6,465 (1,9) 5,737 (1,74
1.65 (41.91)	*	*	489 (149)**	688 (210)**	1,019 (311)**	1,400 (427)**	1,875 (572)**	1,674 (510)	2,554 (778)	3,450 (1,052)	4,113 (1,254)	5,612 (1,71
1.70 (43.18)	*	*	*	*	*	*	1,841 (561)**	1,638 (499)	2,499 (762)	3,376 (1,029)	4,026 (1,227)	4,949 (1,50
1.75 (44.45)	*	*	*	*	*	*	1,559 (475)**	1,603 (489)	2,447 (746)	3,307 (1,008)	3,483 (1,062)	4,846 (1,47
1.80 (45.72)	*	*	*	*	*	*	1,531 (467)**	1,571 (479)	2,058 (627)	2,825 (861)	3,412 (1,040)	4,750 (1,44
1.85 (46.99)	*	*	*	*	*	*	1,505 (459)**	1,295 (395)	2,017 (615)	2,770 (844)	3,345 (1,020)	4,157 (1,26
1.90 (48.26)	*	*	*	*	*	*	1,255 (383)**	1,269 (387)	1,978 (603)	2,717 (828)	3,282 (1,000)	4,078 (1,24
1.95 (49.53)	*	*	*	*	*	*	1,235 (376)**	1,245 (379)	1,941 (592)	2,289 (698)	2,808 (856)	4,003 (1,22
2.00 (50.80)		*	*	*	*	*	1,215 (370)**	1,222 (372)	1,906 (581)	2,246 (685)	2,757 (840)	3,931 (1,19)
2.05 (52.07)	*	*	*	*	*	*	*	1,201 (366)	1,574 (480)	2,206 (672)	2,708 (825)	3,410 (1,03
2.10 (53.34) 2.15 (54.61)	*	*	*	*	*	*	*	966 (294) 949 (289)**	1,546 (471) 1,520 (463)	2,168 (661) 2,131 (650)	2,661 (811) 2,245 (684)	3,350 (1,0) 3,294 (1,00
2.20 (55.88)	*	*	*	*	*	*	*	933 (284)**	1,494 (455)	1,763 (537)	2,207 (673)	3,240 (98
2.25 (57.15)	*	*	*	*	*	*	*	917 (280)**	1,470 (448)	1,734 (529)	2,171 (662)	2,778 (84
2.30 (58.42)	*	*	*	*	*	*	*	902 (275)**	1,185 (361)	1,706 (520)	2,137 (651)	2,734 (83
2.35 (59.69)	*	*	*	*	*	*	*	888 (271)**	1,166 (355)	1,679 (512)	2,104 (641)	2,692 (82
2.40 (60.96)	*	*	*	*	*	*	*	875 (267)**	1,148 (350)	1,653 (504)	1,742 (531)	2,651 (80
2.45 (62.23)	*	*	*	*	*	*	*	680 (207)**	1,130 (344)**	1,629 (497)	1,716 (523)	2,241 (68
2.50 (63.50)	*	*	*	*	*	*	*	670 (204)**	1,114 (340)**	1,605 (489)	1,690 (515)	2,207 (67
2.55 (64.77)	*	*	*	*	*	*	*	660 (201)**	1,097 (334)**	1,295 (395)	1,666 (508)	2,176 (663
2.60 (66.04)	*	*	*	*	*	*	*	650 (198)** 641 (195)**	1,082 (330)**	1,277 (389)	1,642 (500)	2,145 (654
2.65 (67.31) 2.70 (68.58)	*	*	*	*	*	*	*	041 (195) *	1,067 (325)** 832 (254)**	1,259 (384)** 1,241 (378)**	1,619 (493) 1,598 (487)	2,115 (645 2,087 (63
2.75 (69.85)	*	*	*	*	*	*	*	*	820 (250)**	1,224 (373)**	1,291 (393)	2,087 (63
2.80 (71.12)	*	*	*	*	*	*	*	*	809 (247)**	1,224 (373)	1,273 (388)	1,708 (52
2.85 (72.39)	*	*	*	*	*	*	*	*	798 (243)**	1,193 (364)**	1,257 (383)**	1,685 (51
2.90 (73.66)	*	*	*	*	*	*	*	*	788 (240)**	1,178 (359)**	1,240 (378)**	1,664 (50
2.95 (74.93)	*	*	*	*	*	*	*	*	777 (237)**	919 (280)**	1,225 (373)**	1,643 (50
3.00 (76.20)	*	*	*	*	*	*	*	*	768 (234)**	907 (276)**	1,210 (369)**	1,623 (49
3.05 (77.47)	*	*	*	*	*	*	*	*	*	896 (273)**	1,195 (364)**	1,603 (48
3.10 (78.74)	*	*	*	*	*	*	*	*	*	885 (270)**	1,181 (360)**	1,584 (48
3.15 (80.01)	*	*	*	*	*	*	*	*	*	874 (266)**	1,167 (356)**	1,282 (39
3.20 (81.28) 3.25 (82.55)	*	*	*	*	*	*	*	*	*	864 (263)** 854 (260)**	911 (278)** 900 (274)**	1,267 (38)
3.30 (83.82)	*	*	*	*	*	*	*	*	*	0J4 (200) *	900 (274) 890 (271)**	1,232 (382
3.35 (85.09)	*	*	*	*	*	*	*	*	*	*	890 (271)	1,238 (377)
3.40 (86.36)	*	*	*	*	*	*	*	*	*	*	870 (265)**	1,210 (369)
3.45 (87.63)	*	*	*	*	*	*	*	*	*	*	860 (262)**	1,197 (365)
3.50 (88.90)	*	*	*	*	*	*	*	*	*	*	851 (259)**	1,184 (361)
3.55 (90.17)	*	*	*	*	*	*	*	*	*	*	*	1,172 (357)
		*				*				*	*	

*Drum diameter is less than 12 times the cable diameter (minimum bend radius). **Drum diameter is less than 15 times the cable diameter (recommended bend radius). This chart applies to round cable only. Chart shows maximum calculated capacity. Actual available cable lengths may be less than capacity. Capacity is based on 2 inch clearance.

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PRICE, CHARGES AND PAYMENT

Orders are not binding upon Seller until accepted by Seller in its sole discretion. No order submitted by Buyer shall be deemed accepted by Seller unless and until either confirmed in writing by Seller or by delivery of the Product specified in the order, and then only on these Terms. Seller may modify Buyer's order where necessary as follows: (a) substituting the latest or correct part number or part description for the part number or part description set forth on the order; (b) substituting Seller's prices in effect as applicable to the order; (c) substituting an estimated delivery schedule which is reasonable (considering Seller's stock availability and lead time); and (d) correcting any stenographical or typographical error. The price of any Product sold to Buyer shall be Seller's price in effect at time of order entry. Prices for energy cable products will be adjusted at the time of shipment to reflect the closing COMEX metal price on the date prior to the ship date. Seller's current ancillary charges apply as applicable to the order such as parallel, cut, wood lagging, gas pressure, pulling eye and lift gate charges

Fees for and relating to the Products are subject to adjustment in the event there are cost increases created by circumstances such as, but not limited to, changes in government energy policies, fuel and energy increases, metal premium or metal processing charges, chemical or material price increases, material and supply shortages, transportation and shipping costs. Any accepted order requiring special manufacturing processes, inspection, specified weight, packaging, test results, certification, etc., is subject to additional charges.

Unless otherwise agreed to by Seller in writing, Buyer agrees to pay all amounts due to Seller within thirty (30) days from the date of invoice. Overdue payments shall bear interest and service charges from the due date until paid at a rate of 1.5% (.015) per month or the maximum legal rate, whichever is less, and any collection costs of Seller. FAILURE TO PAY ANY AMOUNT WHEN DUE VOIDS ALL WARRANTIES.

Credit is extended at the sole discretion of Seller. If credit has been extended, the amount of credit may be changed or credit withdrawn by Seller at any time, in its sole discretion. If a cash discount is stipulated, it is subject to Buver's entire account being current. Any discounts given to Buyer by Seller in relation to the price of the Products are conditional upon payment for the Products being made strictly in accordance with the Sales Agreement and these Terms and to Buyer's entire account for all products purchased from Seller being current.

DELIVERY, TITLE, RISK OF LOSS, AND SHIPPING OF PRODUCTS 3.

Title to and risk of loss of the Products shall pass to Buyer upon tender of such Products to Buyer at Seller's factory or a common carrier. Unless otherwise agreed by Seller in writing, shipping terms shall be Ex Works (Incoterms 2010) Seller's factory or warehouse. Seller's weights shall govern provisional and final settlement. Any shipping date provided by Seller is the Seller's best estimate and will not operate to bind Seller to ship or make deliveries on such date. All shipments shall be subject to Seller's then current shipment terms, including its Freight Policies, Freight Damage Policies, and minimum order values

Buyer must thoroughly inspect the Products at the time of receipt for signs of damage, discrepancies or a shortage. Inspections of the Products at the time of delivery shall be commenced in the presence of the carrier's driver and Buyer shall note on the freight bill any shortages, discrepancies or damages of any Product received on the carrier's receipt. If concealed oss or damage is discovered, Buyer must report it to the carrier within 15 days from the date of receipt.

LIMITED WARRANTIES AND DISCLAIMERS Seller warrants to Buyer that at the time of delivery the Products will conform substantially to Seller's specifications identified in the applicable Product Data Sheets ("Specifications"). As Buyer's sole and exclusive remedy and Seller's entire liability for any breach of the foregoing warranty. Seller will, at its sole option and expense, either refund the purchase price paid, repair or replace the Product which fails to meet this warranty upon return of the nonconforming Product; provided, Buyer notifies Seller of noncompliance in writing:

- (i) for Fiber to the Premises Closure Products ("FTTP"), within ten (10) years of delivery for external plastic and metal parts of the closure and within one (1) year of delivery for internal fiber splice, attachment and management components; and
- (ii) for all other Products, within one (1) year of delivery of such Product.

Transportation charges to and from Seller's location for the return of all nonconforming Products to Seller and their re-shipment to Buyer and the risk of loss thereof will be borne by Seller. Buyer shall use Seller's designated carrier for all re-shipments. These warranties do not apply to any Product that was not properly stored or handled by the Buyer, that was repaired or altered or was otherwise subject to abuse, neglect or improper use by Buyer or a third party, or that has any stage of processing performed on it which causes the defect. EXCEPT WITH RESPECT TO THE SPECIFIC WARRANTIES SET FORTH IN THIS SECTION 4 OF THESE TERMS, SELLER MAKES NO OTHER WARRANTIES WHATSOEVER, EXPRESS OR IMPLIED, REGARDING THE PRODUCTS OR PERFORMANCE OF ITS OBLIGATIONS HEREUNDER, AND SPECIFICALLY DISCLAIMS ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Without limitation, under no circumstances shall Seller be liable for any costs associated with reworking, re-manufacturing or scrapping goods in which defective Product supplied by Seller was incorporated, for any costs associated with production stoppages, machinery breakdown or recall campaigns, or for any troubleshooting, administrative or engineering charges.

CLAIMS OF PATENT INFRINGEMENT 5.

duct, at its own expense, the entire defense of any claim, suit, action or other proceedings ("Claim") brought against Buyer by a third party alleging that any Product manufactured by Seller infringes upon any United States patent of any third party; provided, however: (i) Seller receives prompt written notice of the Claim; (ii) Seller has full control of the defense and all related settlement negotiations; (iii) the Products are made according to a specification or design furnished by Seller, or if a process patent is involved, the process performed by the Products are recommended in writing by Seller; and (iv) Buyer provides Seller with all necessary assistance, information and authority to perform the defense and negotiate settlement thereof. Provided all four of the foregoing conditions are met, Seller shall, at its own expense, either settle said Claim or shall pay all damages (excluding incidental, consequential, statutory, or punitive damages) and costs awarded by the court therein. If the use or resale of such Products is finally enjoined. Seller shall, at Seller's option, procure for Buyer the right to use or resell the Products, replace them with equivalent non-infringing Products, modify them so they become non-infringing but equivalent, or remove them and refund the purchase price (less a reasonable allowance for use, damage or obsolescence). Buyer shall indemnify and hold Seller harmless from all Claims based upon (i) the use of a Product customized for Buyer based on Buyer's ideas, specifications or designs, (ii) the performance of a process performed by the Products not recommended in writing by Seller, or (iii) the use or sale of the Products delivered hereunder in combination with other products not delivered to Buyer by Seller.

EXCUSABLE PERFORMANCE

Seller is excused from performing any of its obligations under these Terms, any order or Sales Agreement if its performance is prevented, hindered or delayed by delays of suppliers, acts of God, nature, governments or their agencies, terrorism, war or sabotage, compliance in good faith with any applicable foreign or domestic governmental regulation or order (whether or not it proves to be invalid), fires, riots, inability to supply or obtain , products, materials, raw materials, supplies, fuel or utilities from normal sources of supply, labor disputes, work stoppages, lockouts, delays in transportation, earthquakes, floods, storms or other severe weather conditions, power shortages or power failures or any other events or circumstances beyond Seller's reasonable control (an "Event"). To the extent an Event delays Seller's performance, such performance shall be extended for as many days beyond the due date until the delay concludes; provided, however, if Seller is unable to perform any of its obligations under any order due to an Event for more than thirty (30) days, it may in its sole option terminate, without liability or penalty, any Sales Agreement, order or obligation in whole or in part. It is expressly understood that the Seller has available a limited source for the materials used by Seller in the manufacture of the Products. If there is an interference, limitation or cessation of any material from Seller's source of supply for any reason, Buyer agrees to relieve the Seller temporarily, proportionately, or permanently of liability under these Terms or any Sales Agreement or order, depending upon whether the interruption of the source of supply is a temporary interruption, a reduced delivery of materials, or a permanent cessation of supply. In the event there is a Product shortage pursuant to this section, Seller may ration and distribute such Products as it deems appropriate.

TAXES AND EXPORTS

Any and all taxes (not including any U.S. income or excess profit taxes attributable to Seller) which may be imposed by any taxing authority, arising from the sale, delivery or use of the Products and for which Seller may be held responsible for collection or payment, either on its own behalf or that of Buyer, shall be paid by Buyer to Seller upon Seller's demand. Export orders are subject to applicable export regulations and requirements. Buyer disclaims in favor of Seller any right or interest in, the drawback of duty, taxes or surcharges paid on imported material contained in the Products.

8. FINANCIAL RESPONSIBILITY OF BUYER

Buyer's solvency is a condition of Seller's performance and Seller may, at any time, in its sole discretion for credit reasons (including a good faith belief that a current or future payment is or may be impaired) or because of Buyer's breach of this or any other agreement with Seller, suspend or change credit terms, fix a limit on credit, require progress payments, demand payment in full of any outstanding balance, withhold shipments, demand COD or request other assurances of payment, cancel or terminate any order or agreement or repossess all Products previously delivered, which Products shall become the absolute property of Seller subject to credit therefore. Buyer grants to Seller a security interest in Products delivered hereunder to secure Buyer's obligations under these Terms and any Sales Agreement and grants to Seller the right to execute, deliver, and/or file any financing statement or do any other thing reasonably necessary to perfect Seller's security interest. Notwithstanding any other provision of these Terms, Seller reserves the right in its absolute discretion from time to time to require payment in full of the price of the Products before delivery of all or any of the Products.

Seller may terminate any order or Sales Agreement by written notice to Buyer if (i) a receiver or trustee is appointed for any of Buyer's property; (ii) Buyer is adjudicated or voluntarily becomes bankrupt or a debtor under any bankruptcy, dissolution or reorganization laws or similar law; (iii) Buyer becomes insolvent or makes an assignment for the benefit of creditors; (iv) an execution is issued pursuant to a judgment rendered against Buyer; or (v) Buyer is unable or refuses to make payment to Seller. If any order or Sales Agreement is terminated by Seller pursuant to this section, Seller shall be relieved of any further obligation to Buyer and Buyer shall reimburse Seller for its termination costs and expenses and a reasonable allowance for profit.

In addition to any right of set off or recoupment provided by law. Buver agrees that all its accounts with Seller will be administered on a net settlement basis and that Seller may set off debits and credits, including Seller's attorney fees and costs of enforcement, against any of Buyer's accounts regardless of the basis for such debits and credits and without advance notice. In this section, "Seller" includes Seller's parent, subsidiaries and affiliates, and "Buyer" includes Buyer's parent, subsidiaries and affiliates.

CANCELLATIONS AND RETURNS

All orders accepted by Seller are non-cancelable unless (i) such order is cancelled in writing thirty (30) days prior to the scheduled ship date and (ii) the Products ordered were not manufactured as special or customized items. A cancellation fee of 10% of the quoted price shall apply. If paid for, cancelled Products may be returned for credit only. Return of any Product must be authorized by Seller. Seller will provide Buyer a Return Material Authorization number which must be shown on the returned Product and associated shipping documents. Standard stock items are returnable at invoice price less a 20% restocking charge, freight prepaid by Buyer to the plant of manufacture or Seller's designated location. Non-stock items and/ or special items are not subject to return. All material must be returned to Seller undamaged and in the original packaging.

10. CHANGES - PROCESS, MATERIAL AND PRODUCT DESIGN

Seller continually develops and uses new processes, materials and product designs in an effort to improve its Products, while maintaining conformity to the Specifications. If Buyer's applications of the Products rely upon any performance, dimensional or constant criteria other than as required by the applicable Specifications, Buyer must conduct regular testing or evaluation of those specific Products. Seller makes no warranty or representation of any nature that any material shipped conforms to any material of like product description as may have previously been delivered to Buyer.

11. LIMITATION OF LIABILITY

IN NO EVENT WILL SELLER BE LIABLE TO BUYER FOR ANY INDIRECT, INCIDENTAL, SPECIAL, PUNITIVE, DELAY, OR CONSEQUENTIAL DAMAGES, INCLUDING WITHOUT LIMITATION, LOSS OF DIRECT OR INDIRECT PROFITS, REVENUE, OR USE, WHETHER ARISING IN CONTRACT, TORT, OR OTHERWISE, EVEN IF BUYER OR ANY OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT WILL SELLER'S AGGREGATE LIABILITY TO BUYER EXCEED ALL AMOUNTS ACTUALLY PAID BY BUYER TO SELLER. THESE LIMITATIONS SHALL APPLY NOTWITHSTANDING ANY FAILURE OF ESSENTIAL PURPOSE OF THE LIMITED REMEDY SET FORTH IN SECTION 4.

12. CONFIDENTIALITY

Buyer will not disclose to third persons any proprietary or confidential information of Seller concerning its business and operations, including without limitation, pricing information, for a period of five (5) years from the date such confidential information was learned or for confidential information meeting the definition of "trade secret" under applicable law, until such information is no longer a "trade secret." The obligations of confidentiality in this Section 12 do not apply to Confidential Information to the extent that the Confidential Information becomes readily ascertainable by proper means by the public other than through breach of this Section 12 by Buyer.

13. CHOICE OF LAW

These Terms and all accepted orders shall be construed in accordance with the laws of the State of Georgia, United States of America without regard to its conflict of law principles. Buyer agrees that any and all disputes with Seller, including contract and tort claims, shall be resolved in the state and federal courts situated in Georgia, and that these courts shall have the exclusive jurisdiction over all such disputes and Buyer consents to the personal jurisdiction in these courts. Any action brought by Buyer against Seller shall be within one (1) year after the cause of action arises or it shall be deemed forever waived.

14. ADDITIONAL TERMS

The provisions of these Terms and the Sales Agreement, if any, constitute the entire agreement between Buyer and Seller with respect to the matter contained herein and supersedes any prior oral or written communications, understanding representations, proposals or agreements with respect to such subject matter. Seller may revise these Terms from time to time. These Terms may not be amended or modified by the Buyer except upon the execution of a written agreement signed by both parties indicating an intent to modify these Terms. Neither Buyer nor Seller may assign any of its rights or obligations hereunder or under any order; provided, however, that Seller shall be permitted to assign any of its rights or obligations under these Terms, Sales Agreement or any order in connection with the sale or transfer of all or substantially all of its business, whether by merger, reorganization, consolidation, transfer of assets, transfer of equity interests, or otherwise. If any provision of these Terms or a Sale Agreement is invalid, unenforceable or in conflict with any law, such provision shall be deemed severed from these Terms and/or the Sale Agreement and the validity of the remainder of these Terms and/or the Sale Agreement shall not be affected thereby. The provisions of these Terms that by their nature are reasonably intended by the parties to survive the expiration or termination of the Terms or any accepted order, including without limitation sections 4, 5, 11, 12, 13 and this section 14, shall survive the expiration or termination of the Terms or any accepted order.

All information, content, data, specifications, packaging and part numbers detailed herein are subject to change. For the most up-to-date information, please visit SuperiorEssex.com. Purchase of this product is subject exclusively to the then current **SuperiorEssex.International LP Terms and Conditions of Sale for Communications and Energy Cable, Wire and Connectivity Products**, which can be found on our website, SuperiorEssex.com, or provided to you upon request.



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