



### PRODUCT DESCRIPTION

Category 5e Plenum (CMP) ideal for voice, video and security communications medium for your network installation. Manufactured to the highest standards and approved by organizations such as UL and ETL and when compared to TIA guidelines it meets or surpasses in all categories. It has 24-gauge solid bare copper conductors organized into four color coded twisted pairs which are insulated with high density polyethylene insulation. With a CMP rated jacket for Plenum rates spaces and Cat 5e CMP cable is easy to use during installations and pulls smoothly with no kinks.

### USAGE & ENVIRONMENTAL CONDITION

Temperature range	Storage & shipping	-20°C to 75°C
	Installation	0°C to 60°C
	Operation	-20°C to 60°C
Minimum bending radius	≥ 4 times of overall diameter	
Maximum pulling tension	≤ 110 N	

### APPLICATIONS

- Structured cabling for horizontal and building backbone cable.
- Transmission of digital and analogue for data, video and audio applications.
- IEEE 802.3u 100BASE-T and legacy speeds.
- CDDI / ATM / Token Ring
- IEEE 802.3af (PoE) / IEEE 802.3at (PoE+)

### PERFORMANCE COMPLIANCE

- ANSI/TIA-568-C.2 (2009)
- ISO/IEC 11801 (Edition 2.2), IEC 61156-5 (Edition 2.0)
- Flame Test - NFPA 262 (CMP)
- UL 444, CSA 22.2 NO.214
- EU Directive 2011/65/EC (RoHS2)
- EU Directive 2006/95/EC (LVD)
- CE compliance date: 2010.01.01

### PHYSICAL & ELECTRICAL CHARACTERISTICS

At 20 °C	
Temperature & voltage rating	75°C / 300V
Spark test	2.5 KV DC
AC leakage current through overall jacket	≤ 10mA (1.5KV AC)
Cable cold bend	-20°C for 4 hr
Conductor DC resistance	≤ 9.38 Ω/100m
Resistance unbalance	≤ 5%
Dielectric strength	1.5 KV ac for 2 s
Insulation resistance	≥ 5000 MΩ•m
Mutual capacitance	≤ 5.6 nF/100m
Capacitance unbalance pair-to-ground	≤ 330 pF/100m

### FEATURES

- Award winning trademarked packaging
- High performance of transmission
- High quality of safety property
- Sweep frequency up to 350 MHz (Enhanced)
- verified to 100 MHz
- Meets/exceeds ANSI/TIA-568-C.2 specification
- Meets ISO/IEC 11801 (Edition2.2)
- Meets IEC 61156-5 (Edition2.0)
- WideMouth and Reelex carton
- Quick Count marking system in feet

Available in ten different jacket colors



## ELECTRICAL PERFORMANCE COMPARISON (At 20 °C)

Frequency (MHz)	INSERTION LOSS		NEXT		PS.NEXT		ACR	
	TIA-568-C.2	Hyperline	TIA-568-C.2	Hyperline	TIA-568-C.2	Hyperline	TIA-568-C.2	Hyperline
	Max. dB/100m	Max. dB/100m	Max. dB/100m	Max. dB/100m	Max. dB/100m	Max. dB/100m	Max. dB/100m	Max. dB/100m
1	2.0	2.0	65.3	66.3	62.3	63.3	63.3	63.2
4	4.1	4.0	56.3	57.2	53.3	54.2	52.2	52.2
8	5.8	5.7	51.8	52.7	48.8	49.7	46.0	45.9
10	6.5	6.4	50.3	51.3	47.3	48.3	43.8	43.8
16	8.2	8.2	47.2	48.2	44.2	45.2	39.0	38.9
20	9.3	9.2	45.8	46.7	42.8	43.7	36.5	36.5
25	10.4	10.4	44.3	45.3	41.3	42.3	33.9	33.9
31.25	11.7	11.7	42.9	43.8	39.9	40.8	31.2	31.1
62.5	17.0	16.9	38.4	39.3	35.4	36.3	21.4	21.3
100	22.0	21.9	35.3	36.3	32.3	33.3	13.3	13.3
150		27.5		33.6		30.6		5.1
200		32.4		31.7		28.7		N.A.
250		36.8		30.3		27.3		N.A.
300		40.9		29.1		26.1		N.A.
350		44.8		28.1		25.1		N.A.

Frequency (MHz)	PS.ACR		ACRF		PS.ACRF		RETURN LOSS	
	TIA-568-C.2	Hyperline	TIA-568-C.2	Hyperline	TIA-568-C.2	Hyperline	TIA-568-C.2	Hyperline
	Max. dB/100m	Max. dB/100m	Max. dB/100m	Max. dB/100m	Max. dB/100m	Max. dB/100m	Max. dB/100m	Max. dB/100m
1	60.3	60.2	63.8	63.8	60.8	60.8	20.0	20.0
4	49.2	49.2	51.8	51.7	48.8	48.7	23.0	23.0
8	43.0	42.9	45.7	45.7	42.7	42.7	24.5	24.5
10	40.8	40.8	43.8	43.8	40.8	40.8	25.0	25.0
16	36.0	35.9	39.7	39.7	36.7	36.7	25.0	25.0
20	33.5	33.5	37.8	37.7	34.8	34.7	25.0	25.0
25	30.9	30.9	35.8	35.8	32.8	32.8	24.3	24.3
31.25	28.2	28.1	33.9	33.9	30.9	30.9	23.6	23.6
62.5	18.4	18.3	27.9	27.8	24.9	24.8	21.5	21.5
100	10.3	10.3	23.8	23.8	20.8	20.8	20.1	20.1
150		2.1		20.2		17.2		18.8
200		N.A.		17.7		14.7		18.0
250		N.A.		15.8		12.8		17.3
300		N.A.		14.2		11.2		16.7
350		N.A.		12.9		9.9		16.3

Values above 100MHz are for information only.



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## ELECTRICAL SPECIFICATIONS (At 20 °C)

Frequency (MHz)	Propagation Delay	
	TIA-568-C.2	Hyperline
	Max. dB/100m	Max. dB/100m
1	570	570
4	552	552
8	547	546
10	545	545
16	543	543
20	542	542
25	541	541
31.25	540	540
62.5	539	538
100	538	537
150		536
200		536
250		536
300		536
350		535

Values above 100MHz are for information only.

## MATERIALS & CONSTRUCTION

Conductor	Material	24AWG solid bare copper	
Insulation	Material of dual layer	Polyolefin (PO)	
	Color code & diameter	Blue & white/blue stripe	0.85 ± 0.02 mm
		Orange & white/orange stripe	0.86 ± 0.02 mm
		Green & white/green stripe	0.87 ± 0.02 mm
		Brown & white/brown stripe	0.87 ± 0.02 mm
Material of single layer	Fluorinated Ethylene Propylene (FEP)		
Rip cord	Material	Polyester multi-yarn	
Twisted	Description	Left hand direction	
Assembly	Description	Left hand direction	
Jacket	Material	Low smoke flame retardant polyvinyl chloride (LSFRPVC)	
	Diameter	4.5 ± 0.2 mm	
	Thickness	0.38 ± 0.03 mm	
	Color	Per Hyperline standard	



## MATERIALS & CONSTRUCTION

Rip cord	Material	Polyester multi-yarn
Nominal Velocity of Propagation	(NVP) 72%	
NRTL Program	c(UL)us listed CMP ETL Verified / CSA certified	
Marking	Hyperline UTP4-C5E-SOLID-CMP---- E303448-F U/UTP 4PR 24AWG C(UL)US CMP --- ETL VERIFIED TO ANSI/TIA-568-C.2 CAT 5E 350MHz ##### WW/YY1 XXXXFT-A Note 1: WW/YY is date code.	

## ORDERING

Part Number	Product Description
UTP4-C5E-SOLID-CMP-WH-305	Category 5e Plenum, UTP, 24 AWG, White 305 Meter/1000 FT Pull Box
UTP4-C5E-SOLID-CMP-BL-305	Category 5e Plenum, UTP, 24 AWG, Blue 305 Meter/1000 FT Pull Box
UTP4-C5E-SOLID-CMP-GY-305	Category 5e Plenum, UTP, 24 AWG, Grey 305 Meter/1000 FT Pull Box
UTP4-C5E-SOLID-CMP-OR-305	Category 5e Plenum, UTP, 24 AWG, Orange 305 Meter/1000 FT Pull Box
UTP4-C5E-SOLID-CMP-GN-305	Category 5e Plenum, UTP, 24 AWG, Green 305 Meter/1000 FT Pull Box
UTP4-C5E-SOLID-CMP-VT-305	Category 5e Plenum, UTP, 24 AWG, Violet 305 Meter/1000 FT Pull Box
UTP4-C5E-SOLID-CMP-BK-305	Category 5e Plenum, UTP, 24 AWG, Black 305 Meter/1000 FT Pull Box
UTP4-C5E-SOLID-CMP-YL-305	Category 5e Plenum, UTP, 24 AWG, Yellow 305 Meter/1000 FT Pull Box
UTP4-C5E-SOLID-CMP-RD-305	Category 5e Plenum, UTP, 24 AWG, Red 305 Meter/1000 FT Pull Box
UTP4-C5E-SOLID-CMP-PK-305	Category 5e Plenum, UTP, 24 AWG, Pink 305 Meter/1000 FT Pull Box



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