

Indoor / Outdoor

2, 6 & 12-fiber, 2 Copper Conductors

Product Highlights

- REACH & RoHS 2 compliant
- Made in U.S.A.
- Extending PoE and Limited Power SELV data transmission beyond 100 meters
- Provides immunity from electromagnetic and radio frequency interference
- Choice of separate power conductors eliminates concerns associated with heat generation and length derating calculations as required by TIA 568 and NEC
- Plenum and outdoor rating permits use in a wide range of environments
- Dry, super absorbent polymers (SAPs) eliminate water migration in cable interstices
- Suitable for lashed aerial, duct underground conduit and indoor plenum applications
- All multimode and singlemode cables (except OM1) utilize bend-insensitive optical fibers
- Easy to strip and terminate
- Lightweight, flexible aramid yarns throughout the design enhance strength
- Each 900um buffered fiber resides in a 2mm subunit for easy termination to LC, SC connectors and more

Options

- Available with 2, 6 or 12 strands of tight buffered fiber
- Available with 1 pair of 12, 14, 16, 18, 20 or 22 AWG stranded conductors

Applications

- High noise areas and extended distance
- Security CCTV Cameras
- Wireless Access Points
- Distributed Antenna Systems (DAS)
- Passive Optical Networks (PON)
- Ideal for all remote powered applications

Standards

- NEC CL2P-OF rating, compliant with Class 2 SELV (Safety Extra Low Voltage)
- NFPA 262
- ANSI/TIA-568.3-D

Power+™ Composite (Indoor/Outdoor Plenum)

(UL) OFCP c(UL) OFCP FT6

22 AWG	FIBERS	CABLE O.D. (mm)	62.5 UM OM1	50 UM OM2	50 UM OM3	50 UM OM4	8.3 UM OS2
	2	5.8	62860-4	62861-4	62862-4	62863-4	62859-4
6	8.0	62860-8	62861-8	62862-8	62863-8	62859-8	
12	10.2	62860-14	62861-14	62862-14	62863-14	62859-14	

20 AWG	FIBERS	CABLE O.D. (mm)	62.5 UM OM1	50 UM OM2	50 UM OM3	50 UM OM4	8.3 UM OS2
	2	6.2	62866-4	62867-4	62868-4	62869-4	62865-4
6	8.4	62866-8	62867-8	62868-8	62869-8	62865-8	
12	10.5	62866-14	62867-14	62868-14	62869-14	62865-14	

18 AWG	FIBERS	CABLE O.D. (mm)	62.5 UM OM1	50 UM OM2	50 UM OM3	50 UM OM4	8.3 UM OS2
	2	6.8	62872-4	62873-4	62874-4	62875-4	62871-4
6	8.4	62872-8	62873-8	62874-8	62875-8	62871-8	
12	10.2	62872-14	62873-14	62874-14	62875-14	62871-14	

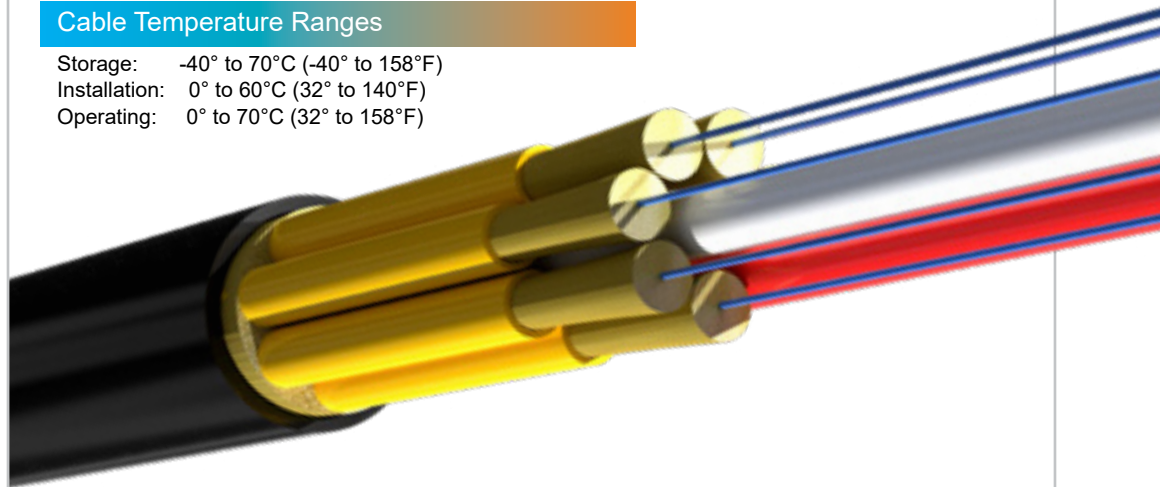
16 AWG	FIBERS	CABLE O.D. (mm)	62.5 UM OM1	50 UM OM2	50 UM OM3	50 UM OM4	8.3 UM OS2
	2	7.1	62878-4	62879-4	62880-4	62881-4	62877-4
6	8.4	62878-8	62879-8	62880-8	62881-8	62877-8	
12	10.5	62878-14	62879-14	62880-14	62881-14	62877-14	

14 AWG	FIBERS	CABLE O.D. (mm)	62.5 UM OM1	50 UM OM2	50 UM OM3	50 UM OM4	8.3 UM OS2
	2	7.4	62884-4	62885-4	62886-4	62887-4	62883-4
6	9.2	62884-8	62885-8	62886-8	62887-8	62883-8	
12	10.8	62884-14	62885-14	62886-14	62887-14	62883-14	

12 AWG	FIBERS	CABLE O.D. (mm)	62.5 UM OM1	50 UM OM2	50 UM OM3	50 UM OM4	8.3 UM OS2
	2	7.7	62890-4	62891-4	62892-4	62893-4	62889-4
6	10.1	62890-8	62891-8	62892-8	62893-8	62889-8	
12	11.3	62890-14	62891-14	62892-14	62893-14	62889-14	

Cable Temperature Ranges

Storage: -40° to 70°C (-40° to 158°F)
 Installation: 0° to 60°C (32° to 140°F)
 Operating: 0° to 70°C (32° to 158°F)



Power+™ Multimode and Singlemode Composite

SPECIFICATION BY FIBER COUNT

CONDUCTORS		# OF FIBERS	CABLE O.D.		RECOMMENDED MAXIMUM LOADS				CABLE WEIGHT	
#	AWG		inches	mm	INSTALL		OPERATION		lbs/kft	kg/km
					lbf	N	lbf	N		
2	22	2	0.229	5.8	180	800	54	240	27.3	40.7
2	22	6	0.314	8.0	180	800	54	240	46.3	69.0
2	22	12	0.400	10.2	180	800	54	240	71.7	106.8
2	20	2	0.243	6.2	180	800	54	240	31.7	47.2
2	20	6	0.333	8.4	180	800	54	240	52.8	78.7
2	20	12	0.413	10.5	180	800	54	240	77.2	115.0
2	18	2	0.268	6.8	180	800	54	240	41.0	61.2
2	18	6	0.329	8.4	180	800	54	240	60.4	90.0
2	18	12	0.403	10.2	180	800	54	240	82.5	123.0
2	16	2	0.279	7.1	180	800	54	240	37.7	56.2
2	16	6	0.329	8.4	180	800	54	240	55.0	82.0
2	16	12	0.415	10.5	180	800	54	240	78.8	117.4
2	14	2	0.291	7.4	180	800	54	240	57.2	85.2
2	14	6	0.363	9.2	180	800	54	240	77.4	115.3
2	14	12	0.427	10.8	180	800	54	240	96.6	143.9
2	12	2	0.302	7.7	180	800	54	240	75.4	112.3
2	12	6	0.398	10.1	180	800	54	240	98.0	146.1
2	12	12	0.444	11.3	180	800	54	240	116.8	174.0

HYBRID



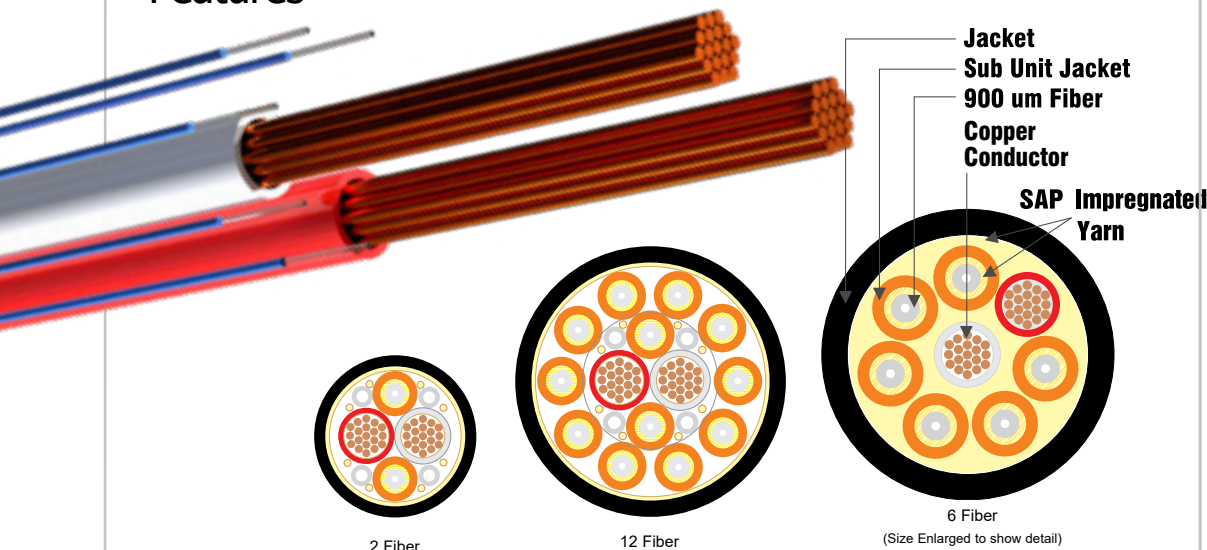
Optical Specifications

TIA-568.3-D | ISO/IEC 11801, 2nd edition | Telcordia GR-409-CORE

Fiber type	Max. Attenuation (dB/km)		Min OFL Bandwidth (MHz-km)		Min EMBc Bandwidth (MHz-km)		Gb Ethernet distance (m)		10 Gb Ethernet distance(m)	
	850nm (MM)	1300nm (MM)	850nm (MM)	1300nm (MM)	850nm (MM)	1300nm (MM)	850nm (MM)	1300nm (MM)	850nm (MM)	1310nm (SM)
OM1	3.5	1.0	200	500	220	N/A	300	550	33	N/A
OM2	3.0	1.0	700	500	950	N/A	750	550	150	N/A
OM3	3.0	1.0	1500	500	2000	N/A	1000	550	300	N/A
OM4	3.0	1.0	3500	500	4700	N/A	1100	550	550	N/A
OM5*	3.0	1.0	3500	500	4700	N/A	1100	550	550	N/A
		1550nm (SM)	1310nm (SM)	1550nm (SM)	1310nm (SM)	1550nm (SM)	1310nm (SM)	1550nm (SM)	1310nm (SM)	
OS2	0.5	0.5	N/A	N/A	N/A	N/A	> 25,000	> 40,000	10,000 - 25,000	40,000

*OM5 optical fiber tested by glass manufacturer and exceeds the requirements of all applicable industry standards.

Features



Hitachi Cable America reserves the right to revise any specifications.