

Berk-Tek's Interconnect Tight Buffered Plenum fiber optic cable is designed for installation along plenums and in riser horizontal structured cabling applications.

DESCRIPTION

Berk-Tek's Plenum Interconnect Tight Buffered cables are available with standard multimode, single-mode, and GIGAlite™ optical fibers.

Construction

900 um buffered fibers surrounded by aramid yarns. Sheathed using a special state-of-the-art, polymer material.

All Dielectric. OFNP (UL or ETL) OFNP FT-6 c(UL or ETL)

Applications

Berk-Tek's Interconnect Tight Buffered Cable is intended for all high speed data applications including:

- ETHERNET: 10BASE – 40GBASE (10BASE, 100BASE, 1000BASE, 10GBASE, 40GBASE, 100GBASE, 400GBASE)
- Fibre Channel: 1G-FC – 128GFC (1, 2, 4, 8, 16, 32, 128 GFC)
- SONET: OC-1 – OC-768 (OC -1, 3, 12, 24, 48, 192, 768)
- SDH: STM-0 – STM-256 (STM-0, 1, 4, 16, 64, 256)
- OTN: OTU-1 – OTU4 (OTU1, 2, 2e, 2f, 3, 3e2, 4)
- CPRI: CPRI-1 – CPRI-9 (CPRI-1, 2, 3, 4, 5, 6, 7, 7a, 8, 9)
- PON (SMF ONLY): RfOG, APON, BPON, EPON, GPON, WDM-PON, NG-PON

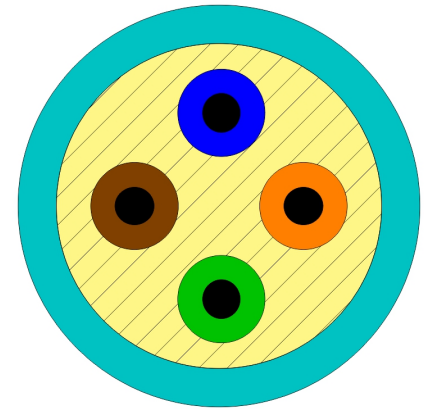
Features

- Flexible, small diameter, 900 um tight buffered construction
- High tensile strength and small diameter design
- 1 through 4 fiber designs for patch cable and horizontal installations

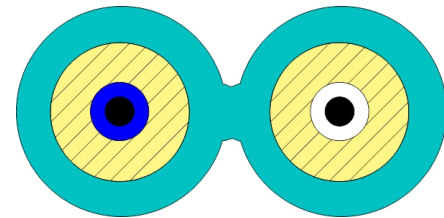
Benefits

- Also available in low-smoke zero-halogen design
- Cost-saving design is easy to install and terminate
- Space-saving design allows for dense cable installations

Country of Origin: U.S.A.



For fiber counts from 1-4



For 2 fiber duplex

STANDARDS

International 448-010-3-10;
EN 50173; ISO/IEC 11801

National ANSI/ICEA S-83-596;
ANSI/TIA-568.3-D; NFPA 130;
Telcordia GR-409

CHARACTERISTICS

Construction characteristics

Type of cable	Tight Buffered (TB)
Jacket Material	Plenum

Usage characteristics

RoHS compliant	Yes
Recommended operating temperature range	-20 .. 75 °C
Ambient installation temperature, range	0 .. 70 °C
Recommended storage temperature range	-40 .. 85 °C

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TECHNICAL DATA - PHYSICAL						Install		Long Term		Install		Long Term	
Fibers	Part Number Prefix	Diameter		Weight		Min. Bend Radius				Max. Loading			
		in.	mm	lb./kft	kg/km	in.	cm	in.	cm	lbf.	N	lbf.	N
1	ICP001	0.079	2.0	2	3	1.2	3.0	0.8	2.0	25	111	8	33
2 Duplex	ICP0X0	0.079 x 0.162	2.0 x 4.1	5	7	1.2	3.0	0.8	2.0	25	111	8	33
2	ICP002	0.170	4.3	12	18	2.6	6.5	1.7	4.3	100	445	30	133
4	ICP004	0.170	4.3	13	20	2.6	6.5	1.7	4.3	100	445	30	133

TECHNICAL DATA										
Fiber Type	Part Number Suffix	Berk-Tek Fiber	Core Size	Wavelength (nm)	Maximum Attenuation (dB/km)	Effective Modal Bandwidth @ 850 nm (MHz•km)	Distance (meters)			
Multimode - Bend Insensitive							1 GbE	10 GbE	40 GbE	100 GbE
OM1	CB3510/25	GIGAlite	62.5 μm	850/1300	3.5/1.0	200	300	33	N/A	N/A
OM3	EB3010/25	GIGAlite-10	50 μm	850/1300	3.0/1.0	2000	1000	300	100	70
OM4	FB3010/F5	GIGAlite-10FB	50 μm	850/1300	3.0/1.0	4700	1040	550	150	100
OM4+	XB3010/X5	GIGAlite-10XB	50 μm	850/1300	3.0/1.0	4900	1210	600	300	150
WideBand Multimode - Bend Insensitive							1 GbE	10 GbE	40 GbE	100 GbE
OM5	WB3010/W5	GIGAlite-10WB	50 μm	850-953/1300	3.0/1.0	4700	1040	550	190	100
Single-Mode - Bend Insensitive - ITU-T G.652.D and G.657.A1 Compliant							1 GbE	10 GbE	40 GbE	100 GbE
OS2	AB0707	Standard for Tight Buffer	SMF	1310/1550	0.5/0.5	N/A	≥ 5000	≥ 10000	≥ 10000	≥ 10000

STANDARD SHEATH COLORS - TIGHT BUFFER

Fiber Type	Core Size (µm)	ISO-TIA Standard	Effective Modal BW @ 850 nm	Overfilled Launch BW @ 850 nm	Attenuation @ 850 nm	Attenuation @ 1300 nm	Attenuation @ 1550 nm	Sheath Color
AB	8.3	OS2	NS	NS	NS	0.5 dB/km	0.5 dB/km	Yellow
CB	62.5	OM1	200 MHz·km	200 MHz·km	3.5 dB/km	1.0 dB/km	NS	Orange
EB	50	OM3	2000 MHz·km	1500 MHz·km	3.0 dB/km	1.0 dB/km	NS	Aqua
FB	50	OM4	4700 MHz·km	3500 MHz·km	3.0 dB/km	1.0 dB/km	NS	Aqua
XB	50	OM4+	4900 MHz·km	3675 MHz·km	3.0 dB/km	1.0 dB/km	NS	Violet
WB	50	OM5	4700 MHz·km	3500 MHz·km	3.0 dB/km	1.0 dB/km	NS	Lime Green

NS = Not Specified

MANUFACTURING RELEASE

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