

Berk-Tek Indoor LSZH Riser Premises Distribution w/ Armor-Tek™ (PDRZK)

Berk-Tek's tight buffered, LSZH, interlock armored fiber optic cable is designed for installation in riser and horizontal environments and interbuilding backbone structures.

DESCRIPTION

Berk-Tek's Premise Distribution LSZH Armor-Tek cable is a riser rated tight buffered design. Armor-Tek Interlock Armor is formed around the LSZH Premises Distribution cable core. A riser rated sheath is then extruded around the interlocking armor.

Construction

900 µm buffered fibers surrounded by aramid yarns. Sheathed using a special, state-of-the-art low smoke zero halogen polymer material.

Outdoor Considerations

Black jacketed and water-blocked core versions of riser cables suitable for Indoor/Outdoor installations in-conduit and below the frost line are available upon request. Outdoor versions feature UV and fungus resistant jacketing.

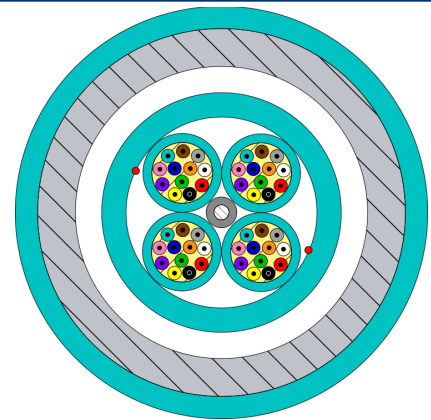
Applications

Berk-Tek's tight buffered cable is intended for all high speed data applications including:

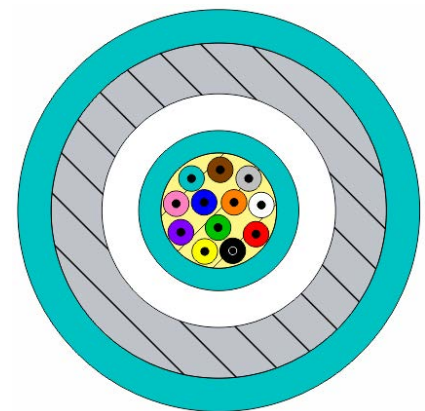
- ETHERNET: 10BASE – 40GBASE (10BASE, 100BASE, 1000BASE, 10GBASE, 40GBASE, 100GBASE, 400GBASE)
- Fibre Channel: 1G-FC – 128GFC (1, 2, 4, 8, 16, 32, 128 GFC)
- SONET: OC-1 – OC-768 (OC -1, 3, 12, 24, 48, 192, 768)
- SDH: STM-0 – STM-256 (STM-0, 1, 4, 16, 64, 256)
- OTN: OTU-1 – OTU4 (OTU1, 2, 2e, 2f, 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

- Low Smoke Zero Halogen rated cable
 - IEC 60332-1-2
 - IEC 60332-1-3
 - IEC 60332-2-2
 - IEC 60332-3-24 Category C
 - IEC 60332-3-25 Category D
 - IEC 61034-2
- Flexible, small diameter, 900 µm tight buffered construction
- High tensile strength and small diameter design
- Six to 48 count fiber construction riser designs ideal for horizontal and backbone installation
- Single-mode, multimode, and hybrid designs available



For fiber counts from 36 and 48



For fiber counts up to 24

STANDARDS

International EN 50173;
IEC 60332-1-2; IEC 60332-1-3;
IEC 60332-2-2;
IEC 60332-3-24 Cat.C;
IEC 60332-3-25 Cat.D;
IEC 61034-2; ISO/IEC 11801

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

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Benefits

- Eliminates the need for conduit or plenum innerduct
- Significant cost savings in both materials and labor - up to 25%
- Accommodates last minute relocations or pathway changes
- Provides a higher concentration of cables in an area than conduit
- Can be installed in campus environments due to the durability and indoor/outdoor rating of the cable
- Armor provides crush protection and protection from rodent attacks

Country of Origin: U.S.A.

CHARACTERISTICS

Construction characteristics

Type of cable	Tight buffer
Jacket Material	LSZH-FR

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
6	PDRZK006	0.656	16.7	139	206	9.8	25.0	6.6	16.7	150	667	45	200
12	PDRZK012	0.656	16.7	145	216	9.8	25.0	6.6	16.7	150	667	45	200
24	PDRZK024	0.696	17.7	179	266	10.4	26.5	7.0	17.7	300	1335	90	400
36	PDRZK12B036	1.001	25.4	338	502	15.0	38.1	10.0	25.4	300	1335	90	400
48	PDRZK12B048	1.001	25.4	362	538	15.0	38.1	10.0	25.4	600	2670	180	800

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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