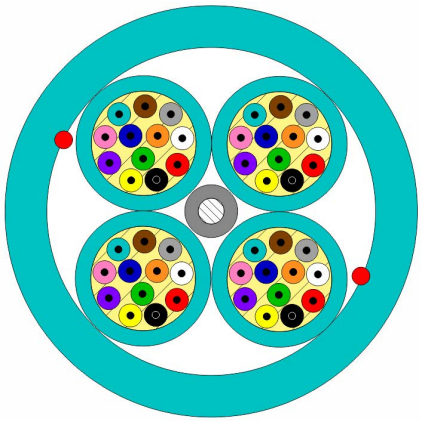
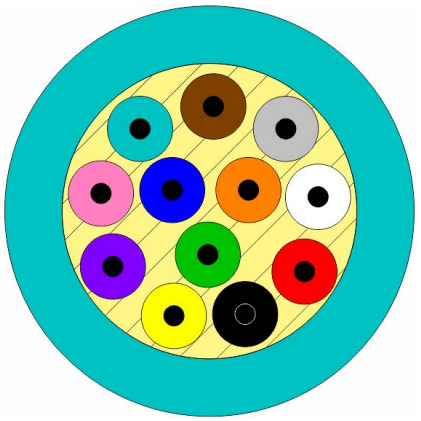
Berk-Tek Indoor LSZH Riser Premises Distribution (PDRZ)

Berk-Tek a LEVITON company

Berk-Tek's tight buffered low smoke zero halogen riser premises distribution fiber optic cable is designed for installation in riser and horizontal environments and interbuilding backbone structures.



For fiber counts 36 and 48



For fiber counts up to 24

DESCRIPTION

Berk-Tek's tight buffered cable is available with standard multimode, single-mode and GIGAlite™ fibers.

Construction

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

All dielectric.

Outdoor Considerations

Black jacketed and water-blocked versions of riser cables are available upon request for outdoor installations. Outdoor versions feature UV and fungus resistant jacketing.

Flame Rating

OFNR-ST1

Applications

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

- ETHERNET: 10BASE – 400GBASE (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
- 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
- Water blocked versions, suitable for Indoor/Outdoor installations, in-conduit, below the frost line, are available

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 60754-1; IEC 60754-2;
IEC 61034-2; ISO/IEC 11801;
NES 713

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

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Benefits

- Cost-saving design, easy to install and terminate
- Provides for greater pulling distances thus reducing installation time
- Assurance that cables will meet required specifications for communication networking applications
- Broad design selection allows for mix and match of fiber components to specific networking applications
- One cable design meeting all structured cabling network communications applications

Country of Origin: U.S.A.

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	PDRZ006	0.256	6.5	28	42	3.8	9.8	2.6	6.5	150	667	45	200
12	PDRZ012	0.278	7.1	35	51	4.2	10.6	2.8	7.1	150	667	45	200
24	PDRZ024	0.301	7.6	55	82	4.5	11.5	3.0	7.6	300	1335	90	400
36	PDRZ12B036	0.555	14.1	115	171	8.3	21.1	5.6	14.1	300	1335	90	400
48	PDRZ12B048	0.590	15.0	137	207	8.9	22.5	5.9	15.0	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

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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

IMPORTANT NOTICE: This product specification is provided for informational purposes only in order to illustrate typical product constructions, applications and/or methods of installation. Because conditions of actual installation and use are unique and will vary, Berk-Tek makes no representation or warranty as to the reliability, accuracy or completeness of this data, even if Berk-Tek is aware of the product's intended use or purpose. Furthermore, this data does not constitute, nor should it be regarded or relied upon, as professional engineering advice. Installation of product should only be done by qualified personnel and in conformance with all safety, electrical and other applicable codes, standards, rules or regulations. Appropriate and correct product selection, installation and use, and compliance with all such codes, standards, rules and regulations, is a customer/end-user responsibility. Product specifications, standards, programs or services are subject to improvement or changes without notice. Berk-Tek accepts no liability for typographical errors, technical inaccuracies, omissions or misuse of the information contained herein. Changes will be periodically made to address any such issues.

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