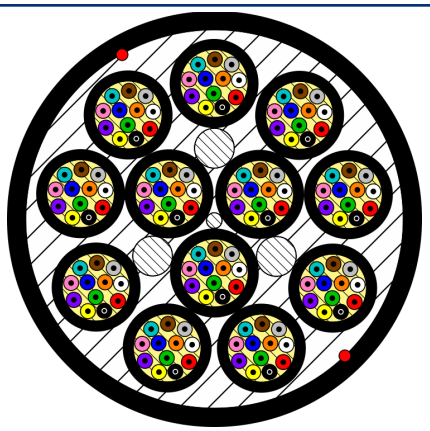
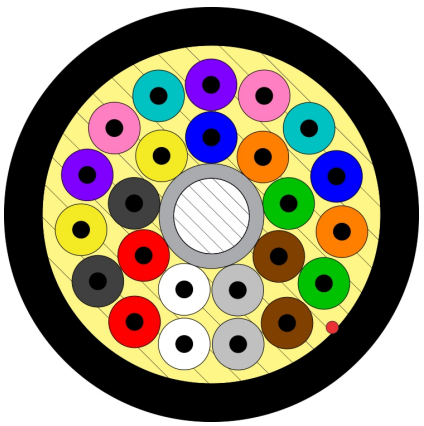
Berk-Tek Indoor/Outdoor Plenum Premises Distribution - Harsh Environment (PDP-HE)

Designed and listed with a plenum rating, Berk-Tek's revolutionary Harsh Environment Indoor/Outdoor Premise Distribution cables can be utilized inside or between buildings or industrial environments where corrosive chemicals, fuels, or vapors may be present. A plenum grade thermoplastic jacket material in this plenum design enables use in harsh environments such as power plants, mines, airports, petrochemical facilities or anywhere that strong resistance to solvents or hydrocarbons is required. Suitable for Indoor/Outdoor Harsh Environment installations, in-conduit, below the frost line.



For fiber counts from 48-144



For up to 24 fiber cables

DESCRIPTION

This fiber optic cable is designed for installation in plenum, riser and horizontal environments and interbuilding backbone structures. Suitable for operation across wide temperature variations typically addressed by outside plant cables. No Buffer Tube Fanout kits are required. Direct termination is enabled.

Construction

- Each cable utilizes our DryGel water blocking system in the cable core.
- Cable design can accommodate from 6-144 tight buffered (900 µm) fibers.
- All dielectric. Interlocking Armor (ArmorTek) versions are available using aluminum armor.

Outdoor Considerations

- Loose Tube cables are recommended if interbuilding conduit systems lie above the frost line and are likely to fill with water.
- Tight Buffer fiber cables are not suitible for aerial-lashed installations.

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

- Flexible, small diameter, 900 µm tight buffered construction
- High tensile strength and small diameter design
- Plenum grade thermoplastic jacket, chemical resistant
- 6 to 144 count fiber construction plenum designs ideal for horizontal and backbone installation
- Single-mode, multimode, and hybrid designs available
- Also available in low smoke zero halogen design

STANDARDS

International EN 50173; ISO/IEC 11801

National ANSI/ICEA S-104-696; ANSI/ICEA S-83-596; ANSI/TIA-568.3-D; NFPA 130; Telcordia GR-409

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Berk-Tek Indoor/Outdoor Plenum Premises Distribution - Harsh Environment (PDP-HE)

Berk-Tek
a LEVITON company

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.

CHARACTERISTICS

Construction characteristics	
Type of cable	Tight Buffered (TB)
Jacket Material	Plenum

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	PDP006-HE(BLA)	0.208	5.3	18	26	3.1	7.9	2.1	5.3	300	1335	90	400
12	PDP012-HE(BLA)	0.263	6.7	30	44	3.9	10.0	2.6	6.7	300	1335	90	400
24	PDP024-HE(BLA)	0.287	7.3	36	53	4.3	10.9	2.9	7.3	300	1335	90	400
36	PDP12B036-HE(BLA)	0.520	13.2	112	166	7.8	19.8	5.2	13.2	300	1335	90	400
48	PDP12B048-HE(BLA)	0.580	14.7	135	201	8.7	22.1	5.8	14.7	600	2670	180	800
72	PDP12B072-HE(BLA)	0.701	17.8	206	307	10.5	26.7	7.0	17.8	600	2670	180	800
96	PDP12B096-HE(BLA)	0.859	21.8	313	466	12.9	32.7	8.6	21.8	800	3559	240	1068
144	PDP12B144-HE(BLA)	0.896	22.8	318	474	13.4	34.1	9.0	22.8	1000	4445	300	1335

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 - BLACK

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	Black
CB	62.5	OM1	200 MHz·km	200 MHz·km	3.5 dB/km	1.0 dB/km	NS	Black
EB	50	OM3	2000 MHz·km	1500 MHz·km	3.0 dB/km	1.0 dB/km	NS	Black
FB	50	OM4	4700 MHz·km	3500 MHz·km	3.0 dB/km	1.0 dB/km	NS	Black
XB	50	OM4+	4900 MHz·km	3675 MHz·km	3.0 dB/km	1.0 dB/km	NS	Black
WB	50	OM5	4700 MHz·km	3500 MHz·km	3.0 dB/km	1.0 dB/km	NS	Black

NS = Not Specified

INDUSTRIAL ZONE C PERFORMANCE

Catagory	Specification
Abrasion resistance	75 cycles, 2 lb. load per UL 2556 7.10
Sunlight resistant	UL 444 7.22

MANUFACTURING RELEASE

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