

# Berk-Tek Indoor Riser Premises Distribution w/Armor-Tek™ (PDRK)

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

## DESCRIPTION

Berk-Tek's tight buffered with Interlocking Armor 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 polymer material.

OFRC Rated. Available with Aluminum Interlock Armor.

### Outdoor Considerations

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

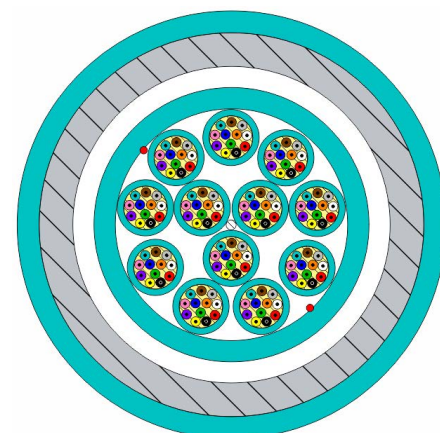
### Applications

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

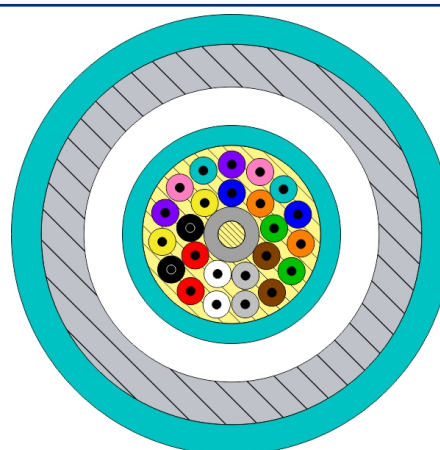
- ETHERNET: 10BASE – 40GBASE (10BASE, 100BASE, 1000BASE, 10GBASE, 40GBASE, 100GBASE, 400GBASE)
- Fibre Channel: 1G-FC – 128GFC (1, 2, 4, 8, 16, 32, 128 GFC)
- SONET: OC-1 – OC-768 (OC -1, 3, 12, 24, 48, 192, 768)
- SDH: STM-0 – STM-256 (STM-0, 1, 4, 16, 64, 256)
- OTN: OTU-1 – OTU4 (OTU1, 2, 2e, 2f, 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 µm tight buffered construction
- High tensile strength and small diameter design
- Six to 144 count fiber construction riser designs ideal for horizontal and backbone and installation
- Single-mode, multimode, and hybrid designs available
- Also available in low smoke zero halogen design
- Configurations available suitable for indoor/outdoor installations in conduit, below the frost line



For fiber counts from 36-144



For fiber counts up to 24

## STANDARDS

**International** EN 50173;  
ISO/IEC 11801

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

## 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	Riser

### Usage characteristics

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

## 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

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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
6	PDRK006	0.624	15.8	120	179	9.4	23.8	6.2	15.8	150	667	45	200
12	PDRK012	0.624	15.8	126	188	9.4	23.8	6.2	15.8	150	667	45	200
24	PDRK024	0.690	17.5	166	248	10.1	26.3	6.9	17.5	150	667	45	200
36	PDRK12B036	0.961	24.4	277	412	14.4	36.6	9.6	24.4	300	1335	90	400
48	PDRK12B048	0.961	24.4	301	448	14.4	36.3	9.6	24.4	600	2670	180	800
72	PDRK12B072	1.080	27.4	397	591	16.2	41.1	10.8	27.4	600	2670	180	800
96	PDRK12B096	1.265	32.1	521	775	19.0	48.2	12.7	32.1	600	2670	180	800
144	PDRK12B144	1.265	32.1	539	802	19.0	48.2	12.7	32.1	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)			
<b>Multimode - Bend Insensitive</b>							<b>1 GbE</b>	<b>10 GbE</b>	<b>40 GbE</b>	<b>100 GbE</b>
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
<b>WideBand Multimode - Bend Insensitive</b>							<b>1 GbE</b>	<b>10 GbE</b>	<b>40 GbE</b>	<b>100 GbE</b>
OM5	WB3010/W5	GIGAlite-10WB	50 μm	850-953/1300	3.0/1.0	4700	1040	550	190	100
<b>Single-Mode - Bend Insensitive - ITU-T G.652.D and G.657.A1 Compliant</b>							<b>1 GbE</b>	<b>10 GbE</b>	<b>40 GbE</b>	<b>100 GbE</b>
OS2	AB0707	Standard for Tight Buffer	SMF	1310/1550	0.5/0.5	N/A	≥ 5000	≥ 10000	≥ 10000	≥ 10000

## MANUFACTURING RELEASE

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