

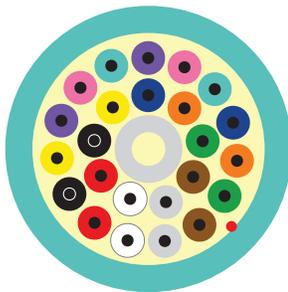
PRODUCT SPECIFICATIONS

BERK-TEK™ Indoor/Outdoor Plenum Premises Distribution Cable (PDP-I/O)

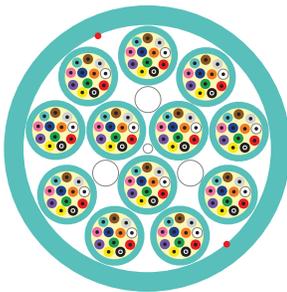
BERK-TEK Indoor/Outdoor Plenum Premises Distribution Cable (PDP-I/O)

APPLICATION

Plenum rated Indoor/Outdoor tight-buffer cables are designed specifically for LAN/WAN campus and building backbone cabling infrastructure. The thermoplastic jacketed cables are suitable for indoor/outdoor installations in conduit below the frost line. This fiber optic cable is designed for installation in plenum, riser, horizontal environments, and interbuilding backbone structures. This design incorporates tight buffered optical fibers within a dry water blocked cable core and is recommended for conduit systems likely to fill with water. Suitable for operation across wide temperature variations typically addressed by outside plant cables.



For fiber counts up to 24



For fiber counts from 36 to 144

COUNTRY OF ORIGIN

USA

WARRANTY INFORMATION

For Leviton product warranties, go to Leviton.com/ns/warranty

FEATURES & BENEFITS

- Water blocked cables feature fungus resistant jacketing, and are sunlight resistant per UL 444 clause 7.22
- DryGel water blocking system in the cable core
- Available with bend-optimized single-mode fibers
- Flexible, small diameter, 900 µm tight buffered construction
- 6 to 144 count fiber construction plenum design is ideal for horizontal and backbone installations and along plenums
- Configurations suitable for indoor/outdoor installations in conduit below the frost line
- High tensile strength and small diameter design
- Single-mode, multimode, and composite designs available
- Also available in riser-rated Low Smoke Zero Halogen (LSZH)
- Available in Aluminum interlock armor (ARMOR-TEK™)
- No buffer tube fanout kits are required
- Direct termination is enabled
- Cost-saving design, easy to install and terminate
- Provides greater pulling distances thus reducing installation time
- Broad design selection allows for mix and match of fiber components to specific networking applications
- One cable design meets all structured cabling network communications applications

STANDARDS & REGULATIONS

- International EN 50173; ISO/IEC 11801
- National ANSI/ICEA S-104-696; ANSI/ICEA S-83-596; ANSI/TIA-568.3-E; NFPA 130; Telcordia GR-409
- ETHERNET: 10BASE – 40GBASE (10BASE, 100BASE, 1000BASE, 10GBASE, 40GBASE, 100GBASE, 400GBASE)
- Fiber 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 (STM0, 1, 4, 16, 64, 256)
- OTN: OTU-1 – OTU4 (OTU1, 2, 2e, 2f, 3, 3e2, 4)
- CPRI: CPRI-1– CPRI-9 (CPRI1, 2, 3, 4, 5, 6, 7, 7a, 8, 9)
- PON (SMF ONLY): RFoG, APON, BPON, EPON, GPON, WDM-PON, NG-PON

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Network Solutions

CHARACTERISTICS

Construction

Type of cable	Tight Buffered (TB)
Jacket material	Plenum

Usage Characteristics

Temperature (Storage):	-40 °C to +85 °C (-40 °F to +185 °F)
Temperature (Installation):	0 °C to +75 °C (-32 °F to +167 °F)
Temperature (Operating):	-40 °C to +75 °C (-40 °F to +167 °F)

TECHNICAL DATA - PHYSICAL

Fiber	Part Number Prefix	Diameter		Weight		Min. Bend Radius				Max. Loading			
						Install		Long Term		Install		Long Term	
		in.	mm	lb./kft	kg/km	in.	cm	in.	cm	lbf.	N	lbf.	N
6	PDP006-I/O	0.180	4.6	13	19	2.7	6.9	1.8	4.6	150	667	45	200
12	PDP012-I/O	0.215	5.5	18	27	3.2	8.2	2.2	5.5	150	667	45	200
24	PDP024-I/O	0.288	7.3	34	51	4.3	11.0	2.9	7.3	150	667	45	200
36	PDP12B036-I/O	0.521	13.2	112	166	7.8	19.9	5.2	13.2	300	1335	90	400
48	PDP12B048-I/O	0.558	14.2	136	202	8.4	21.3	5.6	14.2	600	2670	180	800
72	PDP12B072-I/O	0.716	18.2	212	316	10.7	27.3	7.2	18.2	600	2670	180	800
96	PDP12B096-I/O	0.859	21.8	313	466	12.9	32.7	8.6	21.8	600	2670	180	800
144	PDP12B144-I/O	0.896	22.8	318	474	13.4	34.1	9.0	22.8	1000	4445	300	1335

INDOOR/OUTDOOR PLENUM PREMISES DISTRIBUTION WITH ARMOR-TEK - TOP CONFIGURATIONS

Description	Part Number		
	OS2	OM3	OM4
6 Fiber Tight Buffered, Plenum, Indoor/Outdoor	PDP006AB0707-I/O-C4(YEL)	PDP006EB3010/25-I/O-C4(AQU)	PDP006FB3010/F5-I/O-C4(AQU)
12 Fiber Tight Buffered, Plenum, Indoor/Outdoor	PDP012AB0707-I/O-C4(YEL)	PDP012EB3010/25-I/O-C4(AQU)	PDP012FB3010/F5-I/O-C4(AQU)
24 Fiber Tight Buffered, Plenum, Indoor/Outdoor	PDP024AB0707-I/O-C4(YEL)	PDP024EB3010/25-I/O-C4(AQU)	PDP024FB3010/F5-I/O-C4(AQU)

FIBER DATA AND SHEATH COLORS

Fiber Type	Part Number Suffix	Leviton Fiber	Core Size	Wavelength (nm)	Maximum Attenuation (dB/km)	Effective Modal Bandwidth @ 850 nm (MHz*km)	Distance (meters)				Sheath Color
Multimode - 62.5 µm Standard, and 50 µm Bend Optimized							1 GbE	10 GbE	40 GbE	100 GbE	
OM1	CB3510/25	CB	62.5 µm	850/1300	3.5/1.0	200	300	33	N/A	N/A	Orange
OM3	EB3010/25	EB	50 µm	850/1300	2.8/0.8	2000	1000	300	100	70	Aqua
OM4	FB3010/F5	FB	50 µm	850/1300	2.8/0.8	4700	1040	550	150	100	Aqua
OM4+	XB3010/X5	XB	50 µm	850/1300	2.8/0.8	4900	1210	600	300	150	Violet
WideBand Multimode - Bend Optimized							1 GbE	10 GbE	40 GbE	100 GbE	
OM5	WB3010/W5	WB	50 µm	850-953/1300	2.8/0.8	4700	1040	550	190	100	Lime Green
Single-mode Bend Optimized - ITU-T G.652.D and G.657.A1 Compliant							1 GbE	10 GbE	40 GbE	100 GbE	
OS2	AB0707	AB	SMF	1310/1550	0.5/0.5	N/A	≥ 5000	≥ 10000	≥ 10000	≥ 10000	Yellow

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FIBER OPTIC CABLE PART NUMBERING PLATFORM

Sample Part Number: [PDPK012](#) [EB3010/25](#) [-I/O-C4C5\(AQU\)](#)

CABLE PREFIX

CABLE FAMILY		CABLE OPTIONS		FIBER COUNT	
PD	Premises Distribution	P	Plenum	001	Strand 1-24
				12Bxxx	Subunit Design: xxx = strand count 1 - 12 Fiber (001 to 012) 18 - 24 fiber (018 to 024 OR 12B018 to 12B024) > 24 fibers (12B036 to max strand count)

FIBER SUFFIX

FIBER TYPE		SUFFIX	
CB3510/25	OM1	-I/O	Tight Buffer Indoor/Outdoor
EB3010/25	OM3	-HE	Harsh Environment
FB3010/F5	OM4	-C4	Special Jacket Color
XB3010/X5	OM4+	-C5	Special Jacket Color over Armor
WB3010/W5	OM5	-D2	Special Subunit Diameter
AB0707	OS2 (TB)	-D4	Special Outer Diameter
		-L1	Special Print

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For further support information, visit Leviton.com/ns/support

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