

I/O Tight Buffer Plenum Cables

Berk-Tek's plenum rated Indoor/Outdoor Tight-Buffer cables are designed specifically for LAN/WAN campus and building backbone cabling infrastructure. A fluoropolymer jacket material in this plenum design enables use in harsh environments such as power plants, mines, airports, petro-chemical facilities or anywhere that strong resistance to solvents or hydrocarbons is required. Suitable for Indoor/Outdoor installations, in-conduit, below the frost line.

Description

This fiber optic cable is designed for installation in plenum, riser and horizontal environments and interbuilding backbone structures.

This design incorporates tight buffered optical fibers within a dry water blocked cable core (4-24 fibers) or 12-fiber subunits (36-144 fibers). 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. Cable design can accommodate from 4-144 tight buffered (900 µm) fibers. A glass reinforced (GRP) anti-buckling member is centrally located within cables having fibers counts >4.

All dielectric.

Interlocking Armor (Armor-Tek) versions are available using aluminum or steel armor.

OUTDOOR CONSIDERATIONS

Loose Tube cables are recommended if interbuilding conduit systems lie above the frost line and are likely to fill with water.

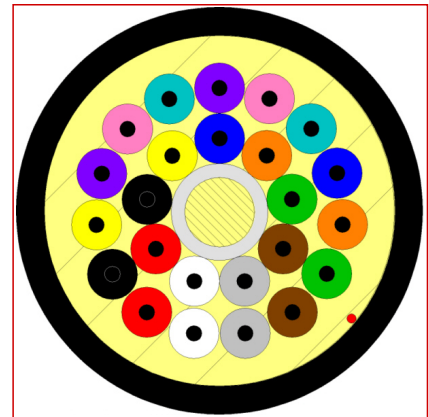
- Tight Buffer fiber cables are not suitable for aerial-lashed installations.

APPLICATIONS

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

- 10BASE-FL
- 100BASE-SX/100BASE-FX
- ATM 155/ATM 622
- 1000BASE-SX/1000BASE-LX
- Fibre Channel 1.062/2.125
- 10GBASE-SR/SW
- 10GBASE-LX4
- 40/100 GbE

FEATURES



Standards

International EN 50173; ISO/IEC 11801

National ANSI/ICEA S-104-696; ANSI/ICEA S-83-596; ANSI/TIA-568-C.3; Telcordia GR-20; Telcordia GR-409

I/O Tight Buffer Plenum Cables

- Flexible, small diameter, 900 µm tight buffered construction
- High tensile strength and small diameter design
- 6 to 144 count fiber construction plenum designs ideal for horizontal and backbone installation
- Single-mode, multimode, and hybrid designs available
- Support token ring, 10BASE-F, Fast Ethernet, FOIRL, Fibre Channel FC-PH, ATM, Gigabit Ethernet, FDDI, Sonet, voice, video and other networking applications
- Also available in low smoke zero halogen design
- Water blocked versions, suitable for Indoor/Outdoor installations, in-conduit, below the frost line, are available

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

Characteristics

Construction characteristics	
Type of cable	Tight Buffered (TB)
Outer sheath	Plenum
Usage characteristics	
RoHS conform	Yes

Sheath Colors

Fiber Type	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	OS1	NS	NS	NS	0.7 dB/km	0.7 dB/km	Black
CB	OM1	200 MHz-km	200 MHz-km	3.5 dB/km	1.0 dB/km	NS	Black
GB	OM1	500 MHz-km	350 MHz-km	3.5 dB/km	1.0 dB/km	NS	Black
ZB	OM2	500 MHz-km	500 MHz-km	3.5 dB/km	1.5 dB/km	NS	Black
LB	OM2+	950 MHz-km	700 MHz-km	3.0 dB/km	1.0 dB/km	NS	Black
EB	OM3	2000 MHz-km	1500 MHz-km	3.0 dB/km	1.0 dB/km	NS	Black
FB	OM4	4700 MHz-km	3500 MHz-km	3.0 dB/km	1.0 dB/km	NS	Black
XB	OM4+	4900 MHz-km	3675 MHz-km	3.0 dB/km	1.0 dB/km	NS	Black

NS = Not Specified

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Physical Characteristics - All Fiber Types

Nb optical fibres	Minimum Bending Radius - LongTerm [in]	Max. Load. Long Term (lbs) [lb]	Minimum Bending Radius - Install [in]	Approximate weight [lb/kft]	Maximum installation tension [lb]
4	1.9	45.0	2.8	13	150
6	2.1	90.0	3.1	18	300
12	2.6	90.0	3.8	30	300
18	2.6	90.0	3.9	29	300
24	2.9	90.0	4.3	36	300
36	5.2	90.0	7.8	112	300
48	5.7	180.0	8.5	136	600
72	6.8	180.0	10.2	212	600
144	9.2	300.0	13.8	318	1000

Product List

☎=Make to order, 📦=Make to stock

Part Number	Description
☎ PDP012CB3510/25-HE(BLA)	12 x OM1 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP012GB3510/25-HE(BLA)	12 x OM1+ Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP012ZB3515-HE(BLA)	12 x OM2 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP012LB3010/75-HE(BLA)	12 x OM2+ Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP012EB3010/25-HE(BLA)	12 x OM3 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP012FB3010/F5-HE(BLA)	12 x OM4 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP012XB3010/X5-HE(BLA)	12 x OM4+ Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP012AB0707-HE(BLA)	12 x OS1 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP12B144CB3510/25-HE(BLA)	144 x OM1 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP12B144GB3510/25-HE(BLA)	144 x OM1+ Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP12B144ZB3515-HE(BLA)	144 x OM2 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP12B144LB3010/75-HE(BLA)	144 x OM2+ Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP12B144EB3010/25-HE(BLA)	144 x OM3 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP12B144FB3010/F5-HE(BLA)	144 x OM4 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP12B144XB3010/X5-HE(BLA)	144 x OM4+ Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP12B144AB0707-HE(BLA)	144 x OS1 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP018CB3510/25-HE(BLA)	18 x OM1 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP018GB3510/25-HE(BLA)	18 x OM1+ Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP018ZB3515-HE(BLA)	18 x OM2 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP018LB3010/75-HE(BLA)	18 x OM2+ Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP018EB3010/25-HE(BLA)	18 x OM3 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP018FB3010/F5-HE(BLA)	18 x OM4 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP018XB3010/X5-HE(BLA)	18 x OM4+ Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP018AB0707-HE(BLA)	18 x OS1 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP024CB3510/25-HE(BLA)	24 x OM1 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP024GB3510/25-HE(BLA)	24 x OM1+ Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP024ZB3515-HE(BLA)	24 x OM2 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP024LB3010/75-HE(BLA)	24 x OM2+ Premise Distribution Plenum Indoor/Outdoor Cable

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I/O Tight Buffer Plenum Cables

Part Number	Description
☎ PDP024EB3010/25-HE(BLA)	24 x OM3 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP024FB3010/F5-HE(BLA)	24 x OM4 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP024XB3010/X5-HE(BLA)	24 x OM4+ Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP024AB0707-HE(BLA)	24 x OS1 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP12B036CB3510/25-HE(BLA)	36 x OM1 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP12B036GB3510/25-HE(BLA)	36 x OM1+ Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP12B036ZB3515-HE(BLA)	36 x OM2 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP12B036LB3010/75-HE(BLA)	36 x OM2+ Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP12B036EB3010/25-HE(BLA)	36 x OM3 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP12B036FB3010/F5-HE(BLA)	36 x OM4 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP12B036XB3010/X5-HE(BLA)	36 x OM4+ Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP12B036AB0707-HE(BLA)	36 x OS1 Premise Distribution Plenum Indoor/Outdoor Cable
☎ ICP004CB3510/25-HE(BLA)	4 x OM1 Interconnect Plenum Indoor/Outdoor Cable
☎ ICP004GB3510/25-HE(BLA)	4 x OM1+ Interconnect Plenum Indoor/Outdoor Cable
☎ ICP004ZB3515-HE(BLA)	4 x OM2 Interconnect Plenum Indoor/Outdoor Cable
☎ ICP004LB3010/75-HE(BLA)	4 x OM2+ Interconnect Plenum Indoor/Outdoor Cable
☎ ICP004EB3010/25-HE(BLA)	4 x OM3 Interconnect Plenum Indoor/Outdoor Cable
☎ ICP004FB3010/F5-HE(BLA)	4 x OM4 Interconnect Plenum Indoor/Outdoor Cable
☎ ICP004XB3010/X5-HE(BLA)	4 x OM4+ Interconnect Plenum Indoor/Outdoor Cable
☎ ICP004AB0707-HE(BLA)	4 x OS1 Interconnect Plenum Indoor/Outdoor Cable
☎ PDP12B048CB3510/25-HE(BLA)	48 x OM1 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP12B048GB3510/25-HE(BLA)	48 x OM1+ Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP12B048ZB3515-HE(BLA)	48 x OM2 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP12B048LB3010/75-HE(BLA)	48 x OM2+ Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP12B048EB3010/25-HE(BLA)	48 x OM3 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP12B048FB3010/F5-HE(BLA)	48 x OM4 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP12B048XB3010/X5-HE(BLA)	48 x OM4+ Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP12B048AB0707-HE(BLA)	48 x OS1 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP006CB3510/25-HE(BLA)	6 x OM1 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP006GB3510/25-HE(BLA)	6 x OM1+ Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP006ZB3515-HE(BLA)	6 x OM2 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP006LB3010/75-HE(BLA)	6 x OM2+ Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP006EB3010/25-HE(BLA)	6 x OM3 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP006FB3010/F5-HE(BLA)	6 x OM4 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP006XB3010/X5-HE(BLA)	6 x OM4+ Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP006AB0707-HE(BLA)	6 x OS1 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP12B072CB3510/25-HE(BLA)	72 x OM1 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP12B072GB3510/25-HE(BLA)	72 x OM1+ Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP12B072ZB3515-HE(BLA)	72 x OM2 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP12B072LB3010/75-HE(BLA)	72 x OM2+ Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP12B072EB3010/25-HE(BLA)	72 x OM3 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP12B072FB3010/F5-HE(BLA)	72 x OM4 Premise Distribution Plenum Indoor/Outdoor Cable
☎ PDP12B072XB3010/X5-HE(BLA)	72 x OM4+ Premise Distribution Plenum Indoor/Outdoor Cable

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Contact

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Phone: 717-354-6200
fiber-pc.us@nexans.com

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Part Number	Description
☎ PDP12B072AB0707-HE(BLA)	72 x OS1 Premise Distribution Plenum Indoor/Outdoor Cable
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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 cable 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.