

I/O Tight Buffer Riser Cable

Berk-Tek's riser rated Indoor/Outdoor Tight-Buffer cables are designed specifically for LAN/WAN campus and building backbone cabling infrastructure. Suitable for Indoor/Outdoor installations, in-conduit, below the frost line.

Description

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

This design incorporates tight buffered optical fibers within a dry water blocked cable core (6-24 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 6-144 tight buffered (900 μm) fibers. A glass reinforced (GRP) anti-buckling member is centrally located within cables having fiber counts from 24-144.

All dielectric.

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

Outdoor Considerations

For use in conduit, below the frost line.

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.

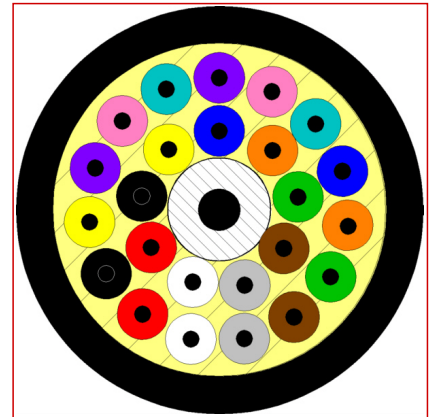
Applications

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

- Flexible, small diameter, 900 μm tight buffered construction
- High tensile strength and small diameter design
- Six 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; TIA/EIA-568-B.3; Telcordia GR-20; 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

Characteristics

Construction characteristics	
Type of cable	Tight Buffered (TB)
Outer sheath	Riser
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

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]
6	2.2	45.0	3.4	19	150
12	2.5	45.0	3.7	25	150
18	2.8	45.0	4.2	32	150
24	3.4	45.0	5	47	150
36	5.6	90.0	8.3	108	300
48	5.9	180.0	8.9	131	600
72	7.3	180.0	11	203	600

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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]
144	9.4	300.0	14.1	310	1000

Product List

☎ = Make to order, 📦 = Make to stock

Part Number	Description
📦 PDR012CB3510/25-I/O(BLA)	12 x OM1 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR012GB3510/25-I/O(BLA)	12 x OM1+ Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR012ZB3515-I/O(BLA)	12 x OM2 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR012LB3010/75-I/O(BLA)	12 x OM2+ Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR012EB3010/25-I/O(BLA)	12 x OM3 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR012FB3010/F5-I/O(BLA)	12 x OM4 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR012XB3010/X5-I/O(BLA)	12 x OM4+ Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR012AB0707-I/O(BLA)	12 x OS1 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR12B144CB3510/25-I/O(BLA)	144 x OM1 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR12B144GB3510/25-I/O(BLA)	144 x OM1+ Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR12B144ZB3515-I/O(BLA)	144 x OM2 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR12B144LB3010/75-I/O(BLA)	144 x OM2+ Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR12B144EB3010/25-I/O(BLA)	144 x OM3 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR12B144FB3010/F5-I/O(BLA)	144 x OM4 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR12B144XB3010/X5-I/O(BLA)	144 x OM4+ Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR12B144AB0707-I/O(BLA)	144 x OS1 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR018CB3510/25-I/O(BLA)	18 x OM1 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR018GB3510/25-I/O(BLA)	18 x OM1+ Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR018ZB3515-I/O(BLA)	18 x OM2 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR018LB3010/75-I/O(BLA)	18 x OM2+ Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR018EB3010/25-I/O(BLA)	18 x OM3 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR018FB3010/F5-I/O(BLA)	18 x OM4 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR018XB3010/X5-I/O(BLA)	18 x OM4+ Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR018AB0707-I/O(BLA)	18 x OS1 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR024CB3510/25-I/O(BLA)	24 x OM1 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR024GB3510/25-I/O(BLA)	24 x OM1+ Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR024ZB3515-I/O(BLA)	24 x OM2 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR024LB3010/75-I/O(BLA)	24 x OM2+ Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR024EB3010/25-I/O(BLA)	24 x OM3 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR024FB3010/F5-I/O(BLA)	24 x OM4 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR024XB3010/X5-I/O(BLA)	24 x OM4+ Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR024AB0707-I/O(BLA)	24 x OS1 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR12B036CB3510/25-I/O(BLA)	36 x OM1 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR12B036GB3510/25-I/O(BLA)	36 x OM1+ Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR12B036ZB3515-I/O(BLA)	36 x OM2 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR12B036LB3010/75-I/O(BLA)	36 x OM2+ Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR12B036EB3010/25-I/O(BLA)	36 x OM3 Premise Distribution Riser Indoor/Outdoor Cable

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I/O Tight Buffer Riser Cable

Part Number	Description
☎ PDR12B036FB3010/F5-I/O(BLA)	36 x OM4 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR12B036XB3010/X5-I/O(BLA)	36 x OM4+ Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR12B036AB0707-I/O(BLA)	36 x OS1 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR12B048CB3510/25-I/O(BLA)	48 x OM1 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR12B048GB3510/25-I/O(BLA)	48 x OM1+ Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR12B048ZB3515-I/O(BLA)	48 x OM2 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR12B048LB3010/75-I/O(BLA)	48 x OM2+ Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR12B048EB3010/25-I/O(BLA)	48 x OM3 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR12B048FB3010/F5-I/O(BLA)	48 x OM4 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR12B048XB3010/X5-I/O(BLA)	48 x OM4+ Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR12B048AB0707-I/O(BLA)	48 x OS1 Premise Distribution Riser Indoor/Outdoor Cable
🏠 PDR006CB3510/25-I/O(BLA)	6 x OM1 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR006GB3510/25-I/O(BLA)	6 x OM1+ Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR006ZB3515-I/O(BLA)	6 x OM2 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR006LB3010/75-I/O(BLA)	6 x OM2+ Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR006EB3010/25-I/O(BLA)	6 x OM3 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR006FB3010/F5-I/O(BLA)	6 x OM4 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR006XB3010/X5-I/O(BLA)	6 x OM4+ Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR006AB0707-I/O(BLA)	6 x OS1 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR12B072CB3510/25-I/O(BLA)	72 x OM1 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR12B072GB3510/25-I/O(BLA)	72 x OM1+ Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR12B072ZB3515-I/O(BLA)	72 x OM2 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR12B072LB3010/75-I/O(BLA)	72 x OM2+ Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR12B072EB3010/25-I/O(BLA)	72 x OM3 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR12B072FB3010/F5-I/O(BLA)	72 x OM4 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR12B072XB3010/X5-I/O(BLA)	72 x OM4+ Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR12B072AB0707-I/O(BLA)	72 x OS1 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR024-018LB3010/75-006CB3510/25-I/O (BLA)	Hybrid 18 x OM2+ & 6 x OM1 Premise Distribution Riser Indoor/Outdoor Cable
☎ PDR12B036-024CB3510/25-012AB0707-I/O (BLA)	Hybrid 24 x OM1 + 12 x OS1 Premise Distribution Riser Indoor/Outdoor Cable

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Manufacturing Release

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