Indoor Riser Premises Distribution (PDR)

6 x OS2 Premises Distribution Riser Cable

Contact
Fiber LAN Product Inquiry
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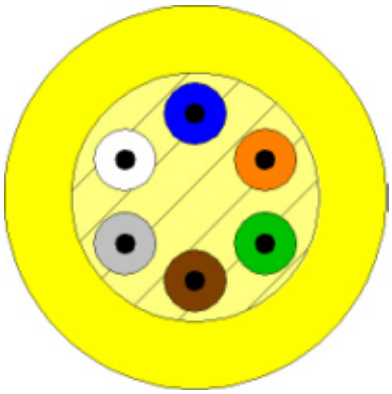
Part Number: PDR006AB0707

Berk-Tek's tight buffered, fiber optic cable is designed for installation in riser and horizontal environments and interbuilding backbone structures.



DESCRIPTION

Berk-Tek's tight buffered 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. All dielectric.

Outdoor Considerations

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

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; I/O 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 installation
- Single-mode, multimode, and hybrid designs available
- Also available in low smoke zero halogen design
- Water blocked indoor/outdoor versions, suitable for 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

STANDARDS

International EN 50173; ISO/IEC 11801

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

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CHARACTERISTICS

Construction characteristics	
Fiber optic type	SM (G.652D)
Type of cable	Tight Buffered (TB)
Jacket Material	Riser
Sheath colour	Yellow
Dimensional characteristics	
Number of optical fibres	6
Cable diameter (Nominal)	0.224 in
Nominal outer diameter	5.7 mm
Nominal cable weight	19 lb/kft
Approximate weight	29 kg/km
Transmission characteristics	
Optical performance	AB (Single-mode, OS2)
Attenuation, max. 1310 nm (cabled)	0.5 dB/km
Attenuation, max. 1550 nm (cabled)	0.5 dB/km
Mechanical characteristics	
Maximum installation tension	150 lb
Maximum installation tension	667 N
Max. Load. Long Term (lbs)	45.0 lb
Max. Load. Long Term	200.0 N
Impacts per TIA/EIA FOTP-25	2 at 4.41 N-m
Crush resistance per TIA/EIA FOTP-41	100 N/cm
Cable flexibility per TIA/EIA FOTP-104	100 cycles
Usage characteristics	
Minimum Bending Radius - Install	3.4 in
Minimum Bend Radius - Install	8.5 cm
Minimum Bending Radius - LongTerm	2.2 in
Minimum Bending Radius - LongTerm	5.7 cm
RoHS compliant	Yes
Recommended operating temperature range	-20 .. 75 °C
Ambient installation temperature, range	-20 .. 75 °C
Recommended storage temperature range	-40 .. 85 °C
Field of application	Indoor

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STANDARD SHEATH COLORS

Fiber Type	Core Size (um)	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								

MANUFACTURING RELEASE

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