

Contact

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Indoor/Outdoor Premises Distribution w/Armor-Tek Riser

144 x OM4 Premises Distribution Indoor/Outdoor Riser Cable with Interlocking Armor

Part Number: PDRK12B144FB3010/F5-I/O(BLA)

Berk-Tek's Riser rated Indoor/Outdoor Premises Distribution cables are designed specifically for LAN/WAN campus and building backbone cabling infrastructure. Armor-Tek Interlocking Armor is wound around the cable core. Suitable for Indoor/Outdoor installations, below the frost line.

Description

Berk-Tek's tight buffered indoor/outdoor riser interlock armored cables are designed for installation in riser and horizontal environments and interbuilding backbone structures.

This design incorporates tight buffered optical fibers within a dry water blocked core cable. Interlock armor and an outer jacket are added over the cable core. 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 in the core cable. 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.

OFCR Rated. Available with aluminum or steel interlock 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.

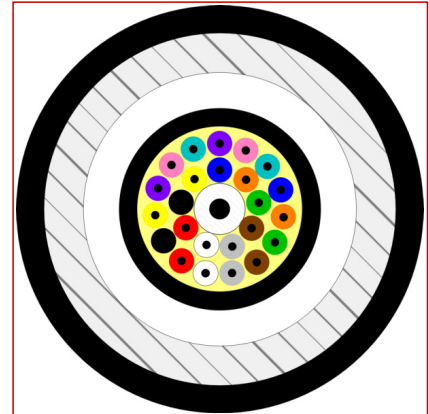
- Tight Buffer fiber cables are not suitable for aerial-lashed installations.

Applications

Berk-Tek's tight buffered Interlocking Armor 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/TIA-568-C.3; Telcordia GR-409

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- Flexible 900 µm tight buffered construction
- High tensile strength cost-saving design, easy to install and terminate
- Six to 144 count fiber construction riser rated indoor/outdoor designs ideal for backbone installations
- Single-mode, multimode, and hybrid designs available
- Also available in low smoke zero halogen design

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	
Fiber optic type	OM4 50/125
Type of cable	Tight Buffered (TB)
Outer sheath	Riser
Sheath colour	Black
Armour type	Aluminum Interlock
Dimensional characteristics	
Number of optical fibres	144
Nominal outer diameter	1.265 in
Nominal outer diameter	32.1 mm
Approximate weight	539 lb/kft
Approximate weight	802 kg/km
Transmission characteristics	
Optical performance	FB (50/125 GIGAlite 10-FB, OM4)
Attenuation, max. 850 nm (cabled)	3.0 dB/km
Attenuation, max. 1300 nm (cabled)	1.0 dB/km
Mechanical characteristics	
Maximum installation tension	1000 lb
Maximum installation tension	4445 N
Max. Load. Long Term (lbs)	300.0 lb
Max. Load. Long Term	1335.0 N
Impacts per TIA/EIA FOTP-25	2 at 8.83 N-m
Crush resistance per TIA/EIA FOTP-41	440 N/cm
Cable flexibility per TIA/EIA FOTP-104	25 cycles
Usage characteristics	
Minimum Bending Radius - Install	19 in
Minimum Bend Radius - Install	48.2 cm
Minimum Bending Radius - LongTerm	12.7 in
Minimum Bending Radius - LongTerm	32.1 cm

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Usage characteristics

RoHS conform	Yes
Operating temperature, range	-40 .. 75 °C
Ambient installation temperature, range	-20 .. 75 °C
Storage temperature, range	-40 .. 85 °C
Field of application	Indoor, Outdoor

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	0.7 dB/km	0.7 dB/km	Black
CB	62.5	OM1	200 MHz-km	200 MHz-km	3.5 dB/km	1.0 dB/km	NS	Black
GB	62.5	OM1+	500 MHz-km	350 MHz-km	3.5 dB/km	1.0 dB/km	NS	Black
ZB	50	OM2	500 MHz-km	500 MHz-km	3.5 dB/km	1.5 dB/km	NS	Black
LB	50	OM2+	950 MHz-km	700 MHz-km	3.0 dB/km	1.0 dB/km	NS	Black
EB	50	OM3	2000 MHz-km	1500 MHz-km	3.0 dB/km	1.0 dB/km	NS	Black
FB	50	OM4	4700 MHz-km	3500 MHz-km	3.0 dB/km	1.0 dB/km	NS	Black
XB	50	OM4+	4900 MHz-km	3675 MHz-km	3.0 dB/km	1.0 dB/km	NS	Black

NS = Not Specified

Manufacturing Release

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