

Contact

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Premises Distribution Plenum Rated Optical Cable

6 x OM1 Premise Distribution Plenum Cable

Part Number: PDP006CB3510/25

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

Description

Construction

- 900 µm buffered fibers surrounded by aramid yarns
- Sheathed using a special, state-of-the-art polymer material
- All dielectric
- OFNP Rated
- Aluminum and Steel interlock armor available

Outdoor Considerations

Black jacketed and water-blocked versions of this plenum cable is available upon request for outdoor installations. Outdoor versions feature UV and fungus resistant jacketing.

Applications

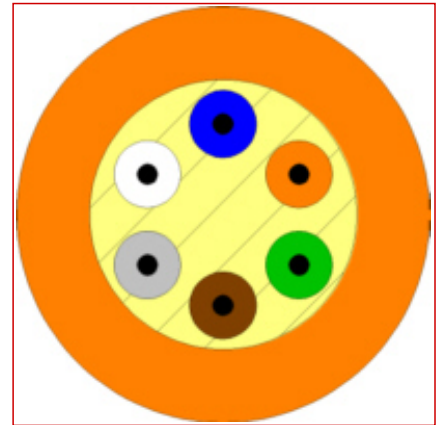
Berk-Tek's tight buffered plenum distribution cable is intended for all high speed data applications including:

- 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

- Single-mode, multimode, GIGAlite™ and hybrid designs available
- Available with new bend-optimized single-mode fibers
- High tensile strength, crush resistant
- Flexible, small diameter, 900 µm tight buffered construction
- Six to 144 count fiber construction plenum designs ideal for horizontal and backbone and installations and along plenums
- Also available in low smoke zero halogen riser rated design
- Configurations available suitable for indoor/outdoor installations in conduit, below the frost line

Benefits



Standards

International EN 50173; ISO/IEC 11801

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

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- 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

Characteristics

Construction characteristics	
Fiber optic type	OM1 62.5/125
Type of cable	Tight Buffered (TB)
Outer sheath	Plenum
Sheath colour	Orange
Dimensional characteristics	
Number of optical fibres	6
Nominal outer diameter	0.18 in
Nominal outer diameter	4.6 mm
Approximate weight	12 lb/kft
Approximate weight	18 kg/km
Transmission characteristics	
Optical performance	CB (62.5/125 Standard, OM1)
Attenuation, max. 850 nm (cabled)	3.5 dB/km
Attenuation, max. 1300 nm (cabled)	1.0 dB/km
Mechanical characteristics	
Maximum installation tension	150 lb
Maximum installation tension	667.0 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	2.7 in
Minimum Bend Radius - Install	6.9 cm
Minimum Bending Radius - LongTerm	1.8 in
Minimum Bending Radius - LongTerm	4.6 cm
RoHS conform	Yes
Operating temperature, range	-20 .. 75 °C
Ambient installation temperature, range	0 .. 75 °C
Storage temperature, range	-40 .. 85 °C
Field of application	Indoor

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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	OS2	NS	NS	NS	0.7 dB/km	0.7 dB/km	Yellow
CB	OM1	200 MHz-km	200 MHz-km	3.5 dB/km	1.0 dB/km	NS	Orange
GB	OM1+	500 MHz-km	350 MHz-km	3.5 dB/km	1.0 dB/km	NS	Orange
ZB	OM2	500 MHz-km	500 MHz-km	3.5 dB/km	1.5 dB/km	NS	Orange
LB	OM2+	950 MHz-km	700 MHz-km	3.0 dB/km	1.0 dB/km	NS	Orange
EB	OM3	2000 MHz-km	1500 MHz-km	3.0 dB/km	1.0 dB/km	NS	Aqua
FB	OM4	4700 MHz-km	3500 MHz-km	3.0 dB/km	1.0 dB/km	NS	Aqua
XB	OM4+	4900 MHz-km	3675 MHz-km	3.0 dB/km	1.0 dB/km	NS	Aqua

NS = Not Specified

Manufacturing Release

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