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Indoor/Outdoor Premises Distribution w/Armor-Tek Plenum

12 x OM3 Premises Distribution Indoor/Outdoor Plenum Cable with Interlocking Armor

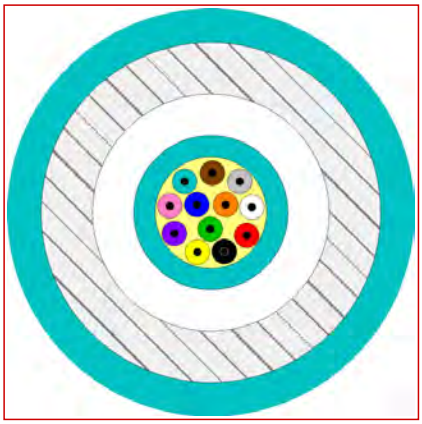
Part Number: PDPK012EB3010/25-I/O-C4C5(AQU)

Berk-Tek's Plenum 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 plenum interlock armored cables are designed for installation in plenum 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 6-24 tight buffered (900 µm) fibers. A glass reinforced (GRP) anti-buckling member is centrally located within the 24 fiber cable design.

OFCP 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 suitible 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 24 count fiber construction plenum 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	OM3 50/125
Type of cable	Tight Buffered (TB)
Jacket Material	Plenum
Sheath colour	Aqua
Armour type	Aluminum Interlock
Dimensional characteristics	
Number of optical fibres	12
Cable diameter (Nominal)	0.523 in
Nominal outer diameter	13.3 mm
Nominal cable weight	87 lb/kft
Approximate weight	129 kg/km
Transmission characteristics	
Optical performance	EB (50/125 GIGAlite-10, OM3)
Attenuation, max. 850 nm (cabled)	3.0 dB/km
Attenuation, max. 1300 nm (cabled)	1.0 dB/km
Mechanical characteristics	
Maximum installation tension	100 lb
Maximum installation tension	445 N
Max. Load. Long Term (lbs)	30.0 lb
Max. Load. Long Term	133.0 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	100 cycles
Usage characteristics	
Minimum Bending Radius - Install	7.8 in
Minimum Bend Radius - Install	19.9 cm
Minimum Bending Radius - LongTerm	5.2 in
Minimum Bending Radius - LongTerm	13.3 cm

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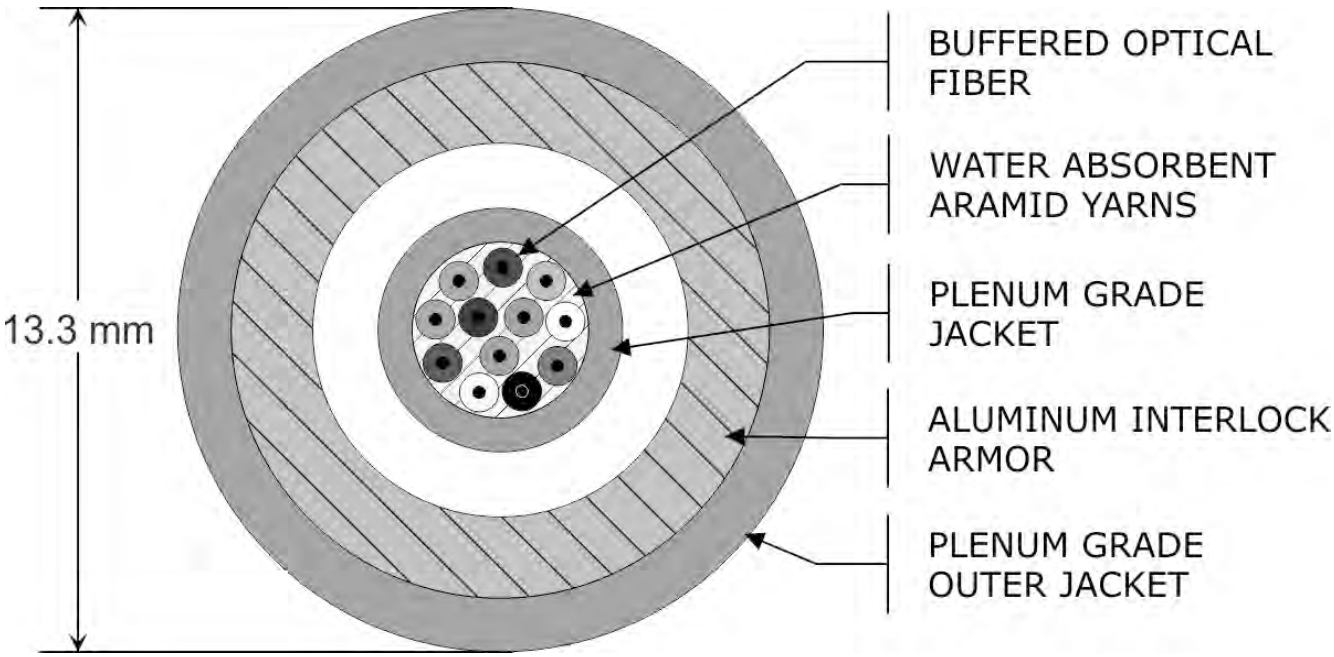
Usage characteristics	
Operating temperature, range	-40 .. 75 °C
Ambient installation temperature, range	0 .. 75 °C
Storage temperature, range	-40 .. 85 °C
Field of application	Indoor, Outdoor

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

Cross-section Diagram - PDPK012-I/O



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

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