

## Premises Distribution w/Armor-Tek Plenum Rated

6 x OM4 Premises Distribution Plenum Cable with Interlocking Armor

Part Number: PDPK006FB3010/F5

Berk-Tek's Premises Distribution cable is a Plenum rated tight buffered design. Armor-Tek Interlocking Armor is wrapped around the Premises Distribution cable core. A plenum rated sheath is the extruded around the interlocking armor.

### Description

#### Construction

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

#### 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.

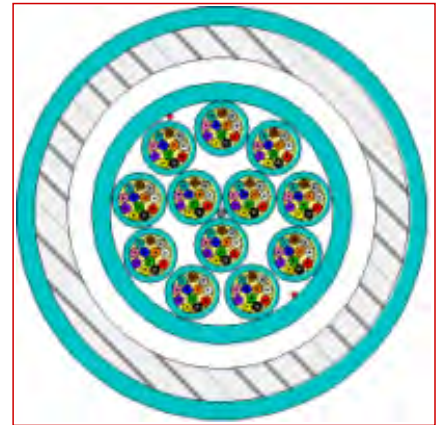
#### Applications

Berk-Tek's tight buffered 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

- 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 core
- 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 design
- Configurations available suitable for indoor/outdoor installations in conduit, below the frost line



#### 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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### Benefits

- Eliminates the need for conduit or plenum innerduct
- Significant cost savings in both materials and labor - up to 25%
- Accommodates last minute relocations or pathway changes
- Provides a higher concentration of cables in an area than conduit
- Can be installed in campus environments due to the durability and indoor/outdoor rating of the cable
- Armor provides crush protection and protection from rodent attacks
- Compliant to NFPA 130 (2010)

### Characteristics

Construction characteristics	
Fiber optic type	OM4 50/125
Type of cable	Tight Buffered (TB)
Outer sheath	Plenum
Sheath colour	Aqua
Armour type	Aluminum Interlock
Dimensional characteristics	
Number of optical fibres	6
Nominal outer diameter	0.495 in
Nominal outer diameter	12.6 mm
Approximate weight	78 lb/kft
Approximate weight	116 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	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	7.4 in
Minimum Bend Radius - Install	18.9 cm
Minimum Bending Radius - LongTerm	5 in
Minimum Bending Radius - LongTerm	12.6 cm
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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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	Yellow
CB	62.5	OM1	200 MHz-km	200 MHz-km	3.5 dB/km	1.0 dB/km	NS	Orange
GB	62.5	OM1+	500 MHz-km	350 MHz-km	3.5 dB/km	1.0 dB/km	NS	Orange
ZB	50	OM2	500 MHz-km	500 MHz-km	3.5 dB/km	1.5 dB/km	NS	Orange
LB	50	OM2+	950 MHz-km	700 MHz-km	3.0 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	Aqua

NS = Not Specified

Manufacturing Release

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