

**Contact**

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## Premises Distribution Plenum Rated Optical Cable

24 x OM4 Premises Distribution Plenum Cable

Part Number: PDP024FB3010/F5

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 cables from 6 to 24 fibers are 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:

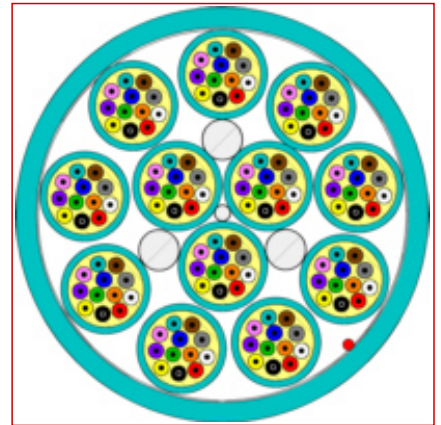
- 10BASE-FL
- 100BASE-SX/100BASE-FX
- ATM 155/ATM 622
- 1000BASE-SX/1000BASE-LX
- Fibre Channel 1.062/2.125
- 10GBASE-SR/SW
- 10GBASE-LX4
- 40/100 GbE

#### 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

- 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-C.3; Telcordia GR-409

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#### Characteristics

<b>Construction characteristics</b>	
Fiber optic type	OM4 50/125
Type of cable	Tight Buffered (TB)
Outer sheath	Plenum
Sheath colour	Aqua
<b>Dimensional characteristics</b>	
Number of optical fibres	24
Nominal outer diameter	0.305 in
Nominal outer diameter	7.7 mm
Approximate weight	41 lb/kft
Approximate weight	61 kg/km
<b>Transmission characteristics</b>	
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
<b>Mechanical characteristics</b>	
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 2.94 N-m
Crush resistance per TIA/EIA FOTP-41	100 N/cm
Cable flexibility per TIA/EIA FOTP-104	100 cycles
<b>Usage characteristics</b>	
Minimum Bending Radius - Install	4.6 in
Minimum Bend Radius - Install	11.6 cm
Minimum Bending Radius - LongTerm	3.1 in
Minimum Bending Radius - LongTerm	7.7 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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#### 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

**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 of actual installation and use are unique and will vary, Berk-Tek makes no representation or warranty as to the reliability, accuracy or completeness of this data, even if Berk-Tek is aware of the product's intended use or purpose. Furthermore, this data does not constitute, nor should it be regarded or relied upon, as professional engineering advice. Installation of cable should only be done by qualified personnel and in conformance with all safety, electrical and other applicable codes, standards, rules or regulations. Appropriate and correct product selection, installation and use, and compliance with all such codes, standards, rules and regulations, is a customer/end-user responsibility. Product specifications, standards, programs or services are subject to improvement or changes without notice. Berk-Tek accepts no liability for typographical errors, technical inaccuracies, omissions or misuse of the information contained herein. Changes will be periodically made to address any such issues.