

**Contact**

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## Premises Distribution Plenum

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

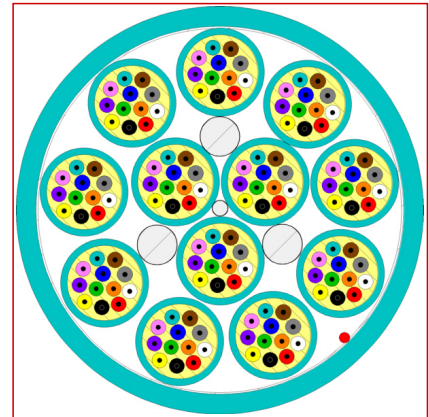
Berk-Tek's tight buffered plenum distribution cable is intended for all high speed data applications including:

- 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	
Type of cable	Tight Buffered (TB)
Usage characteristics	
RoHS conform	Yes
Operating temperature, range	-20 .. 75 °C
Ambient installation temperature, range	0 .. 75 °C
Storage temperature, range	-40 .. 85 °C

### 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	OS1	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

### Physical Characteristics - All Fiber Types

Nb optical fibres	Approximate weight [lb/kft]	Maximum installation tension [lb]	Minimum Bending Radius - LongTerm [in]	Max. Load Long Term (lbs) [lb]	Minimum Bending Radius - Install [in]	Nom. outer diam. [mm]
6	12	150	1.8	45.0	2.7	4.6
12	18	150	2.1	45.0	3.2	5.3
18	29	150	2.6	45.0	3.9	6.7
24	37	150	2.9	45.0	4.3	7.2
24	58	300	5	90.0	7.6	-
48	136	600	5.7	180.0	8.5	14.4
72	212	600	6.8	180.0	10.2	17.2

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Nb optical fibres	Approximate weight [lb/kft]	Maximum installation tension [lb]	Minimum Bending Radius - LongTerm [in]	Max. Load. Long Term (lbs) [lb]	Minimum Bending Radius - Install [in]	Nom. outer diam. [mm]
144	318	1000	9.2	300.0	13.8	23.4

### Product List

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Part Number	Description
🏠 PDP012CB3510/25	12 x OM1 Premise Distribution Plenum Cable
☎ PDP012GB3510/25	12 x OM1+ Premise Distribution Plenum Cable
☎ PDP012ZB3515/15	12 x OM2 Premise Distribution Plenum Cable
🏠 PDP012LB3010/75	12 x OM2+ Premise Distribution Plenum Cable
🏠 PDP012EB3010/25	12 x OM3 Premise Distribution Plenum Cable
☎ PDP012FB3010/F5	12 x OM4 Premise Distribution Plenum Cable
☎ PDP012XB3010/X5	12 x OM4+ Premise Distribution Plenum Cable
🏠 PDP012AB0707	12 x OS1 Premise Distribution Plenum Cable
☎ PDP12B144CB3510/25	144 x OM1 Premise Distribution Plenum Cable
☎ PDP12B144GB3510/25	144 x OM1+ Premise Distribution Plenum Cable
☎ PDP12B144ZB3515/15	144 x OM2 Premise Distribution Plenum Cable
☎ PDP12B144LB3010/75	144 x OM2+ Premise Distribution Plenum Cable
☎ PDP12B144EB3010/25	144 x OM3 Premise Distribution Plenum Cable
☎ PDP12B144FB3010/F5	144 x OM4 Premise Distribution Plenum Cable
☎ PDP12B144XB3010/X5	144 x OM4+ Premise Distribution Plenum Cable
☎ PDP12B144AB0707	144 x OS1 Premise Distribution Plenum Cable
☎ PDP018CB3510/25	18 x OM1 Premise Distribution Plenum Cable
☎ PDP018GB3510/25	18 x OM1+ Premise Distribution Plenum Cable
☎ PDP018ZB3515/15	18 x OM2 Premise Distribution Plenum Cable
☎ PDP018LB3010/75	18 x OM2+ Premise Distribution Plenum Cable
☎ PDP018EB3010/25	18 x OM3 Premise Distribution Plenum Cable
☎ PDP018FB3010/F5	18 x OM4 Premise Distribution Plenum Cable
☎ PDP018XB3010/X5	18 x OM4+ Premise Distribution Plenum Cable
☎ PDP018AB0707	18 x OS1 Premise Distribution Plenum Cable
🏠 PDP024CB3510/25	24 x OM1 Premise Distribution Plenum Cable
☎ PDP12B024CB3510/25	24 x OM1 Premise Distribution Plenum Cable
☎ PDP024GB3510/25	24 x OM1+ Premise Distribution Plenum Cable
☎ PDP12B024GB3510/25	24 x OM1+ Premise Distribution Plenum Cable
☎ PDP024ZB3515/15	24 x OM2 Premise Distribution Plenum Cable
☎ PDP12B024ZB3515/15	24 x OM2 Premise Distribution Plenum Cable
🏠 PDP024LB3010/75	24 x OM2+ Premise Distribution Plenum Cable
☎ PDP12B024LB3010/75	24 x OM2+ Premise Distribution Plenum Cable
🏠 PDP024EB3010/25	24 x OM3 Premise Distribution Plenum Cable
☎ PDP12B024EB3010/25	24 x OM3 Premise Distribution Plenum Cable
☎ PDP024FB3010/F5	24 x OM4 Premise Distribution Plenum Cable
☎ PDP12B024FB3010/F5	24 x OM4 Premise Distribution Plenum Cable

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Part Number	Description
☎ PDP024XB3010/X5	24 x OM4+ Premise Distribution Plenum Cable
☎ PDP12B024XB3010/X5	24 x OM4+ Premise Distribution Plenum Cable
☎ PDP024AB0707	24 x OS1 Premise Distribution Plenum Cable
☎ PDP12B024AB0707	24 x OS1 Premise Distribution Plenum Cable
☎ PDP12B048CB3510/25	48 x OM1 Premise Distribution Plenum Cable
☎ PDP12B048GB3510/25	48 x OM1+ Premise Distribution Plenum Cable
☎ PDP12B048ZB3515/15	48 x OM2 Premise Distribution Plenum Cable
☎ PDP12B048LB3010/75	48 x OM2+ Premise Distribution Plenum Cable
☎ PDP12B048EB3010/25	48 x OM3 Premise Distribution Plenum Cable
☎ PDP12B048FB3010/F5	48 x OM4 Premise Distribution Plenum Cable
☎ PDP12B048XB3010/X5	48 x OM4+ Premise Distribution Plenum Cable
☎ PDP12B048AB0707	48 x OS1 Premise Distribution Plenum Cable
☎ PDP006CB3510/25	6 x OM1 Premise Distribution Plenum Cable
☎ PDP006GB3510/25	6 x OM1+ Premise Distribution Plenum Cable
☎ PDP006ZB3515/15	6 x OM2 Premise Distribution Plenum Cable
☎ PDP006LB3010/75	6 x OM2+ Premise Distribution Plenum Cable
☎ PDP006EB3010/25	6 x OM3 Premise Distribution Plenum Cable
☎ PDP006FB3010/F5	6 x OM4 Premise Distribution Plenum Cable
☎ PDP006XB3010/X5	6 x OM4+ Premise Distribution Plenum Cable
☎ PDP006AB0707	6 x OS1 Premise Distribution Plenum Cable
☎ PDP12B072CB3510/25	72 x OM1 Premise Distribution Plenum Cable
☎ PDP12B072GB3510/25	72 x OM1+ Premise Distribution Plenum Cable
☎ PDP12B072ZB3515/15	72 x OM2 Premise Distribution Plenum Cable
☎ PDP12B072LB3010/75	72 x OM2+ Premise Distribution Plenum Cable
☎ PDP12B072EB3010/25	72 x OM3 Premise Distribution Plenum Cable
☎ PDP12B072FB3010/F5	72 x OM4 Premise Distribution Plenum Cable
☎ PDP12B072XB3010/X5	72 x OM4+ Premise Distribution Plenum Cable
☎ PDP12B072AB0707	72 x OS1 Premise Distribution Plenum Cable
☎ PDP024-012EB3010/25-012AB0707	Hybrid 12xOS1 & 12xOM3 Premise Distribution Plenum Cable
☎ PDP12B036-024EB3010/25-012AB0707	Hybrid 12xOS1 & 24xOM3 Premise Distribution Plenum Cable
☎ PDP12B048-024EB3010/25-024AB0707	Hybrid 24xOS1 & 24xOM3 Premise Distribution Plenum Cable
☎ PDP012-006EB3010/25-006AB0707	Hybrid 6xOS1 & 6xOM3 Premise Distribution Plenum Cable

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### 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

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