

Premises Distribution with Interlocking Armor Plenum

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

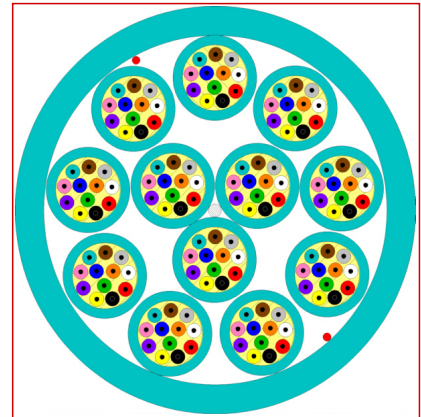
Berk-Tek's tight buffered Interlocking Armor cable is intended for all high speed data applications including:

- 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

Benefits



Standards

International EN 50173; ISO/IEC 11801

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

Premises Distribution with Interlocking Armor Plenum

- 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

Characteristics

Construction characteristics	
Type of cable	Tight Buffered (TB)
Outer sheath	Plenum
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	Minimum Bending Radius - LongTerm [in]	Max. Load. Long Term (lbs) [lb]	Minimum Bending Radius - Install [in]	Approximate weight [lb/kft]	Maximum installation tension [lb]
6	5	45.0	7.4	78	150
12	5.2	45.0	7.8	87	150
18	5.8	45.0	8.8	111	150
24	5.8	45.0	8.8	119	150
36	8.2	90.0	12.3	233	300

Premises Distribution with Interlocking Armor Plenum

Nb optical fibres	Minimum Bending Radius - LongTerm [in]	Max. Load. Long Term (lbs) [lb]	Minimum Bending Radius - Install [in]	Approximate weight [lb/kft]	Maximum installation tension [lb]
48	9.2	180.0	13.8	274	600
72	9.7	180.0	14.6	361	600
144	12.3	300.0	18.4	508	1000

Product List

☎=Make to order, 📦=Make to stock

Part Number	Description
📦 PDPK012CB3510/25	12 x OM1 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK012GB3510/25	12 x OM1+ Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK012ZB3515/15	12 x OM2 Premise Distribution Plenum Cable with Interlocking Armor
📦 PDPK012LB3010/75	12 x OM2+ Premise Distribution Plenum Cable with Interlocking Armor
📦 PDPK012EB3010/25	12 x OM3 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK012FB3010/F5	12 x OM4 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK012XB3010/X5	12 x OM4+ Premise Distribution Plenum Cable with Interlocking Armor
📦 PDPK012AB0707	12 x OS1 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK12B144CB3510/25	144 x OM1 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK12B144GB3510/25	144 x OM1+ Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK12B144ZB3515/15	144 x OM2 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK12B144LB3010/75	144 x OM2+ Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK12B144EB3010/25	144 x OM3 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK12B144FB3010/F5	144 x OM4 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK12B144XB3010/X5	144 x OM4+ Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK12B144AB0707	144 x OS1 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK018CB3510/25	18 x OM1 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK018GB3510/25	18 x OM1+ Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK018ZB3515/15	18 x OM2 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK018LB3010/75	18 x OM2+ Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK018EB3010/25	18 x OM3 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK018FB3010/F5	18 x OM4 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK018XB3010/X5	18 x OM4+ Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK018AB0707	18 x OS1 Premise Distribution Plenum Cable with Interlocking Armor
📦 PDPK024CB3510/25	24 x OM1 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK024GB3510/25	24 x OM1+ Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK024ZB3515/15	24 x OM2 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK024LB3010/75	24 x OM2+ Premise Distribution Plenum Cable with Interlocking Armor
📦 PDPK024EB3010/25	24 x OM3 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK024FB3010/F5	24 x OM4 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK024XB3010/X5	24 x OM4+ Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK024AB0707	24 x OS1 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK12B036CB3510/25	36 x OM1 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK12B036GB3510/25	36 x OM1+ Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK12B036ZB3515/15	36 x OM2 Premise Distribution Plenum Cable with Interlocking Armor

☎ = Make to order, 📦 = Make to stock

Premises Distribution with Interlocking Armor Plenum

Part Number	Description
☎ PDPK12B036LB3010/75	36 x OM2+ Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK12B036EB3010/25	36 x OM3 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK12B036FB3010/F5	36 x OM4 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK12B036XB3010/X5	36 x OM4+ Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK12B036AB0707	36 x OS1 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK12B048CB3510/25	48 x OM1 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK12B048GB3510/25	48 x OM1+ Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK12B048ZB3515/15	48 x OM2 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK12B048LB3010/75	48 x OM2+ Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK12B048EB3010/25	48 x OM3 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK12B048FB3010/F5	48 x OM4 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK12B048XB3010/X5	48 x OM4+ Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK12B048AB0707	48 x OS1 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK006CB3510/25	6 x OM1 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK006GB3510/25	6 x OM1+ Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK006ZB3515/15	6 x OM2 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK006LB3010/75	6 x OM2+ Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK006EB3010/25	6 x OM3 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK006FB3010/F5	6 x OM4 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK006XB3010/X5	6 x OM4+ Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK006AB0707	6 x OS1 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK12B072CB3510/25	72 x OM1 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK12B072GB3510/25	72 x OM1+ Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK12B072ZB3515/15	72 x OM2 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK12B072LB3010/75	72 x OM2+ Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK12B072EB3010/25	72 x OM3 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK12B072FB3010/F5	72 x OM4 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK12B072XB3010/X5	72 x OM4+ Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK12B072AB0707	72 x OS1 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK024-012XB3010/X5-012AB0707	Hybrid 12 x OM4+ & 12 x OS1 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK024-012EB3010/25-012AB0707	Hybrid 12xOS1 & 12xOM3 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK12B036-024EB3010/25-012AB0707	Hybrid 12xOS1 & 24xOM3 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK12B048-024XB3010/X5-024AB0707	Hybrid 24 x OM4+ & 24 x OS1 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK12B048-024EB3010/25-024AB0707	Hybrid 24xOS1 & 24xOM3 Premise Distribution Plenum Cable with Interlocking Armor
☎ PDPK012-006EB3010/25-006AB0707	Hybrid 6xOS1 & 6xOM3 Premise Distribution Plenum Cable with Interlocking Armor

☎ = Make to order, ☎ = Make to stock

Premises Distribution with Interlocking Armor Plenum

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.