

Outside Plant Single Armor Double Jacket

Berk-Tek's Outside Plant Single Armor Double Jacket Loose Tube fiber optic cables are designed for installation in harsh environments such as direct burial, aerial lashing, conduit and pathways that are subjected to wide temperature variations. The Armored Outside Plant product incorporates a corrugated steel armor tape between two jackets surrounding the core and is offered with 2 - 216 fibers per cable. These cables are thoroughly tested and verified to Telcordia GR-20 and ICEA-640 for outside cabling systems.

Description

Berk-Tek's Outdoor Single Armor Double Jacket Loose Tube cables are available in multimode, single-mode and GIGALite™ fibers.

Buffer Tube Construction

Gel-filled tubes containing up to 12, 250 µm, individually colored fibers.

Outdoor Consideration

Berk-Tek recommends that loose tube cables be utilized in an outside plant installation environment. Loose tube cables are especially recommended if the interbuilding conduit system is above the frost line and likely to fill with water.

Applications

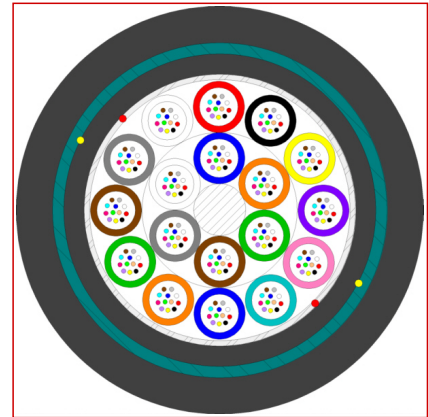
Berk-Tek's Outdoor Loose Tube fiber optic cable is intended for all high speed data applications, including:

- 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

- High tensile strength, crush resistant and small diameter design.
- Single-mode, multimode and hybrid design options available.
- Support Token Ring, 10BASE-F, Gigabit Ethernet, Fast Ethernet, FOIRL, Fibre Channel FC-PH, ATM, FDDI, Sonet, voice, video and other networking systems.
- Corrugated steel armor provides crush and rodent resistance.
- Fully water-blocked core using dry water blocking system.
- Also available in Low Smoke Zero Halogen and Armored designs.

Benefits



Standards

International EN 50173; ISO/IEC 11801

National ANSI/ICEA S-104-696; ANSI/ICEA S-87-640; TIA/EIA-568-B ; Telcordia GR-20; Telcordia GR-409

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- Provides for greater pulling distances thus reducing installation time.
- Broad design selection allows for mix and match of fiber components to specific networking applications.
- One cable design meeting all structured cabling applications .
- Long-term reliability.
- Low cable plant maintenance, ease of installation.
- Reduce network costs.

Characteristics

Construction characteristics	
Outer sheath	Polyethylene
Usage characteristics	
RoHS conform	Yes
Operating temperature, range	-40 .. 75 °C
Ambient installation temperature, range	-30 .. 60 °C
Storage temperature, range	-60 .. 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	OS2	NS	NS	NS	0.4 dB/km	0.3 dB/km	Black
CB	OM1	200 MHz-km	200 MHz-km	3.5 dB/km	1.0 dB/km	NS	Black
GB	OM1	500 MHz-km	350 MHz-km	3.5 dB/km	1.0 dB/km	NS	Black
ZB	OM2	500 MHz-km	500 MHz-km	3.5 dB/km	1.5 dB/km	NS	Black
LB	OM2+	950 MHz-km	700 MHz-km	3.0 dB/km	1.0 dB/km	NS	Black
EB	OM3	2000 MHz-km	1500 MHz-km	3.0 dB/km	1.0 dB/km	NS	Black
FB	OM4	4700 MHz-km	3500 MHz-km	3.0 dB/km	1.0 dB/km	NS	Black
XB	OM4+	4900 MHz-km	3675 MHz-km	3.0 dB/km	1.0 dB/km	NS	Black

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]
2	8.6	135.0	11.4	137	450
4	8.6	135.0	11.4	137	450
6	8.6	135.0	11.4	138	450
12	8.6	135.0	11.4	139	450
12	9.3	180.0	12.4	144	600
18	9.3	180.0	12.4	144	600
24	9.3	180.0	12.4	144	600

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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	9.3	180.0	12.4	150	600
72	9.9	180.0	13.2	181	600
144	13.4	180.0	17.9	291	600
216	13.8	180.0	18.4	302	600

Product List

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Part Number	Description
☎ OPA002EB3010/25	Outside Plant, Single Armor 002 Fiber, 50/125 micron, 2000/500 MHz•km
☎ OPA002FB3010/F5	Outside Plant, Single Armor 002 Fiber, 50/125 micron, 4700/500 MHz•km
☎ OPA002XB3010/X5	Outside Plant, Single Armor 002 Fiber, 50/125 micron, 4900/500 MHz•km
☎ OPA002ZB3515/15	Outside Plant, Single Armor 002 Fiber, 50/125 micron, 500/500 MHz•km FDDI
☎ OPA002LB3010/75	Outside Plant, Single Armor 002 Fiber, 50/125 micron, 950/500 MHz•km
☎ OPA002CB3510/25	Outside Plant, Single Armor 002 Fiber, 62.5/125 micron, 200/500 MHz•km
☎ OPA002GB3510/25	Outside Plant, Single Armor 002 Fiber, 62.5/125 micron, GIGALite 200/500 MHz•km
☎ OPA002AB0403	Outside Plant, Single Armor 002 Fiber, Enhanced Single-Mode
☎ OPA004EB3010/25	Outside Plant, Single Armor 004 Fiber, 50/125 micron, 2000/500 MHz•km
☎ OPA004FB3010/F5	Outside Plant, Single Armor 004 Fiber, 50/125 micron, 4700/500 MHz•km
☎ OPA004XB3010/X5	Outside Plant, Single Armor 004 Fiber, 50/125 micron, 4900/500 MHz•km
☎ OPA004ZB3515/15	Outside Plant, Single Armor 004 Fiber, 50/125 micron, 500/500 MHz•km FDDI
☎ OPA004LB3010/75	Outside Plant, Single Armor 004 Fiber, 50/125 micron, 950/500 MHz•km
☎ OPA004CB3510/25	Outside Plant, Single Armor 004 Fiber, 62.5/125 micron, 200/500 MHz•km
☎ OPA004GB3510/25	Outside Plant, Single Armor 004 Fiber, 62.5/125 micron, GIGALite 200/500 MHz•km
☎ OPA004AB0403	Outside Plant, Single Armor 004 Fiber, Enhanced Single-Mode
☎ OPA006EB3010/25	Outside Plant, Single Armor 006 Fiber, 50/125 micron, 2000/500 MHz•km
☎ OPA006FB3010/F5	Outside Plant, Single Armor 006 Fiber, 50/125 micron, 4700/500 MHz•km
☎ OPA006XB3010/X5	Outside Plant, Single Armor 006 Fiber, 50/125 micron, 4900/500 MHz•km
☎ OPA006ZB3515/15	Outside Plant, Single Armor 006 Fiber, 50/125 micron, 500/500 MHz•km FDDI
☎ OPA006LB3010/75	Outside Plant, Single Armor 006 Fiber, 50/125 micron, 950/500 MHz•km
☎ OPA006CB3510/25	Outside Plant, Single Armor 006 Fiber, 62.5/125 micron, 200/500 MHz•km
☎ OPA006GB3510/25	Outside Plant, Single Armor 006 Fiber, 62.5/125 micron, GIGALite 200/500 MHz•km
☎ OPA006AB0403	Outside Plant, Single Armor 006 Fiber, Enhanced Single-Mode
☎ OPA012EB3010/25	Outside Plant, Single Armor 012 Fiber, 50/125 micron, 2000/500 MHz•km
☎ OPAD12B012EB3010/25	Outside Plant, Single Armor 012 Fiber, 50/125 micron, 2000/500 MHz•km
☎ OPA012FB3010/F5	Outside Plant, Single Armor 012 Fiber, 50/125 micron, 4700/500 MHz•km
☎ OPAD12B012FB3010/F5	Outside Plant, Single Armor 012 Fiber, 50/125 micron, 4700/500 MHz•km
☎ OPA012XB3010/X5	Outside Plant, Single Armor 012 Fiber, 50/125 micron, 4900/500 MHz•km
☎ OPAD12B012XB3010/X5	Outside Plant, Single Armor 012 Fiber, 50/125 micron, 4900/500 MHz•km
☎ OPA012ZB3515/15	Outside Plant, Single Armor 012 Fiber, 50/125 micron, 500/500 MHz•km FDDI
☎ OPAD12B012ZB3515/15	Outside Plant, Single Armor 012 Fiber, 50/125 micron, 500/500 MHz•km FDDI
☎ OPA012LB3010/75	Outside Plant, Single Armor 012 Fiber, 50/125 micron, 950/500 MHz•km
☎ OPAD12B012LB3010/75	Outside Plant, Single Armor 012 Fiber, 50/125 micron, 950/500 MHz•km

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Part Number	Description
☎ OPA012CB3510/25	Outside Plant, Single Armor 012 Fiber, 62.5/125 micron, 200/500 MHz•km
☎ OPAD12B012CB3510/25	Outside Plant, Single Armor 012 Fiber, 62.5/125 micron, 200/500 MHz•km
☎ OPA012GB3510/25	Outside Plant, Single Armor 012 Fiber, 62.5/125 micron, GIGALite 200/500 MHz•km
☎ OPAD12B012GB3510/25	Outside Plant, Single Armor 012 Fiber, 62.5/125 micron, GIGALite 200/500 MHz•km
☎ OPA012AB0403	Outside Plant, Single Armor 012 Fiber, Enhanced Single-Mode
☎ OPAD12B012AB0403	Outside Plant, Single Armor 012 Fiber, Enhanced Single-Mode
☎ OPAD12B018EB3010/25	Outside Plant, Single Armor 018 Fiber, 50/125 micron, 2000/500 MHz•km
☎ OPAD12B018FB3010/F5	Outside Plant, Single Armor 018 Fiber, 50/125 micron, 4700/500 MHz•km
☎ OPAD12B018XB3010/X5	Outside Plant, Single Armor 018 Fiber, 50/125 micron, 4900/500 MHz•km
☎ OPAD12B018ZB3515/15	Outside Plant, Single Armor 018 Fiber, 50/125 micron, 500/500 MHz•km FDDI
☎ OPAD12B018LB3010/75	Outside Plant, Single Armor 018 Fiber, 50/125 micron, 950/500 MHz•km
☎ OPAD12B018CB3510/25	Outside Plant, Single Armor 018 Fiber, 62.5/125 micron, 200/500 MHz•km
☎ OPAD12B018GB3510/25	Outside Plant, Single Armor 018 Fiber, 62.5/125 micron, GIGALite 200/500 MHz•km
☎ OPAD12B018AB0403	Outside Plant, Single Armor 018 Fiber, Enhanced Single-Mode
☎ OPAD12B024EB3010/25	Outside Plant, Single Armor 024 Fiber, 50/125 micron, 2000/500 MHz•km
☎ OPAD12B024FB3010/F5	Outside Plant, Single Armor 024 Fiber, 50/125 micron, 4700/500 MHz•km
☎ OPAD12B024XB3010/X5	Outside Plant, Single Armor 024 Fiber, 50/125 micron, 4900/500 MHz•km
☎ OPAD12B024ZB3515/15	Outside Plant, Single Armor 024 Fiber, 50/125 micron, 500/500 MHz•km FDDI
☎ OPAD12B024LB3010/75	Outside Plant, Single Armor 024 Fiber, 50/125 micron, 950/500 MHz•km
☎ OPAD12B024CB3510/25	Outside Plant, Single Armor 024 Fiber, 62.5/125 micron, 200/500 MHz•km
☎ OPAD12B024GB3510/25	Outside Plant, Single Armor 024 Fiber, 62.5/125 micron, GIGALite 200/500 MHz•km
☎ OPAD12B024AB0403	Outside Plant, Single Armor 024 Fiber, Enhanced Single-Mode
☎ OPAD12B048EB3010/25	Outside Plant, Single Armor 048 Fiber, 50/125 micron, 2000/500 MHz•km
☎ OPAD12B048FB3010/F5	Outside Plant, Single Armor 048 Fiber, 50/125 micron, 4700/500 MHz•km
☎ OPAD12B048XB3010/X5	Outside Plant, Single Armor 048 Fiber, 50/125 micron, 4900/500 MHz•km
☎ OPAD12B048ZB3515/15	Outside Plant, Single Armor 048 Fiber, 50/125 micron, 500/500 MHz•km FDDI
☎ OPAD12B048LB3010/75	Outside Plant, Single Armor 048 Fiber, 50/125 micron, 950/500 MHz•km
☎ OPAD12B048CB3510/25	Outside Plant, Single Armor 048 Fiber, 62.5/125 micron, 200/500 MHz•km
☎ OPAD12B048GB3510/25	Outside Plant, Single Armor 048 Fiber, 62.5/125 micron, GIGALite 200/500 MHz•km
☎ OPAD12B048AB0403	Outside Plant, Single Armor 048 Fiber, Enhanced Single-Mode
☎ OPAD12B072EB3010/25	Outside Plant, Single Armor 072 Fiber, 50/125 micron, 2000/500 MHz•km
☎ OPAD12B072FB3010/F5	Outside Plant, Single Armor 072 Fiber, 50/125 micron, 4700/500 MHz•km
☎ OPAD12B072XB3010/X5	Outside Plant, Single Armor 072 Fiber, 50/125 micron, 4900/500 MHz•km
☎ OPAD12B072ZB3515/15	Outside Plant, Single Armor 072 Fiber, 50/125 micron, 500/500 MHz•km FDDI
☎ OPAD12B072LB3010/75	Outside Plant, Single Armor 072 Fiber, 50/125 micron, 950/500 MHz•km
☎ OPAD12B072CB3510/25	Outside Plant, Single Armor 072 Fiber, 62.5/125 micron, 200/500 MHz•km
☎ OPAD12B072GB3510/25	Outside Plant, Single Armor 072 Fiber, 62.5/125 micron, GIGALite 200/500 MHz•km
☎ OPAD12B072AB0403	Outside Plant, Single Armor 072 Fiber, Enhanced Single-Mode
☎ OPAD12B144EB3010/25	Outside Plant, Single Armor 144 Fiber, 50/125 micron, 2000/500 MHz•km
☎ OPAD12B144FB3010/F5	Outside Plant, Single Armor 144 Fiber, 50/125 micron, 4700/500 MHz•km
☎ OPAD12B144XB3010/X5	Outside Plant, Single Armor 144 Fiber, 50/125 micron, 4900/500 MHz•km
☎ OPAD12B144ZB3515/15	Outside Plant, Single Armor 144 Fiber, 50/125 micron, 500/500 MHz•km FDDI
☎ OPAD12B144LB3010/75	Outside Plant, Single Armor 144 Fiber, 50/125 micron, 950/500 MHz•km

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☎ OPAD12B144CB3510/25	Outside Plant, Single Armor 144 Fiber, 62.5/125 micron, 200/500 MHz•km
☎ OPAD12B144GB3510/25	Outside Plant, Single Armor 144 Fiber, 62.5/125 micron, GIGALite 200/500 MHz•km
☎ OPAD12B144AB0403	Outside Plant, Single Armor 144 Fiber, Enhanced Single-Mode
☎ OPAD12B216EB3010/25	Outside Plant, Single Armor 216 Fiber, 50/125 micron, 2000/500 MHz•km
☎ OPAD12B216FB3010/F5	Outside Plant, Single Armor 216 Fiber, 50/125 micron, 4700/500 MHz•km
☎ OPAD12B216XB3010/X5	Outside Plant, Single Armor 216 Fiber, 50/125 micron, 4900/500 MHz•km
☎ OPAD12B216ZB3515/15	Outside Plant, Single Armor 216 Fiber, 50/125 micron, 500/500 MHz•km FDDI
☎ OPAD12B216LB3010/75	Outside Plant, Single Armor 216 Fiber, 50/125 micron, 950/500 MHz•km
☎ OPAD12B216CB3510/25	Outside Plant, Single Armor 216 Fiber, 62.5/125 micron, 200/500 MHz•km
☎ OPAD12B216GB3510/25	Outside Plant, Single Armor 216 Fiber, 62.5/125 micron, GIGALite 200/500 MHz•km
☎ OPAD12B216AB0403	Outside Plant, Single Armor 216 Fiber, Enhanced Single-Mode

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Manufacturing Release

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