

Contact

Fiber LAN Product Inquiry
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Outside Plant Dry Loose Tube

12 x OS2 Outside Plant Dry Loose Tube

Part Number: LTD12B012AB0403-M2

Berk-Tek's Outside Plant 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 Dry Loose Tube Outside Plant product is offered with 2 - 288 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 Dry Tube Jacket Loose Tube cables are available in multimode, single-mode and GIGAlite™ fibers.

Buffer Tube Construction

Tubes contain water-blocking yarn and 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:

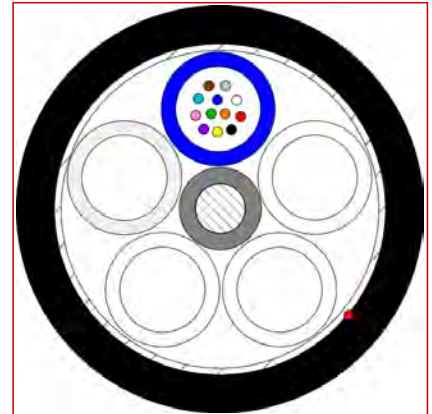
- 10BASE-FL
- 100BASE-SX/100BASE-FX
- ATM 155/ATM 622
- 1000BASE-SX/1000BASE-LX
- Fibre Channel 1.062/2.125
- 10GBASE-SR/SW
- 10GBASE-LX4
- 40/100 GbE

Features

- High tensile strength, crush resistant and small diameter design.
- Single-mode, multimode and hybrid design options available.
- Fully water-blocked core using dry water blocking system.

Benefits

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



Standards

National ANSI/ICEA S-87-640; ANSI/TIA-568-C.3; Telcordia GR-20

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Characteristics

Construction characteristics	
Fiber optic type	SM (G657.A1)
Type of cable	Loose tube
Jacket Material	Polyethylene
Sheath colour	Black
Dimensional characteristics	
Tube diameter	2.5 mm
Number of optical fibres	12
Cable diameter (Nominal)	0.398 in
Nominal outer diameter	10.1 mm
Nominal cable weight	47 lb/kft
Approximate weight	70 kg/km
Transmission characteristics	
Optical performance	AB (Single-mode, OS2)
Attenuation, max. 1310 nm (cabled)	0.4 dB/km
Attenuation, max. 1550 nm (cabled)	0.3 dB/km
Mechanical characteristics	
Maximum installation tension	600 lb
Maximum installation tension	2700 N
Max. Load. Long Term (lbs)	180.0 lb
Max. Load. Long Term	800.0 N
Crush resistance per TIA/EIA FOTP-41	220 N/cm
Cable flexibility per TIA/EIA FOTP-104	25 cycles
Usage characteristics	
Minimum Bending Radius - Install	6 in
Minimum Bend Radius - Install	15.2 cm
Minimum Bending Radius - LongTerm	4 in
Minimum Bending Radius - LongTerm	10.1 cm
RoHS conform	Yes
Operating temperature, range	-60 .. 70 °C
Ambient installation temperature, range	-30 .. 70 °C
Storage temperature, range	-40 .. 75 °C
Field of application	Outdoor

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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	0.3 dB/km	0.2 dB/km	Black
AB	8.3	OS2	NS	NS	NS	0.4 dB/km	0.3 dB/km	Black
CB	62.5	OM1	200 MHz-km	200 MHz-km	3.5 dB/km	1.0 dB/km	NS	Black
GB	62.5	OM1+	500 MHz-km	350 MHz-km	3.5 dB/km	1.0 dB/km	NS	Black
ZB	50	OM2	500 MHz-km	500 MHz-km	3.5 dB/km	1.5 dB/km	NS	Black
LB	50	OM2+	950 MHz-km	700 MHz-km	3.0 dB/km	1.0 dB/km	NS	Black
EB	50	OM3	2000 MHz-km	1500 MHz-km	3.0 dB/km	1.0 dB/km	NS	Black
FB	50	OM4	4700 MHz-km	3500 MHz-km	3.0 dB/km	1.0 dB/km	NS	Black
XB	50	OM4+	4900 MHz-km	3675 MHz-km	3.0 dB/km	1.0 dB/km	NS	Black

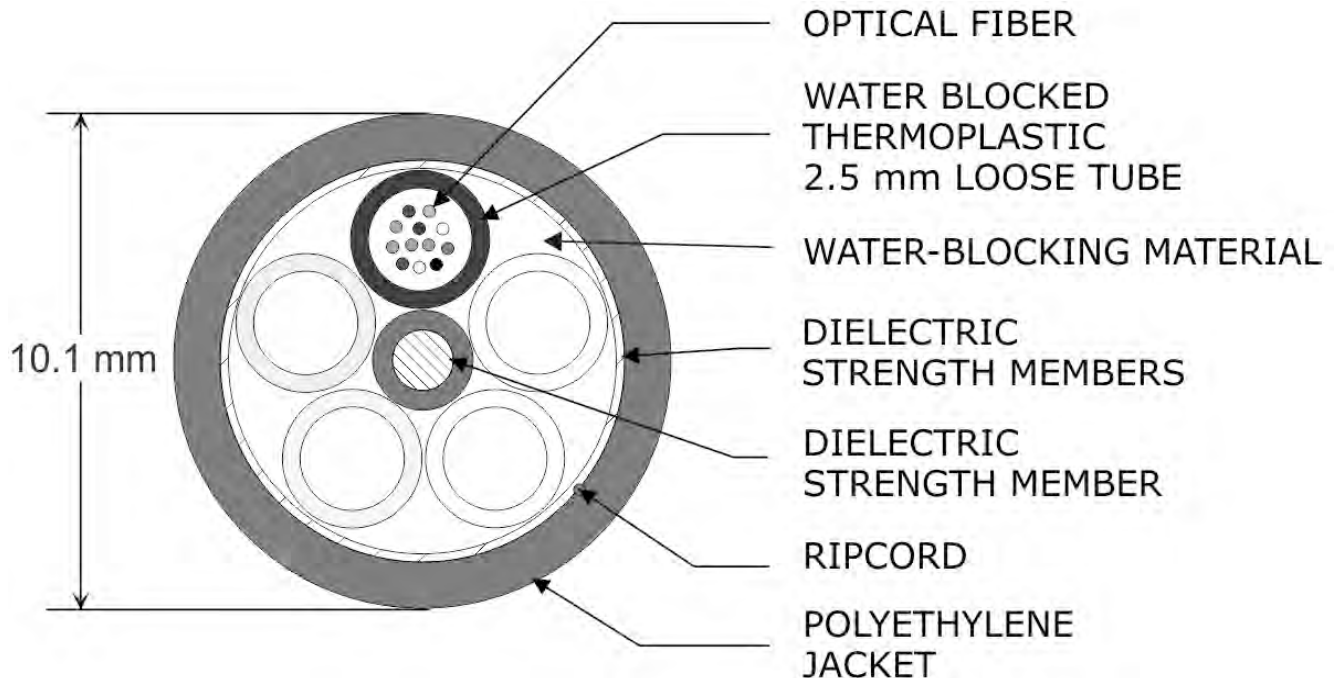
NS = Not Specified

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Cross-section Diagram - LTD12B012-M2



Manufacturing Release

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