

Contact

Fiber LAN Product Inquiry
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Outside Plant Dry Loose Tube - Single Armor Single Jacket

48 x OS2 Outside Plant Dry Loose Tube Single Armor Single Jacket

Part Number: LTAD12B048AB0403-1A1J-M2

Berk-Tek's Outside Plant Dry Loose Tube Single Armor Single Jacket 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 Single Armor Single Jacket 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 Single Armor Single Jacket 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:

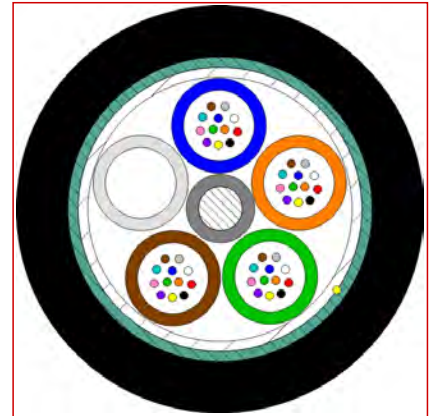
- 10BASE-FL
- 100BASE-SX/100BASE-FX
- ATM 155/ATM 622
- 1000BASE-SX/1000BASE-LX
- Fibre Channel 1.062/2.125
- 10GBASE-SR/SW
- 10GBASE-LX4
- 40/100 GbE

Features

- High tensile strength, crush resistant and small diameter design.
- Single-mode, multimode and hybrid design options available.
- Corrugated steel armor provides crush and rodent resistance.
- 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 | 48 |
| Cable diameter (Nominal) | 0.45 in |
| Nominal outer diameter | 11.3 mm |
| Nominal cable weight | 84 lb/kft |
| Approximate weight | 125 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 |
| Usage characteristics | |
| Minimum Bending Radius - Install | 6.8 in |
| Minimum Bend Radius - Install | 17 cm |
| Minimum Bending Radius - LongTerm | 4.5 in |
| Minimum Bending Radius - LongTerm | 11.3 cm |
| RoHS conform | Yes |
| Operating temperature, range | -60 .. 70 °C |
| Ambient installation temperature, range | -30 .. 60 °C |
| Storage temperature, range | -40 .. 75 °C |
| Field of application | Outdoor |

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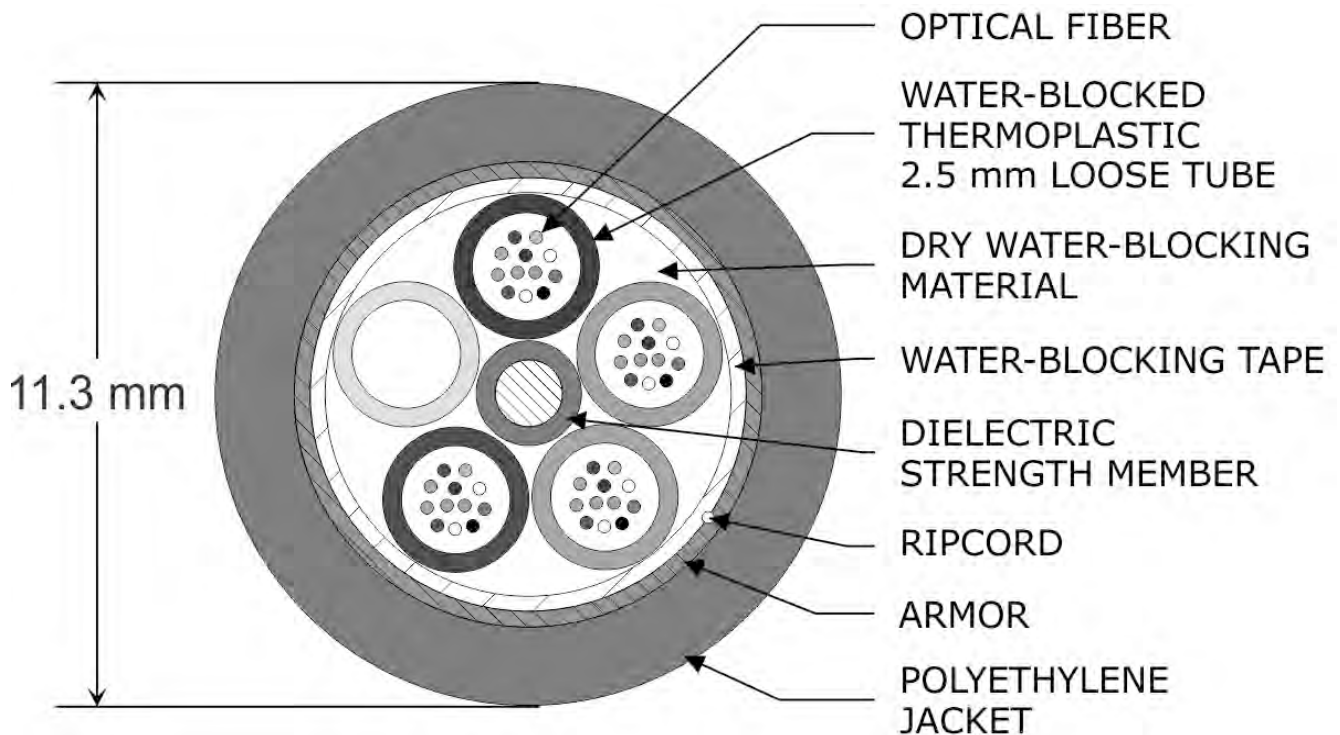
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Sheath Colors

| 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

Cross-section Diagram - LTAD12B048-1A1J-M2



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 product should only be done by qualified

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