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Adventum Plenum Rated Indoor/Outdoor Optical Cable

6 x OM3 Adventum Plenum Cable

Part Number: LTP006EB3010/25

Berk-Tek's revolutionary Outdoor/Indoor Adventum™ cables are designed to be used in plenum rated environments. Adventum supports the latest Gigabit Communications Protocols, including Gigabit Ethernet and ATM. This cable design utilizes Berk-Tek's unique DryGel™ waterblocking system. DryGel technology utilizes super absorbent polymers to replace the messy gel filler inside the fiber tubes. It is the only fire-rated cable designed to withstand the rigors of the outside plant environment. Adventum is rated for plenum installations and has no gel filler.

Description

Berk-Tek's loose tube cable design can be used in all typical campus and outdoor/indoor installations, and is available with standard multimode, single-mode and GIGAlite™ fibers. This design affords the installer the ability to place cable anywhere in a network, bypassing the traditional transition points required in most installations. Adventum plenum cable (U.S. Patent No. 6,178,278) is available in 2 to 432 count fiber constructions. These cables have been thoroughly tested in accordance with Telcordia GR-409, ICEA-640, and ICEA-696 standards where applicable.

BUFFER TUBE CONSTRUCTION

DryGel blocked color coded loose tubes containing up to 12, 250 μm, individually colored fibers.

APPLICATIONS

Berk-Tek recommends installation procedures per ANSI/TIA-758, Customer-owned Outside Plant Telecommunications Infrastructure Standard.

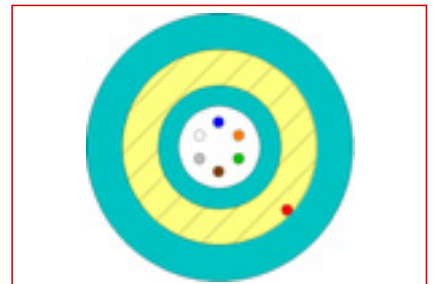
Berk-Tek's Adventum Loose Tube, plenum rated fiber optic cable is intended for all high speed data applications, including:

- 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

- Designed to support Gigabit Ethernet, Gigabit ATM, Fibre Channel and other high-speed applications
- Plenum rating enables installation to go directly from outside plant to riser shaft or through plenum spaces
- Cable core and buffer tubes use DryGel water blocking system
- All dielectric design

BENEFITS



Standards

International EN 50173; ISO/IEC 11801

National ANSI/ICEA S-104-696; ANSI/ICEA S-87-640; ANSI/TIA-568-C.3; Telcordia GR-409

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- Compact, water blocked, plenum rated, flexible loose tube design of all dielectric construction allows for installation in any outside plant or interior space
- No cleaning of gels required for installation, greatly reducing installation time and cost
- Transition points in network are not needed
- System grounding requirements are eliminated

Characteristics

| Construction characteristics | |
|---|------------------------------|
| Fiber optic type | OM3 50/125 |
| Type of cable | Loose tube |
| Outer sheath | Plenum |
| Sheath colour | Aqua |
| Dimensional characteristics | |
| Tube diameter | 3 mm |
| Number of optical fibres | 6 |
| Nominal outer diameter | 0.26 in |
| Nominal outer diameter | 6.6 mm |
| Approximate weight | 30 lb/kft |
| Approximate weight | 45 kg/km |
| Transmission characteristics | |
| Optical performance | EB (50/125 GIGAlite-10, OM3) |
| Attenuation, max. 850 nm (cabled) | 3.0 dB/km |
| Attenuation, max. 1300 nm (cabled) | 1.0 dB/km |
| Mechanical characteristics | |
| Maximum installation tension | 300 lb |
| Maximum installation tension | 1335.0 N |
| Max. Load. Long Term (lbs) | 90.0 lb |
| Max. Load. Long Term | 400.0 N |
| Impacts per TIA/EIA FOTP-25 | 2 at 4.41 N-m |
| Crush resistance per TIA/EIA FOTP-41 | 110 N/cm |
| Cable flexibility per TIA/EIA FOTP-104 | 500 cycles |
| Usage characteristics | |
| Minimum Bending Radius - Install | 3.9 in |
| Minimum Bend Radius - Install | 9.9 cm |
| Minimum Bending Radius - LongTerm | 2.6 in |
| Minimum Bending Radius - LongTerm | 6.6 cm |
| RoHS conform | Yes |
| Operating temperature, range | -40 .. 75 °C |
| Ambient installation temperature, range | -20 .. 60 °C |
| Storage temperature, range | -60 .. 85 °C |
| Field of application | Indoor, Outdoor |

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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 | 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

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.

Selling delivery information

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