

Indoor/Outdoor Riser Adventum® (LTR)

6 x OM3 Adventum Riser Cable

Contact

Copper LAN Product Inquiry
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Part Number: LTR006EB3010/25

Berk-Tek's revolutionary Outdoor/Indoor Adventum cables are designed to be used in riser rated environments. Adventum supports the latest Gigabit Communications Protocols, including Gigabit Ethernet and ATM. This cable design utilizes DryGel waterblocking technology with super absorbent polymers that 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 riser 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 Riser cable is available in 6 to 432 count fiber constructions. These cables are suitable for Tray installations industrial environments, and have been thoroughly tested in accordance with Telcordia GR-409 Issue 2, ICEA-596 Edition 3, and ICEA-696 Edition 2 standards where applicable.

Buffer Tube Construction

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

Applications

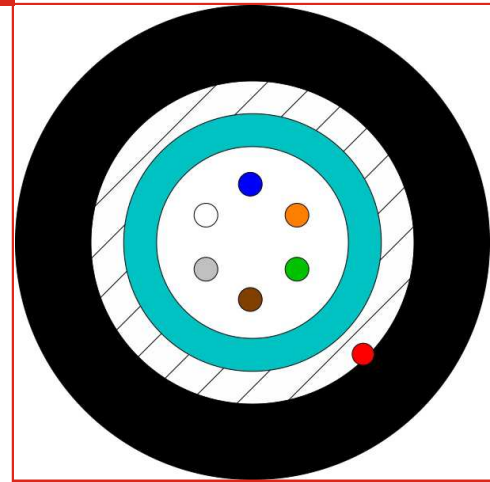
Berk-Tek recommends installation procedures per ANSI/TIA-758, Customer-owned Outside Plant Telecommunications Infrastructure Standard.

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

- ETHERNET: 10BASE – 40GBASE (10BASE, 100BASE, 1000BASE, 10GBASE, 40GBASE, 100GBASE, 400GBASE)
- Fibre Channel: 1G-FC – 128GFC (1, 2, 4, 8, 16, 32, 128 GFC)
- SONET: OC-1 – OC-768 (OC -1, 3, 12, 24, 48, 192, 768)
- SDH: STM-0 – STM-256 (STM-0, 1, 4, 16, 64, 256)
- OTN: OTU-1 – OTU4 (OTU1, 2, 2e, 2f, 3, 3e2, 4)
- CPRI: CPRI-1 – CPRI-9 (CPRI-1, 2, 3, 4, 5, 6, 7, 7a, 8, 9)
- PON (SMF only): RFoG, APON, BPON, EPON, GPON, WDM-PON, NG-PON

Features

- Designed to support Gigabit Ethernet, Gigabit ATM, Fibre Channel and other high-speed applications
- Riser rating enables installation to go directly from outside plant to riser shaft
- Cable Core and Buffer Tubes use DryGel water blocking system
- Sunlight resistant outer jacket per UL 444 clause 7.22 protects the cable in outside plant installations
- Aluminum Interlocking Armor Available



STANDARDS

International EN 50173; ISO/IEC 11801

National ANSI/ICEA S-104-696; ANSI/ICEA S-83-596; ANSI/TIA-568.3-D; Telcordia GR-409

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Benefits

- Compact, water blocked, riser 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
Jacket Material	Riser
Sheath colour	Black

Dimensional characteristics

Tube diameter	3 mm
Number of optical fibres	6
Cable diameter (Nominal)	0.255 in
Nominal outer diameter	6.5 mm
Nominal cable weight	29 lb/kft
Approximate weight	44 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 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	100 cycles

Usage characteristics

Minimum Bending Radius - Install	3.8 in
Minimum Bend Radius - Install	9.7 cm
Minimum Bending Radius - LongTerm	2.6 in
Minimum Bending Radius - LongTerm	6.5 cm
RoHS compliant	Yes
Recommended operating temperature range	-40 .. 75 °C
Ambient installation temperature, range	-20 .. 60 °C
Recommended storage temperature range	-60 .. 85 °C

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Usage characteristics

Field of application

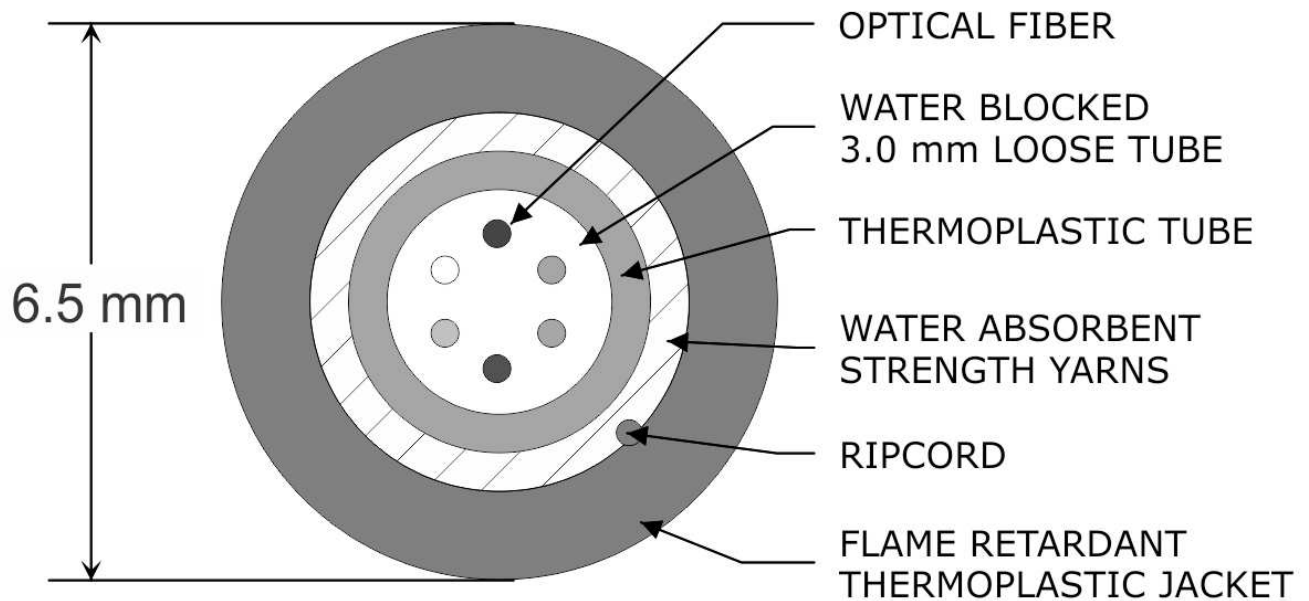
Indoor, Outdoor

STANDARD 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	0.4 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
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 - LTR006



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 personnel and in conformance with all safety, electrical and other applicable codes, standards, rules or regulations. Appropriate and correct product selection, installation and

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