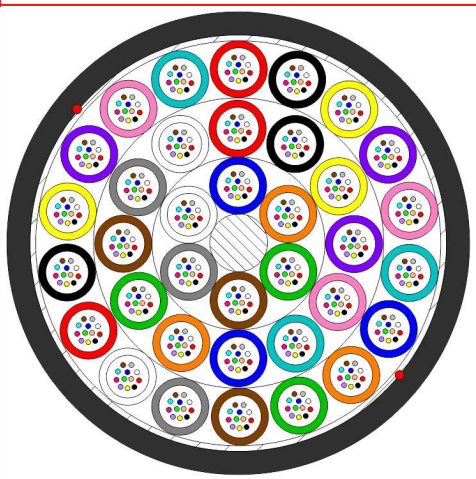
Indoor/Outdoor Riser Adventum® (LTR)

48 x OM4 Adventum Riser Cable

Contact
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Part Number: LTR12B048FB3010/F5

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 – 400GBASE (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
- Alumimum 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

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

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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	OM4 50/125
Type of cable	Loose tube
Jacket Material	Riser
Sheath colour	Black
Dimensional characteristics	
Tube diameter	3 mm
Number of optical fibres	48
Cable diameter (Nominal)	0.396 in
Nominal outer diameter	10.1 mm
Nominal cable weight	60 lb/kft
Approximate weight	90 kg/km
Transmission characteristics	
Optical performance	FB (50/125 GIGAlite 10-FB, OM4)
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	5.9 in
Minimum Bend Radius - Install	15.1 cm
Minimum Bending Radius - LongTerm	4 in
Minimum Bending Radius - LongTerm	10.1 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								

MANUFACTURING RELEASE

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