

Copper LAN Product Inquiry Phone: 717-354-6200 berktek.support@nexans.com

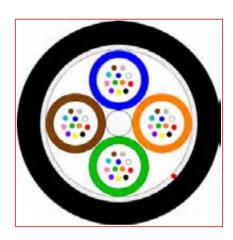
Adventum Riser Rated Indoor/Outdoor Optical Cable

48 x OS2 Adventum Riser Cable Part Number: LTR12B048AB0403

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 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 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 (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, Customerowned Outside Plant Telecommunications Infrastructure Standard.

Berk-Tek's Adventum Loose Tube, Riser Rated 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
- Riser rating enables installation to go directly from outside plant to riser shaft
- · Cable Core and Buffer Tubes use DryGel water blocking system
- Interlocking Armor Available

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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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
- Transition points in network are not needed System grounding requirements are eliminated

Characteristics

Construction observatoriation						
Construction characteristics	211 (2257 14)					
Fiber optic type	SM (G657.A1)					
Type of cable	Loose tube					
Outer sheath	Riser					
Sheath colour	Black					
Dimensional characteristics						
Tube diameter	3 mm					
Number of optical fibres	48					
Nominal outer diameter	0.396 in					
Nominal outer diameter	10.1 mm					
Approximate weight	60 lb/kft					
Approximate weight	90 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	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 5.88 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 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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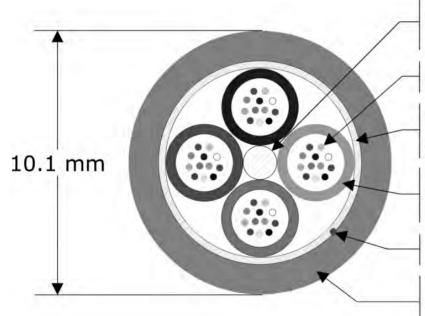
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Standard Sheath Colors

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		
СВ	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 = I	NS = Not Specified									

Cross-section Diagram - LTR12B048



CENTRAL STRENGTH MEMBER

OPTICAL FIBER

WATER ABSORBENT STRENGTH MEMBERS

3 mm WATER-BLOCKED THERMOPLASTIC TUBE

RIPCORD

RISER RATED
THERMOPLASTIC JACKET

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.

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