

Adventum Riser Rated Indoor/Outdoor Optical Cable

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, Customer-owned Outside Plant Telecommunications Infrastructure Standard.

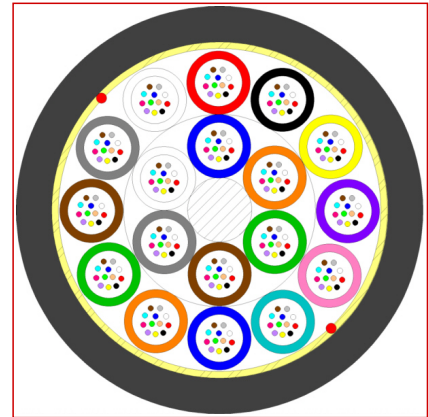
Berk-Tek's Adventum Loose Tube, Riser Rated fiber optic cable is intended for all high speed data applications, including:

- 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
- All dielectric design
- Interlocking Armor Available

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, 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	
Type of cable	Loose tube
Outer sheath	Riser
Usage characteristics	
RoHS conform	Yes
Operating temperature, range	-40 .. 75 °C
Ambient installation temperature, range	-20 .. 60 °C
Storage temperature, range	-60 .. 85 °C

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	Black
CB	OM1	200 MHz-km	200 MHz-km	3.5 dB/km	1.0 dB/km	NS	Black
GB	OM1+	500 MHz-km	350 MHz-km	3.5 dB/km	1.0 dB/km	NS	Black
ZB	OM2	500 MHz-km	500 MHz-km	3.5 dB/km	1.5 dB/km	NS	Black
LB	OM2+	950 MHz-km	700 MHz-km	3.0 dB/km	1.0 dB/km	NS	Black
EB	OM3	2000 MHz-km	1500 MHz-km	3.0 dB/km	1.0 dB/km	NS	Black
FB	OM4	4700 MHz-km	3500 MHz-km	3.0 dB/km	1.0 dB/km	NS	Black
XB	OM4+	4900 MHz-km	3675 MHz-km	3.0 dB/km	1.0 dB/km	NS	Black

NS = Not Specified

Physical Characteristics - All Fiber Types

Nb optical fibres	Minimum Bending Radius - LongTerm [in]	Max. Load. Long Term (lbs) [lb]	Approximate weight [lb/kft]	Minimum Bending Radius - Install [in]	Maximum installation tension [lb]
6	2.6	90.0	29	3.8	300
12	2.6	90.0	29	3.8	300
18	5.1	90.0	52	7.7	300
24	4	90.0	56	5.9	300
24	5.1	90.0	52	7.7	300
48	4	90.0	56	5.9	300

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Nb optical fibres	Minimum Bending Radius - LongTerm [in]	Max. Load. Long Term (lbs) [lb]	Approximate weight [lb/kft]	Minimum Bending Radius - Install [in]	Maximum installation tension [lb]
72	4.7	200.0	75	7	600
144	7	300.0	169	10.4	1000
216	7	300.0	160	10.4	1000

Product List

☎=Make to order, 📦=Make to stock

Part Number	Description
☎ LTR006EB3010/25	Adventum Riser 006 Fiber, 50/125 micron, 2000/500 MHz•km
☎ LTR006FB3010/F5	Adventum Riser 006 Fiber, 50/125 micron, 4700/500 MHz•km
☎ LTR006XB3010/X5	Adventum Riser 006 Fiber, 50/125 micron, 4900/500 MHz•km
☎ LTR006ZB3515/15	Adventum Riser 006 Fiber, 50/125 micron, 500/500 MHz•km FDDI
📦 LTR006LB3010/75	Adventum Riser 006 Fiber, 50/125 micron, 950/500 MHz•km
📦 LTR006CB3510/25	Adventum Riser 006 Fiber, 62.5/125 micron, 200/500 MHz•km
☎ LTR006GB3510/25	Adventum Riser 006 Fiber, 62.5/125 micron, GIGAlite 200/500 MHz•km
☎ LTR006AB0403	Adventum Riser 006 Fiber, Enhanced Single-Mode
☎ LTR012EB3010/25	Adventum Riser 012 Fiber, 50/125 micron, 2000/500 MHz•km
☎ LTR012FB3010/F5	Adventum Riser 012 Fiber, 50/125 micron, 4700/500 MHz•km
☎ LTR012XB3010/X5	Adventum Riser 012 Fiber, 50/125 micron, 4900/500 MHz•km
☎ LTR012ZB3515/15	Adventum Riser 012 Fiber, 50/125 micron, 500/500 MHz•km FDDI
📦 LTR012LB3010/75	Adventum Riser 012 Fiber, 50/125 micron, 950/500 MHz•km
📦 LTR012CB3510/25	Adventum Riser 012 Fiber, 62.5/125 micron, 200/500 MHz•km
☎ LTR012GB3510/25	Adventum Riser 012 Fiber, 62.5/125 micron, GIGAlite 200/500 MHz•km
📦 LTR012AB0403	Adventum Riser 012 Fiber, Enhanced Single-Mode
☎ LTR0X018EB3010/25	Adventum Riser 018 Fiber, 50/125 micron, 2000/500 MHz•km
☎ LTR0X018FB3010/F5	Adventum Riser 018 Fiber, 50/125 micron, 4700/500 MHz•km
☎ LTR0X018XB3010/X5	Adventum Riser 018 Fiber, 50/125 micron, 4900/500 MHz•km
☎ LTR0X018ZB3515/15	Adventum Riser 018 Fiber, 50/125 micron, 500/500 MHz•km FDDI
☎ LTR0X018LB3010/75	Adventum Riser 018 Fiber, 50/125 micron, 950/500 MHz•km
☎ LTR0X018CB3510/25	Adventum Riser 018 Fiber, 62.5/125 micron, 200/500 MHz•km
☎ LTR0X018GB3510/25	Adventum Riser 018 Fiber, 62.5/125 micron, GIGAlite 200/500 MHz•km
☎ LTR0X018AB0403	Adventum Riser 018 Fiber, Enhanced Single-Mode
☎ LTR12B024EB3010/25	Adventum Riser 024 Fiber, 50/125 micron, 2000/500 MHz•km
☎ LTR0X024EB3010/25	Adventum Riser 024 Fiber, 50/125 micron, 2000/500 MHz•km
☎ LTR12B024FB3010/F5	Adventum Riser 024 Fiber, 50/125 micron, 4700/500 MHz•km
☎ LTR0X024FB3010/F5	Adventum Riser 024 Fiber, 50/125 micron, 4700/500 MHz•km
☎ LTR12B024XB3010/X5	Adventum Riser 024 Fiber, 50/125 micron, 4900/500 MHz•km
☎ LTR0X024XB3010/X5	Adventum Riser 024 Fiber, 50/125 micron, 4900/500 MHz•km
☎ LTR12B024ZB3515/15	Adventum Riser 024 Fiber, 50/125 micron, 500/500 MHz•km FDDI
☎ LTR0X024ZB3515/15	Adventum Riser 024 Fiber, 50/125 micron, 500/500 MHz•km FDDI
☎ LTR12B024LB3010/75	Adventum Riser 024 Fiber, 50/125 micron, 950/500 MHz•km
☎ LTR0X024LB3010/75	Adventum Riser 024 Fiber, 50/125 micron, 950/500 MHz•km
☎ LTR12B024CB3510/25	Adventum Riser 024 Fiber, 62.5/125 micron, 200/500 MHz•km

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Part Number	Description
☐ LTR0X024CB3510/25	Adventum Riser 024 Fiber, 62.5/125 micron, 200/500 MHz•km
☎ LTR12B024GB3510/25	Adventum Riser 024 Fiber, 62.5/125 micron, GIGAlite 200/500 MHz•km
☎ LTR0X024GB3510/25	Adventum Riser 024 Fiber, 62.5/125 micron, GIGAlite 200/500 MHz•km
☎ LTR12B024AB0403	Adventum Riser 024 Fiber, Enhanced Single-Mode
☐ LTR0X024AB0403	Adventum Riser 024 Fiber, Enhanced Single-Mode
☎ LTR12B048EB3010/25	Adventum Riser 048 Fiber, 50/125 micron, 2000/500 MHz•km
☎ LTR12B048FB3010/F5	Adventum Riser 048 Fiber, 50/125 micron, 4700/500 MHz•km
☎ LTR12B048XB3010/X5	Adventum Riser 048 Fiber, 50/125 micron, 4900/500 MHz•km
☎ LTR12B048ZB3515/15	Adventum Riser 048 Fiber, 50/125 micron, 500/500 MHz•km FDDI
☎ LTR12B048LB3010/75	Adventum Riser 048 Fiber, 50/125 micron, 950/500 MHz•km
☎ LTR12B048CB3510/25	Adventum Riser 048 Fiber, 62.5/125 micron, 200/500 MHz•km
☎ LTR12B048GB3510/25	Adventum Riser 048 Fiber, 62.5/125 micron, GIGAlite 200/500 MHz•km
☎ LTR12B048AB0403	Adventum Riser 048 Fiber, Enhanced Single-Mode
☎ LTR12B072EB3010/25	Adventum Riser 072 Fiber, 50/125 micron, 2000/500 MHz•km
☎ LTR12B072FB3010/F5	Adventum Riser 072 Fiber, 50/125 micron, 4700/500 MHz•km
☎ LTR12B072XB3010/X5	Adventum Riser 072 Fiber, 50/125 micron, 4900/500 MHz•km
☎ LTR12B072ZB3515/15	Adventum Riser 072 Fiber, 50/125 micron, 500/500 MHz•km FDDI
☎ LTR12B072LB3010/75	Adventum Riser 072 Fiber, 50/125 micron, 950/500 MHz•km
☎ LTR12B072CB3510/25	Adventum Riser 072 Fiber, 62.5/125 micron, 200/500 MHz•km
☎ LTR12B072GB3510/25	Adventum Riser 072 Fiber, 62.5/125 micron, GIGAlite 200/500 MHz•km
☎ LTR12B072AB0403	Adventum Riser 072 Fiber, Enhanced Single-Mode
☎ LTR12B144EB3010/25	Adventum Riser 144 Fiber, 50/125 micron, 2000/500 MHz•km
☎ LTR12B144FB3010/F5	Adventum Riser 144 Fiber, 50/125 micron, 4700/500 MHz•km
☎ LTR12B144XB3010/X5	Adventum Riser 144 Fiber, 50/125 micron, 4900/500 MHz•km
☎ LTR12B144ZB3515/15	Adventum Riser 144 Fiber, 50/125 micron, 500/500 MHz•km FDDI
☎ LTR12B144LB3010/75	Adventum Riser 144 Fiber, 50/125 micron, 950/500 MHz•km
☎ LTR12B144CB3510/25	Adventum Riser 144 Fiber, 62.5/125 micron, 200/500 MHz•km
☎ LTR12B144GB3510/25	Adventum Riser 144 Fiber, 62.5/125 micron, GIGAlite 200/500 MHz•km
☎ LTR12B144AB0403	Adventum Riser 144 Fiber, Enhanced Single-Mode
☎ LTR12B216EB3010/25	Adventum Riser 216 Fiber, 50/125 micron, 2000/500 MHz•km
☎ LTR12B216FB3010/F5	Adventum Riser 216 Fiber, 50/125 micron, 4700/500 MHz•km
☎ LTR12B216XB3010/X5	Adventum Riser 216 Fiber, 50/125 micron, 4900/500 MHz•km
☎ LTR12B216ZB3515/15	Adventum Riser 216 Fiber, 50/125 micron, 500/500 MHz•km FDDI
☎ LTR12B216LB3010/75	Adventum Riser 216 Fiber, 50/125 micron, 950/500 MHz•km
☎ LTR12B216CB3510/25	Adventum Riser 216 Fiber, 62.5/125 micron, 200/500 MHz•km
☎ LTR12B216GB3510/25	Adventum Riser 216 Fiber, 62.5/125 micron, GIGAlite 200/500 MHz•km
☎ LTR12B216AB0403	Adventum Riser 216 Fiber, Enhanced Single-Mode

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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

Contact

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