

**Contact**

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## Adventum Riser Indoor/Outdoor w/Interlocking Armor

Berk-Tek's Adventum Armor-Tek™ products consist of indoor/outdoor rated fiber optic loose tube cables encased with an aluminum or steel spirally wrapped armor in an interlocking configuration. The armored cable is then covered with a riser rated jacket to prevent snags during installation.

### Description

#### Construction

Loose tube cable constructions (up to 432 optical fibers) with aluminum interlock armor and an overall flame rated jacket. Steel interlock is available.

#### Applications

Armor-Tek fiber cables can be used in any of the following installation environments: indoor, indoor/outdoor, in backbones, between closets and in fiber to the desk. Armor-Tek is a viable and cost effective solution for applications where a pathway is beyond its fill ratio, for areas where extra physical security is a concern, in fast track installations, between buildings, direct buried, or in trays.

Available Harsh Environment (HE), cables offer superior resistance to chemicals and fuels. Suitable for Petro-Chemical, Industrial, and airport installations.

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

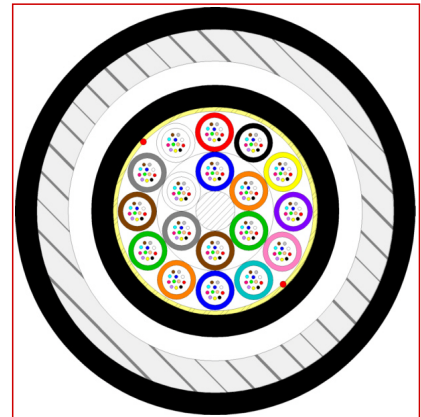
Berk-Tek's Adventum Loose Tube fiber optic cables (U.S. Patent No. 6,178,278) are suitable for all passive and active optical network designs requiring high speed data applications, including (but not limited to):

- 10BASE-FL
- 100BASE-SX/100BASE-FX
- ATM 155/ATM622
- 1000BASE-SX/1000BASE-LX
- Fibre Channel 1.062/2.125
- 10GBASE-SR/SW
- 10GBASE-LX4

#### Features

- Jacketed armor that remains flexible due to the spiral wrap armoring process
- The armored design allows for an easy one-pull installation into any environment
- Aluminum or steel interlock armor is available
- Aluminum interlock offers 10 to 13 times the impact resistance over all-dielectric optical cable
- Compact outside diameters when compared to plenum innerduct or conduit
- Interlocking armor available without an overjacket

#### 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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- Eliminate the need for conduit or plenum innerduct by installing interlock armor cable, providing a significant cost savings in both materials and labor
- Extremely durable cables for hazardous environments or difficult cable installations
- Installation time can be reduced by as much as 60% versus installing conduit or innerduct
- Armor-Tek optical fibers cables accommodate last minute relocations or pathway changes whereas innerduct or conduit is not a flexible alternative
- Armor-Tek cables are not governed by fill ratios because they are UL listed as cable assemblies, allowing higher concentrations of cables in an area than allowed with conduit
- Can be installed in campus environments when used with indoor/outdoor rated cables such as Adventum
- Provides additional protection and security for your fiber backbone due to the ruggedness of the armoring materials

### Characteristics

Construction characteristics	
Type of cable	Loose tube
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]	Minimum Bending Radius - Install [in]	Approximate weight [lb/kft]	Maximum installation tension [lb]
6	6.4	90.0	9.5	138	300

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Nb optical fibres	Minimum Bending Radius - LongTerm [in]	Max. Load. Long Term (lbs) [lb]	Minimum Bending Radius - Install [in]	Approximate weight [lb/kft]	Maximum installation tension [lb]
12	6.4	90.0	9.5	138	300
18	8.7	90.0	13	202	300
24	7.4	200.0	11.2	182	600
24	8.7	90.0	13	202	300
48	7.4	200.0	11.2	182	600
72	8.7	200.0	13	232	600
144	10.2	300.0	15.3	360	1000
216	10.2	300.0	15.3	350	1000
432	12.7	300.0	19	533	1000

**Product List**

☎ = Make to order, 📦 = Make to stock

Part Number	Description
☎ LTRK012CB3510/25	12 x OM1 Adventum Riser with Interlock Armor
☎ LTRK012GB3510/25	12 x OM1+ Adventum Riser with Interlock Armor
☎ LTRK012ZB3515/55	12 x OM2 Adventum Riser with Interlock Armor
☎ LTRK012LB3010/75	12 x OM2+ Adventum Riser with Interlock Armor
☎ LTRK012EB3010/25	12 x OM3 Adventum Riser with Interlock Armor
☎ LTRK012FB3010/F5	12 x OM4 Adventum Riser with Interlock Armor
☎ LTRK012XB3010/X5	12 x OM4+ Adventum Riser with Interlock Armor
☎ LTRK012AB0403	12 x OS2 Adventum Riser with Interlock Armor
☎ LTRK12B144CB3510/25	144 x OM1 Adventum Riser with Interlock Armor
☎ LTRK12B144GB3510/25	144 x OM1+ Adventum Riser with Interlock Armor
☎ LTRK12B144ZB3515/55	144 x OM2 Adventum Riser with Interlock Armor
☎ LTRK12B144LB3010/75	144 x OM2+ Adventum Riser with Interlock Armor
☎ LTRK12B144EB3010/25	144 x OM3 Adventum Riser with Interlock Armor
☎ LTRK12B144FB3010/F5	144 x OM4 Adventum Riser with Interlock Armor
☎ LTRK12B144XB3010/X5	144 x OM4+ Adventum Riser with Interlock Armor
☎ LTRK12B144AB0403	144 x OS2 Adventum Riser with Interlock Armor
☎ LTRK0X018CB3510/25	18 x OM1 Adventum Riser with Interlock Armor
☎ LTRK0X018GB3510/25	18 x OM1+ Adventum Riser with Interlock Armor
☎ LTRK0X018ZB3515/55	18 x OM2 Adventum Riser with Interlock Armor
☎ LTRK0X018LB3010/75	18 x OM2+ Adventum Riser with Interlock Armor
☎ LTRK0X018EB3010/25	18 x OM3 Adventum Riser with Interlock Armor
☎ LTRK0X018FB3010/F5	18 x OM4 Adventum Riser with Interlock Armor
☎ LTRK0X018XB3010/X5	18 x OM4+ Adventum Riser with Interlock Armor
☎ LTRK0X018AB0403	18 x OS2 Adventum Riser with Interlock Armor
☎ LTRK12B216CB3510/25	216 x OM1 Adventum Riser with Interlock Armor
☎ LTRK12B216GB3510/25	216 x OM1+ Adventum Riser with Interlock Armor
☎ LTRK12B216ZB3515/55	216 x OM2 Adventum Riser with Interlock Armor
☎ LTRK12B216LB3010/75	216 x OM2+ Adventum Riser with Interlock Armor
☎ LTRK12B216EB3010/25	216 x OM3 Adventum Riser with Interlock Armor

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## Adventum Riser Indoor/Outdoor w/Interlocking Armor

Part Number	Description
☎ LTRK12B216FB3010/F5	216 x OM4 Adventum Riser with Interlock Armor
☎ LTRK12B216XB3010/X5	216 x OM4+ Adventum Riser with Interlock Armor
☎ LTRK12B216AB0403	216 x OS2 Adventum Riser with Interlock Armor
☎ LTRK0X024CB3510/25	24 x OM1 Adventum Riser with Interlock Armor
☎ LTRK12B024CB3510/25	24 x OM1 Adventum Riser with Interlock Armor
☎ LTRK0X024GB3510/25	24 x OM1+ Adventum Riser with Interlock Armor
☎ LTRK12B024GB3510/25	24 x OM1+ Adventum Riser with Interlock Armor
☎ LTRK0X024ZB3515/55	24 x OM2 Adventum Riser with Interlock Armor
☎ LTRK12B024ZB3515/55	24 x OM2 Adventum Riser with Interlock Armor
☎ LTRK0X024LB3010/75	24 x OM2+ Adventum Riser with Interlock Armor
☎ LTRK12B024LB3010/75	24 x OM2+ Adventum Riser with Interlock Armor
☎ LTRK0X024EB3010/25	24 x OM3 Adventum Riser with Interlock Armor
☎ LTRK12B024EB3010/25	24 x OM3 Adventum Riser with Interlock Armor
☎ LTRK0X024FB3010/F5	24 x OM4 Adventum Riser with Interlock Armor
☎ LTRK12B024FB3010/F5	24 x OM4 Adventum Riser with Interlock Armor
☎ LTRK0X024XB3010/X5	24 x OM4+ Adventum Riser with Interlock Armor
☎ LTRK12B024XB3010/X5	24 x OM4+ Adventum Riser with Interlock Armor
☎ LTRK0X024AB0403	24 x OS2 Adventum Riser with Interlock Armor
☎ LTRK12B024AB0403	24 x OS2 Adventum Riser with Interlock Armor
☎ LTRK12B432CB3510/25	432 x OM1 Adventum Riser with Interlock Armor
☎ LTRK12B432GB3510/25	432 x OM1+ Adventum Riser with Interlock Armor
☎ LTRK12B432ZB3515/55	432 x OM2 Adventum Riser with Interlock Armor
☎ LTRK12B432LB3010/75	432 x OM2+ Adventum Riser with Interlock Armor
☎ LTRK12B432EB3010/25	432 x OM3 Adventum Riser with Interlock Armor
☎ LTRK12B432FB3010/F5	432 x OM4 Adventum Riser with Interlock Armor
☎ LTRK12B432XB3010/X5	432 x OM4+ Adventum Riser with Interlock Armor
☎ LTRK12B432AB0403	432 x OS2 Adventum Riser with Interlock Armor
☎ LTRK12B048CB3510/25	48 x OM1 Adventum Riser with Interlock Armor
☎ LTRK12B048GB3510/25	48 x OM1+ Adventum Riser with Interlock Armor
☎ LTRK12B048ZB3515/55	48 x OM2 Adventum Riser with Interlock Armor
☎ LTRK12B048LB3010/75	48 x OM2+ Adventum Riser with Interlock Armor
☎ LTRK12B048EB3010/25	48 x OM3 Adventum Riser with Interlock Armor
☎ LTRK12B048FB3010/F5	48 x OM4 Adventum Riser with Interlock Armor
☎ LTRK12B048XB3010/X5	48 x OM4+ Adventum Riser with Interlock Armor
☎ LTRK12B048AB0403	48 x OS2 Adventum Riser with Interlock Armor
☎ LTRK006CB3510/25	6 x OM1 Adventum Riser with Interlock Armor
☎ LTRK006GB3510/25	6 x OM1+ Adventum Riser with Interlock Armor
☎ LTRK006ZB3515/55	6 x OM2 Adventum Riser with Interlock Armor
☎ LTRK006LB3010/75	6 x OM2+ Adventum Riser with Interlock Armor
☎ LTRK006EB3010/25	6 x OM3 Adventum Riser with Interlock Armor
☎ LTRK006FB3010/F5	6 x OM4 Adventum Riser with Interlock Armor
☎ LTRK006XB3010/X5	6 x OM4+ Adventum Riser with Interlock Armor
☎ LTRK006AB0403	6 x OS2 Adventum Riser with Interlock Armor

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## Adventum Riser Indoor/Outdoor w/Interlocking Armor

Part Number	Description
☎ LTRK12B072CB3510/25	72 x OM1 Adventum Riser with Interlock Armor
☎ LTRK12B072GB3510/25	72 x OM1+ Adventum Riser with Interlock Armor
☎ LTRK12B072ZB3515/55	72 x OM2 Adventum Riser with Interlock Armor
☎ LTRK12B072LB3010/75	72 x OM2+ Adventum Riser with Interlock Armor
☎ LTRK12B072EB3010/25	72 x OM3 Adventum Riser with Interlock Armor
☎ LTRK12B072FB3010/F5	72 x OM4 Adventum Riser with Interlock Armor
☎ LTRK12B072XB3010/X5	72 x OM4+ Adventum Riser with Interlock Armor
☎ LTRK12B072AB0403	72 x OS2 Adventum Riser with Interlock Armor
☎ LTRK012-006EB3010/25-006AB0403	Hybrid 6xOM3 + 6OS2 Adventum Riser with Interlock Armor

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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 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.