

Contact

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

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 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.

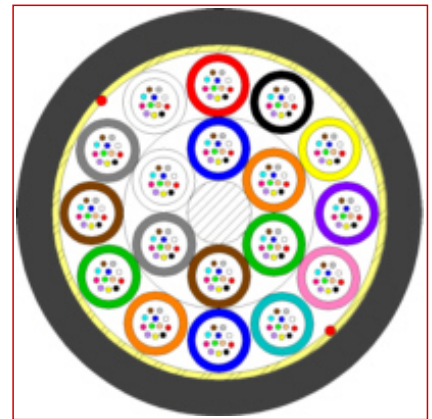
Berk-Tek's Adventum Loose Tube, Riser Rated fiber optic cable is intended for all high speed data applications, including:

- 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
- UV resistant outer jacket protects the cable in outside plant installations
- Interlocking Armor Available

Benefits



Standards

International EN 50173; ISO/IEC 11801

National ANSI/ICEA S-104-696; ANSI/ICEA S-83-596; ANSI/TIA-568-C.3; Telcordia GR-409

Adventum Riser Rated Indoor/Outdoor Optical Cable

- 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
Jacket Material	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

Physical Characteristics - All Fiber Types

Nb optical fibres	Minimum Bending Radius - Install [in]	Maximum installation tension [lb]	Nominal cable weight [lb/kft]	Minimum Bending Radius - LongTerm [in]	Max. Load. Long Term (lbs) [lb]
6	3.8	300	29	2.6	90.0
8	3.8	300	30	2.6	90.0
12	3.8	300	30	2.6	90.0
12	5.9	300	58	4	90.0
18	7.7	300	59	5.1	90.0
24	5.9	300	59	4	90.0
24	7.7	300	59	5.1	90.0
36	5.9	300	60	4	90.0
48	5.9	300	60	4	90.0
72	7	600	81	4.7	200.0
96	8.1	600	106	5.4	200.0
144	10.4	1000	178	7	300.0
216	10.7	1000	170	7.2	300.0
432	14.3	1000	301	9.5	300.0

Product List

☎=Make to order, 📦=In stock

Part Number	Description
📦 LTR012CB3510/25	12 x OM1 Adventum Riser Cable
☎ LTR12B012CB3510/25	12 x OM1 Adventum Riser Cable

☎ = Make to order, 📦 = In stock

Adventum Riser Rated Indoor/Outdoor Optical Cable

Part Number	Description
☎ LTR012GB3510/25	12 x OM1+ Adventum Riser Cable
☎ LTR12B012GB3510/25	12 x OM1+ Adventum Riser Cable
☎ LTR012ZB3515/55	12 x OM2 Adventum Riser Cable
☎ LTR12B012ZB3515/55	12 x OM2 Adventum Riser Cable
☎ LTR012LB3010/75	12 x OM2+ Adventum Riser Cable
☎ LTR12B012LB3010/75	12 x OM2+ Adventum Riser Cable
☎ LTR012EB3010/25	12 x OM3 Adventum Riser Cable
☎ LTR12B012EB3010/25	12 x OM3 Adventum Riser Cable
☎ LTR012FB3010/F5	12 x OM4 Adventum Riser Cable
☎ LTR12B012FB3010/F5	12 x OM4 Adventum Riser Cable
☎ LTR012XB3010/X5	12 x OM4+ Adventum Riser Cable
☎ LTR12B012XB3010/X5	12 x OM4+ Adventum Riser Cable
☎ LTR012AB0403	12 x OS2 Adventum Riser Cable
☎ LTR12B012AB0403	12 x OS2 Adventum Riser Cable
☎ LTR12B144CB3510/25	144 x OM1 Adventum Riser Cable
☎ LTR12B144GB3510/25	144 x OM1+ Adventum Riser Cable
☎ LTR12B144ZB3515/55	144 x OM2 Adventum Riser Cable
☎ LTR12B144LB3010/75	144 x OM2+ Adventum Riser Cable
☎ LTR12B144EB3010/25	144 x OM3 Adventum Riser Cable
☎ LTR12B144FB3010/F5	144 x OM4 Adventum Riser Cable
☎ LTR12B144XB3010/X5	144 x OM4+ Adventum Riser Cable
☎ LTR12B144AB0403	144 x OS2 Adventum Riser Cable
☎ LTR0X018CB3510/25	18 x OM1 Adventum Riser Cable
☎ LTR0X018GB3510/25	18 x OM1+ Adventum Riser Cable
☎ LTR0X018ZB3515/55	18 x OM2 Adventum Riser Cable
☎ LTR0X018LB3010/75	18 x OM2+ Adventum Riser Cable
☎ LTR0X018EB3010/25	18 x OM3 Adventum Riser Cable
☎ LTR0X018FB3010/F5	18 x OM4 Adventum Riser Cable
☎ LTR0X018XB3010/X5	18 x OM4+ Adventum Riser Cable
☎ LTR0X018AB0403	18 x OS2 Adventum Riser Cable
☎ LTR12B216CB3510/25	216 x OM1 Adventum Riser Cable
☎ LTR12B216GB3510/25	216 x OM1+ Adventum Riser Cable
☎ LTR12B216ZB3515/55	216 x OM2 Adventum Riser Cable
☎ LTR12B216LB3010/75	216 x OM2+ Adventum Riser Cable
☎ LTR12B216EB3010/25	216 x OM3 Adventum Riser Cable
☎ LTR12B216FB3010/F5	216 x OM4 Adventum Riser Cable
☎ LTR12B216XB3010/X5	216 x OM4+ Adventum Riser Cable
☎ LTR12B216AB0403	216 x OS2 Adventum Riser Cable
☎ LTR12B024CB3510/25	24 x OM1 Adventum Riser Cable
☎ LTR0X024CB3510/25	24 x OM1 Adventum Riser Cable
☎ LTR12B024GB3510/25	24 x OM1+ Adventum Riser Cable
☎ LTR0X024GB3510/25	24 x OM1+ Adventum Riser Cable
☎ LTR12B024ZB3515/55	24 x OM2 Adventum Riser Cable

☎ = Make to order, ☎ = In stock

Adventum Riser Rated Indoor/Outdoor Optical Cable

Part Number	Description
☎ LTR0X024ZB3515/55	24 x OM2 Adventum Riser Cable
☎ LTR12B024LB3010/75	24 x OM2+ Adventum Riser Cable
☎ LTR0X024LB3010/75	24 x OM2+ Adventum Riser Cable
☎ LTR12B024EB3010/25	24 x OM3 Adventum Riser Cable
☎ LTR0X024EB3010/25	24 x OM3 Adventum Riser Cable
☎ LTR12B024EB3010/25-C4(AQU)	24 x OM3 Adventum Riser Cable
☎ LTR12B024FB3010/F5	24 x OM4 Adventum Riser Cable
☎ LTR0X024FB3010/F5	24 x OM4 Adventum Riser Cable
☎ LTR12B024XB3010/X5	24 x OM4+ Adventum Riser Cable
☎ LTR0X024XB3010/X5	24 x OM4+ Adventum Riser Cable
☎ LTR12B024AB0403	24 x OS2 Adventum Riser Cable
📦 LTR0X024AB0403	24 x OS2 Adventum Riser Cable
☎ LTR12B036CB3510/25	36 x OM1 Adventum Riser Cable
☎ LTR12B036GB3510/25	36 x OM1+ Adventum Riser Cable
☎ LTR12B036ZB3515/55	36 x OM2 Adventum Riser Cable
☎ LTR12B036LB3010/75	36 x OM2+ Adventum Riser Cable
☎ LTR12B036EB3010/25	36 x OM3 Adventum Riser Cable
☎ LTR12B036EB3010/25-F1(COR)	36 x OM3 Adventum Riser Cable
☎ LTR12B036FB3010/F5	36 x OM4 Adventum Riser Cable
☎ LTR12B036XB3010/X5	36 x OM4+ Adventum Riser Cable
☎ LTR12B036AB0403	36 x OS2 Adventum Riser Cable
☎ LTR12B036AB0403-F1(COR)	36 x OS2 Adventum Riser Cable
☎ LTR12B432CB3510/25	432 x OM1 Adventum Riser Cable
☎ LTR12B432GB3510/25	432 x OM1+ Adventum Riser Cable
☎ LTR12B432ZB3515/55	432 x OM2 Adventum Riser Cable
☎ LTR12B432LB3010/75	432 x OM2+ Adventum Riser Cable
☎ LTR12B432EB3010/25	432 x OM3 Adventum Riser Cable
☎ LTR12B432FB3010/F5	432 x OM4 Adventum Riser Cable
☎ LTR12B432XB3010/X5	432 x OM4+ Adventum Riser Cable
☎ LTR12B432AB0403	432 x OS2 Adventum Riser Cable
☎ LTR12B048CB3510/25	48 x OM1 Adventum Riser Cable
☎ LTR12B048GB3510/25	48 x OM1+ Adventum Riser Cable
☎ LTR12B048ZB3515/55	48 x OM2 Adventum Riser Cable
☎ LTR12B048LB3010/75	48 x OM2+ Adventum Riser Cable
☎ LTR12B048EB3010/25	48 x OM3 Adventum Riser Cable
☎ LTR12B048FB3010/F5	48 x OM4 Adventum Riser Cable
☎ LTR12B048XB3010/X5	48 x OM4+ Adventum Riser Cable
☎ LTR12B048AB0403	48 x OS2 Adventum Riser Cable
📦 LTR006CB3510/25	6 x OM1 Adventum Riser Cable
☎ LTR006GB3510/25	6 x OM1+ Adventum Riser Cable
☎ LTR006ZB3515/55	6 x OM2 Adventum Riser Cable
📦 LTR006LB3010/75	6 x OM2+ Adventum Riser Cable
☎ LTR006EB3010/25	6 x OM3 Adventum Riser Cable

☎ = Make to order, 📦 = In stock

Adventum Riser Rated Indoor/Outdoor Optical Cable

Part Number	Description
☎ LTR006FB3010/F5	6 x OM4 Adventum Riser Cable
☎ LTR006XB3010/X5	6 x OM4+ Adventum Riser Cable
☎ LTR006AB0403	6 x OS2 Adventum Riser Cable
☎ LTR12B072CB3510/25	72 x OM1 Adventum Riser Cable
☎ LTR12B072GB3510/25	72 x OM1+ Adventum Riser Cable
☎ LTR12B072ZB3515/55	72 x OM2 Adventum Riser Cable
☎ LTR12B072LB3010/75	72 x OM2+ Adventum Riser Cable
☎ LTR12B072EB3010/25	72 x OM3 Adventum Riser Cable
☎ LTR12B072FB3010/F5	72 x OM4 Adventum Riser Cable
☎ LTR12B072XB3010/X5	72 x OM4+ Adventum Riser Cable
☎ LTR12B072AB0403	72 x OS2 Adventum Riser Cable
☎ LTR008CB3510/25	8 x OM1 Adventum Riser Cable
☎ LTR008GB3510/25	8 x OM1+ Adventum Riser Cable
☎ LTR008ZB3515/55	8 x OM2 Adventum Riser Cable
☎ LTR008LB3010/75	8 x OM2+ Adventum Riser Cable
☎ LTR008EB3010/25	8 x OM3 Adventum Riser Cable
☎ LTR008FB3010/F5	8 x OM4 Adventum Riser Cable
☎ LTR008XB3010/X5	8 x OM4+ Adventum Riser Cable
☎ LTR008AB0403	8 x OS2 Adventum Riser Cable
☎ LTR12B096CB3510/25	96 x OM1 Adventum Riser Cable
☎ LTR12B096GB3510/25	96 x OM1+ Adventum Riser Cable
☎ LTR12B096ZB3515/55	96 x OM2 Adventum Riser Cable
☎ LTR12B096LB3010/75	96 x OM2+ Adventum Riser Cable
☎ LTR12B096EB3010/25	96 x OM3 Adventum Riser Cable
☎ LTR12B096FB3010/F5	96 x OM4 Adventum Riser Cable
☎ LTR12B096XB3010/X5	96 x OM4+ Adventum Riser Cable
☎ LTR12B096AB0403	96 x OS2 Adventum Riser Cable
☎ LTR12B036-012CB3510/25-024AB0403	Hybrid 12 x OM1 & 24 x OS2 Adventum Riser Cable
☎ LTR12B024-012CB3510/25-012AB0403	Hybrid 12 x OM1 & 12 x OS2 Adventum Riser Cable
☎ LTR0X024-012EB3010/25-012AB0403	Hybrid 12 x OM3 & 12 x OS2 Adventum Riser Cable
☎ LTR12B048-012EB3010/25-036AB0403	Hybrid 12 x OM3 & 36 x OS2 Adventum Riser Cable
☎ LTR12B024-012FB3010/F5-012AB0403	Hybrid 12 x OM4 & 12 x OS2 Adventum Riser Cable
☎ LTR12B018-012FB3010/F5-006AB0403	Hybrid 12 x OM4 & 6 x OS2 Adventum Riser Cable
☎ LTR12B024-012XB3010/X5-012AB0403	Hybrid 12 x OM4+ & 12 x OS2 Adventum Riser Cable
☎ LTR12B048-024EB3010/25-024AB0403	Hybrid 24 x OM3 & 24 x OS2 Adventum Riser Cable
☎ LTR12B048-024FB3010/F5-024AB0403	Hybrid 24 x OM4 & 24 x OS2 Adventum Riser Cable
☎ LTR12B036-024XB3010/X5-012AB0403	Hybrid 24 x OM4+ & 12 x OS2 Adventum Riser Cable
☎ LTR12B048-024XB3010/X5-024AB0403	Hybrid 24 x OM4+ & 24 x OS2 Adventum Riser Cable
☎ LTR12B072-036EB3010/25-036AB0403	Hybrid 36 x OM3 & 36 x OS2 Adventum Riser Cable
☎ LTR12B096-048FB3010/F5-048AB0403	Hybrid 48 x OM4 & 48 x OS2 Adventum Riser Cable
☎ LTR012-006CB3510/25-006AB0403	Hybrid 6 x OM1 & 6 x OS2 Adventum Riser Cable
☎ LTR012-006LB3010/75-006AB0403	Hybrid 6 x OM2+ & 6 x OS2 Adventum Riser Cable
☎ LTR012-006EB3010/25-006AB0403	Hybrid 6 x OM3 & 6 x OS2 Adventum Riser Cable

☎ = Make to order, 📦 = In stock

Adventum Riser Rated Indoor/Outdoor Optical Cable

Part Number	Description
LTR012-006FB3010/F5-006AB0403	Hybrid 6 x OM4 & 6 x OS2 Adventum Riser Cable
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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
CB	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 = Not Specified								

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 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.

SUBMITTAL IDENTIFICATION SHEET

To be completed by Contractor/CM

WEBSTER UNIVERSITY ISB

PROJECT NAME

8274 BIG BEND BLVD. WEBSTER GROVES, MO 631

ADDRESS

NUMBER

WEBSTER UNIVERSITY

OWNER

CANNON

ARCHITECT / ENGINEER

DEVIN GATES

SUBMITTED BY

261200-001

CONTRACTOR / CM SUBMITTAL NO.

CANNON DESIGN SUBMITTAL NO.

T0100

DRAWING / DETAIL REFERENCE

261200

SPECIFICATION SECTION / PARAGRAPH

BERK-TEK

MANUFACTURER / SUPPLIER

OPTICAL CABLE

ITEM / PRODUCT ID

3/19/16

REQUIRED DATE

HIGH

PRIORITY

☐

CRITICAL

ITEM BEING SUBMITTED (check only one)

- ☐ Shop Drawings
☐ Samples (____ copies)
☐ LEED Submittal
☐ Other _____
- ☐ Certification / Qualifications
☐ Record Documents
☒ Product Data
- ☐ Coordination Drawing
☐ Calculations
☐ Schedules
☐ O&M Manuals

ITEM BEING SUBMITTED FOR (check only one)

- ☒ Action
☐ Information Only
☐ Record

REMARKS OR DEVIATIONS

CONTRACTOR / CM CERTIFICATION
(SUBMITTALS NOT CERTIFIED WILL BE RETURNED WITHOUT REVIEW)


 PARIC CORPORATION
 SUBMITTAL STAMP
 THIS SHOP DRAWING HAS BEEN REVIEWED BY PARIC CORPORATION
 Subcontractor remains responsible for dimensions, quantities, coordination with other trades and compliance with contract documents.
 By: Devin D. Gates
 Date: Mar 14, 2016
 Submittal #: CannonDesign Submittal ID Sheet.pdf

Devin D Gates

REVIEWED BY

3/14/16

DATE

To be completed by Reviewer

26 1200-001

CANNON DESIGN SUBMITTAL NUMBER

3/14/16

RECEIVED DATE

- ☒ A. No Exceptions Taken
 No further review of submittal is required.
- ☐ B. Make Corrections Noted
 Incorporate corrections in work; resubmission is not required.
- ☐ C. Revise and Resubmit
 Revise as noted, and resubmit for review.
- ☐ D. Rejected
 Submittal is not in compliance with Contract Documents; provide new submittal.
- ☐ E. For Record / Information Only
 Submittal was reviewed for Record / Information purposes only.
- ☐ F. Not Required for Review
 Submittal is not required by Contract Documents and has not been reviewed.

Review is for conformance with the design concept of this project and for general compliance with contract documents. Contractor is responsible for quantities, dimensions and compliance with contract documents and for information that pertains to fabrication processes, construction techniques and coordination of this work with all trades which will be affected thereby. This review is null and void if submittal deviates from contract documents and does not indicate or note deviations.

A/E COMMENTS

☐ See attached sheet(s) for additional comments

Submittal is approved only for hybrid (MM/SM) fiber optic cable identified on this document. Singlemode cable shall be submitted under a separate submittal.

REVIEWED BY

DATE



77 Westport Plaza
Suite 250
St. Louis, MO 63146

TRANSMITTAL

No. 15051-0006

Paric Corporation

PROJECT: Webster University Interdisciplinary Science Building

DATE: 03/10/2016

TO: Cannon Design
1100 Clark Ave
St Louis MO 63102

RE: Indoor outdoor optical cable

ATTN: Kelvin Patel

WE ARE SENDING:	SUBMITTED FOR:	ACTION TAKEN:
☐ Shop Drawings	☒ Approval	☐ Approved as Submitted
☐ Letter	☐ Your Use	☐ Approved as Noted
☐ Prints	☐ As Requested	☐ Returned After Loan
☐ Change Order	☐ Review and Comment	☐ Resubmit
☐ Plans		☐ Submit
☐ Samples	SENT VIA:	☐ Returned
☐ Specifications	☐ Attached	☐ Returned for Corrections
☒ Other: product data	☐ Separate Cover Via:	☒ Due Date: 03/17/2016

Item	Package	Code	Rev.	Copies	Date	Description	Status
Submittal		261200-001	1		03/10/2016	Indoor outdoor optical cable	Submitted

NOTES:



CC:

**PARIC CORPORATION
SUBMITTAL STAMP**

**THIS SHOP DRAWING HAS BEEN REVIEWED BY PARIC
CORPORATION**

Subcontractor remains responsible for dimensions, quantities, coordination
with other trades and compliance with contract documents.

By:

Devin D. Gates

Date:

Mar 10, 2016

Submittal #:

261200-001

Signed: _____
Devin Gates