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

Adventum Tight Buffer Plenum Rated Drop Cable

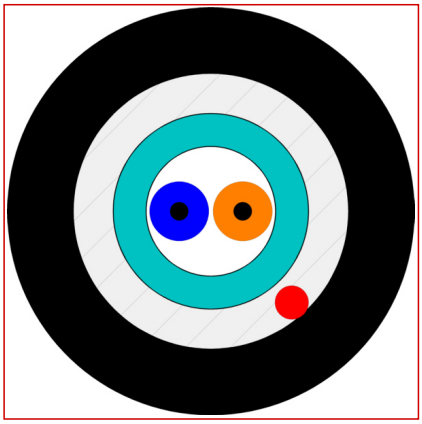
2 x OM2+ Adventum Tight Buffer Plenum

Part Number: ATP002LB3010/75

Berk-Tek's Adventum Tight-Buffer cable is designed specifically for FTTH, MDU, MTU deployments. This design incorporates 1 or 2 tight buffered optical fibers within a dry water blocked buffer tube. Suitable for operation across wide temperature variations typically addressed by outside plant cables. No Buffer Tube Fan Out Kits are required. Direct Termination is enabled.

Description

This plenum flame rated drop cable design accommodates 1 or 2 tight buffered optical fibers. Berk-Tek's loose tube tight buffered drop cables are available in Multimode, Single-mode, and GIGAlite fibers.



Construction

Each DryGel water blocked buffer tube contains 1 or 2, 900 µm tight-buffered fibers.

- 3 mm Buffer Tube Diameter
- Thermoplastic Jacket Material

Outdoor Considerations

Loose Tube cables are recommended if interbuilding conduit systems are likely to fill with water.

Adventum Tight Buffer cables are not suitable for aerial-lashed installations.
Plenum flame rating allows for building riser shaft penetration or alongside plenums without having to change cabling.

Applications

Berk-Tek's Adventum Tight Buffer Drop cables are suitable for all passive and active optical network designs requiring high speed voice, video, and data applications, including (but not limited to):

- 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

Features

- Plenum ratings enable installations to go directly from outside plant through riser shafts and alongside plenums with no transition point requirement.
- High tensile strength, crush resistant and small diameter design enable long pulls in non-dedicated conduits.
- Tight Buffered fibers are ready for direct termination, no fan out kits are needed.
- All dielectric design with Interlocking Armor available.
- Fully water-blocked core using a dry water blocking system.
- Available with new bend-insensitive single-mode fibers
- UV resistant outer jacket protects the cable in outside plant installations

Benefits

Standards

International EN 50173; ISO/IEC 11801

National ANSI/ICEA S-104-696; ANSI/ICEA S-83-596; ANSI/ICEA S-87-640; ANSI/TIA-568-C.3; Telcordia GR-409

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- Compact, water blocked, plenum rated, flexible loose tube design with tight buffered fibers
- Can incorporate an optional tracer wire.
- Ruggedly designed for outside plant installation (non-aerial lashed)
- High Tensile Strength provides for greater pulling distances
- Long-term reliability improved over traditional tight buffer premises cables
- Low cable plant maintenance, ease of installation
- Reduced cable diameter, flexible, with easy access to buffer tube and fibers

PATENT ISSUED

Berk-Tek, a Nexans Company was recently issued a patent on this unique cable design. (U.S. Patent No. 7,664,354)

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Characteristics

Construction characteristics	
Fiber optic type	OM2 50/125 Extended Distance
Type of cable	Loose tube
Outer sheath	Plenum
Sheath colour	Black
Dimensional characteristics	
Tube diameter	3 mm
Number of optical fibres	2
Nominal outer diameter	0.235 in
Nominal outer diameter	6.0 mm
Approximate weight	26 lb/kft
Approximate weight	38 kg/km
Transmission characteristics	
Optical performance	LB (50/125 GIGAlite, OM2+ Extended Distance)
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 5.88 N-m
Crush resistance per TIA/EIA FOTP-41	220 N/cm
Cable flexibility per TIA/EIA FOTP-104	100 cycles
Usage characteristics	
Minimum Bending Radius - Install	3.5 in
Minimum Bend Radius - Install	9 cm
Minimum Bending Radius - LongTerm	2.4 in
Minimum Bending Radius - LongTerm	6 cm
Operating temperature, range	-40 .. 75 °C
Ambient installation temperature, range	-20 .. 60 °C
Storage temperature, range	-40 .. 85 °C
Field of application	Indoor, Outdoor

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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	0.7 dB/km	0.7 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

Additional Standards Compliance

NFPA 130

Image of ATP Cable

2-Fiber ATP Construction

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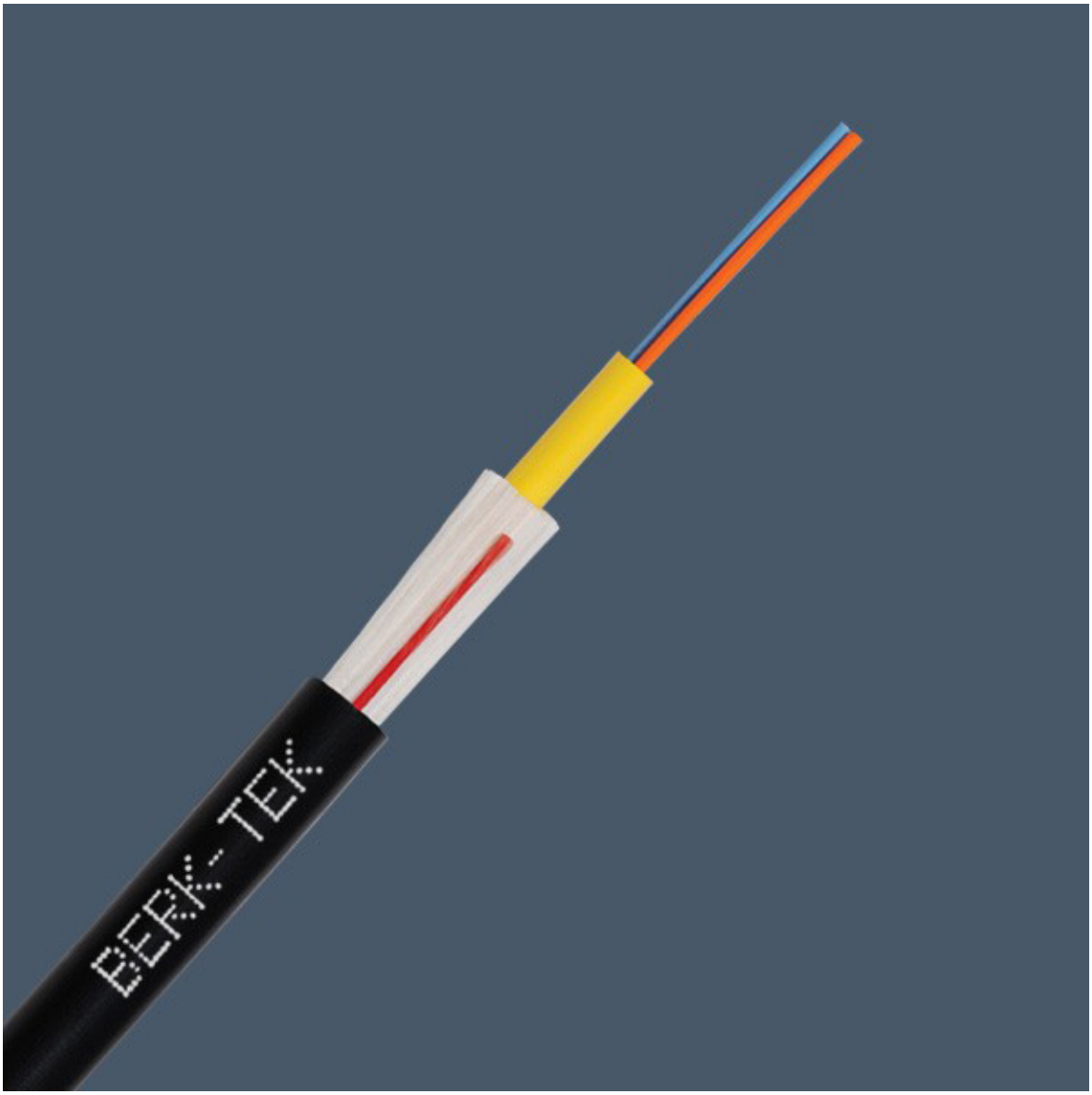

Manufacturing Release

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.