

## Adventum Tight Buffer Plenum Drop Cable

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 lie above the frost line and 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

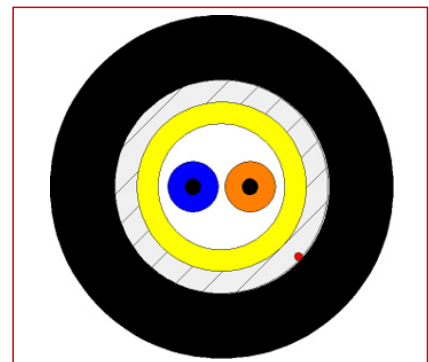
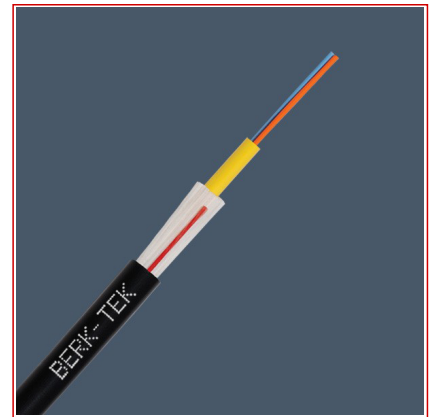
Berk-Tek's Adventum Tight Buffer Drop cables are suitable for all passive and active optical network designs requiring high speed voice, video, and data applications, including (but not limited to):

- 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

### Benefits



### Standards

**International** EN 50173; ISO/IEC 11801

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



RoHS conform  
Yes

## Adventum Tight Buffer Plenum Drop Cable

- 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

**Temperature Rating**

Operation -40°C to +75°C  
Storage -40°C to +85°C  
Installation -20°C to +65°C

**PATENT ISSUED**

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

**Characteristics**

Construction characteristics	
Type of cable	Loose tube
Outer sheath	Plenum
Usage characteristics	
RoHS conform	Yes

**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	OS1	NS	NS	NS	0.7 dB/km	0.7 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



**RoHS**  
RoHS conform  
Yes

## Adventum Tight Buffer Plenum Drop Cable

### Optical Performance Characteristics - All Fiber Counts

Optical performance	Attenuation, max. 1550 nm (cabled) [dB/km]	Attenuation, max. 850 nm (cabled) [dB/km]	Attenuation, max. 1310 nm (cabled) [dB/km]	Attenuation, max. 1300 nm (cabled) [dB/km]
AB (Single-mode, OS1)	0.7	-	0.7	-
CB (62.5/125 Standard, OM1)	-	3.5	-	1.0
EB (50/125 GIGALite-10, OM3)	-	3.0	-	1.0
FB (50/125 GIGALite 10-FB, OM4)	-	3.0	-	1.0
GB (62.5/125 GIGALite, OM1 + Extended Distance)	-	3.0	-	1.0
LB (50/125 GIGALite, OM2+ Extended Distance)	-	3.0	-	1.0
XB (50/125 GIGALite10-XB, OM4+ Extended Distance)	-	3.0	-	1.0
ZB (50/125 FDDI, OM2)	-	3.5	-	1.5

### 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]
1	2.4	90.0	3.6	28	300
2	2.4	90.0	3.6	28	300

### Product List

☎=Make to order, 📦=Make to stock

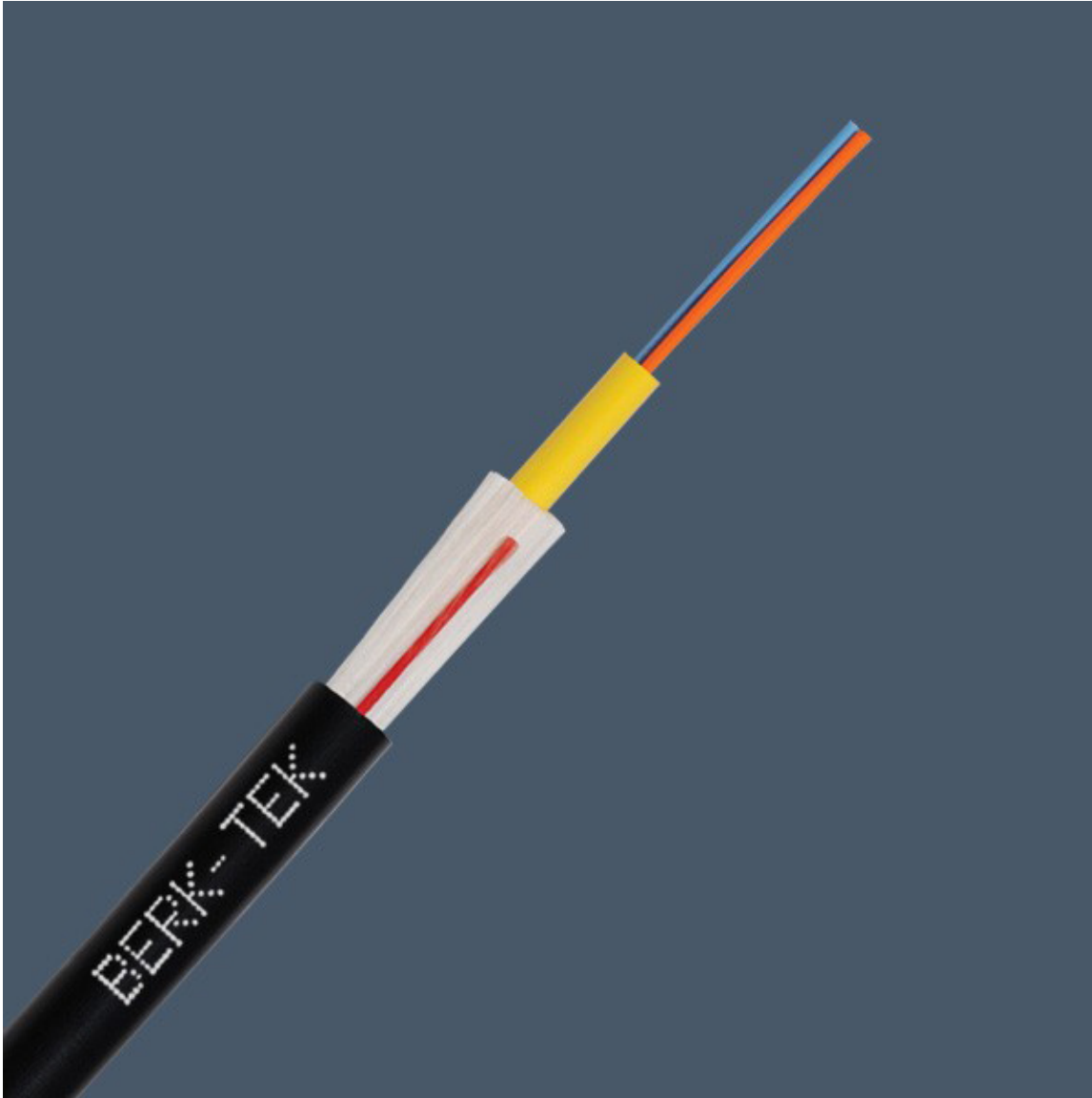
Part Number	Description
☎ ATP001CB3510/25	1 x OM1 Adventum Tight Buffer Plenum
☎ ATP001GB3510/25	1 x OM1+ Adventum Tight Buffer Plenum
☎ ATP001ZB3515/55	1 x OM2 Adventum Tight Buffer Plenum
☎ ATP001LB3010/75	1 x OM2+ Adventum Tight Buffer Plenum
☎ ATP001EB3010/25	1 x OM3 Adventum Tight Buffer Plenum
☎ ATP001FB3010/F5	1 x OM4 Adventum Tight Buffer Plenum
☎ ATP001XB3010/X5	1 x OM4+ Adventum Tight Buffer Plenum
☎ ATP001AB0707	1 x SMF Adventum Tight Buffer Plenum
☎ ATP002CB3510/25	2 x OM1 Adventum Tight Buffer Plenum
☎ ATP002GB3510/25	2 x OM1+ Adventum Tight Buffer Plenum
☎ ATP002ZB3515/55	2 x OM2 Adventum Tight Buffer Plenum
☎ ATP002LB3010/75	2 x OM2+ Adventum Tight Buffer Plenum
☎ ATP002EB3010/25	2 x OM3 Adventum Tight Buffer Plenum
☎ ATP002FB3010/F5	2 x OM4 Adventum Tight Buffer Plenum
☎ ATP002XB3010/X5	2 x OM4+ Adventum Tight Buffer Plenum
☎ ATP002AB0707	2 x SMF Adventum Tight Buffer Plenum

☎ = Make to order, 📦 = Make to stock

## Adventum Tight Buffer Plenum Drop Cable

### Image of ATP Cable

2-Fiber ATP Construction



### 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.