

Indoor/Outdoor Plenum Adventum® (LTP)

6 x OM4 Adventum Plenum Cable

Contact

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

Part Number: LTP006FB3010/F5

Berk-Tek's revolutionary Outdoor/Indoor Adventum cables are designed to be used in plenum rated environments. Adventum supports the latest Gigabit Communications Protocols, including Gigabit Ethernet and ATM. This cable design utilizes dry water-blocking technology that 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 plenum 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 plenum cable is available in 6 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.

These cables are compliant with the Wire and Cable Requirements of NFPA 130 (2014), section 12.2 Flame Spread and Smoke Release. They are suitable for railway and mass transit infrastructure in tunnels, as well as for Tray installations in industrial environments.

Buffer Tube Construction

Dry water-blocked color coded loose tubes containing up to 12, 250 µm, individually colored fibers.

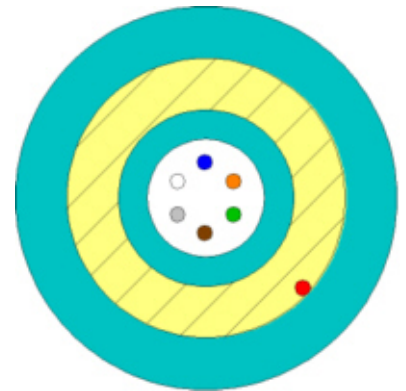
Applications

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

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

- ETHERNET: 10BASE – 40GBASE (10BASE, 100BASE, 1000BASE, 10GBASE, 40GBASE, 100GBASE, 400GBASE)
- Fibre Channel: 1G-FC – 128GFC (1, 2, 4, 8, 16, 32, 128 GFC)
- SONET: OC-1 – OC-768 (OC -1, 3, 12, 24, 48, 192, 768)
- SDH: STM-0 – STM-256 (STM-0, 1, 4, 16, 64, 256)
- OTN: OTU-1 – OTU4 (OTU1, 2, 2e, 2f, 3, 3e2, 4)
- CPRI: CPRI-1 – CPRI-9 (CPRI-1, 2, 3, 4, 5, 6, 7, 7a, 8, 9)
- PON (SMF ONLY): RFoG, APON, BPON, EPON, GPON, WDM-PON, NG-PON

Features



STANDARDS

International EN 50173; ISO/IEC 11801

National ANSI/ICEA S-104-696; ANSI/ICEA S-83-596; ANSI/TIA-568.3-D; NFPA 130; Telcordia GR-409

Indoor/Outdoor Plenum Adventum® (LTP)

6 x OM4 Adventum Plenum Cable

Contact

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

- Designed to support Gigabit Ethernet, Gigabit ATM, Fibre Channel and other high-speed applications
- Plenum rating enables installation to go directly from outside plant to riser shaft or through plenum spaces
- Cable core and buffer tubes use dry water-blocking technology
- All dielectric design
- Sunlight resistant outer jacket per UL 444 clause 7.22 protects the cable in outside plant installations
- Available with Aluminum Interlock Armor

Benefits

- Compact, water blocked, plenum 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

Fiber optic type	OM4 50/125
Type of cable	Loose tube
Jacket Material	Plenum
Sheath colour	Aqua

Dimensional characteristics

Tube diameter	3 mm
Number of optical fibres	6
Cable diameter (Nominal)	0.26 in
Nominal outer diameter	6.6 mm
Nominal cable weight	30 lb/kft
Approximate weight	45 kg/km

Transmission characteristics

Optical performance	FB (50/125 GIGAlite 10-FB, OM4)
Attenuation, max. 850 nm (cabled)	3.0 dB/km
Attenuation, max. 1300 nm (cabled)	1.0 dB/km

Mechanical characteristics

Maximum installation tension	150 lb
Maximum installation tension	667 N
Max. Load. Long Term (lbs)	45.0 lb
Max. Load. Long Term	200.0 N
Impacts per TIA/EIA FOTP-25	2 at 4.41 N-m
Crush resistance per TIA/EIA FOTP-41	110 N/cm
Cable flexibility per TIA/EIA FOTP-104	100 cycles

Usage characteristics

Minimum Bending Radius - Install	3.9 in
----------------------------------	--------

All drawings, designs, specifications, plans and particulars of weights, size and dimensions contained in the technical or commercial documentation of Nexans is indicative only and shall not be binding on Nexans or be treated as constituting a representation on the part of Nexans.

Generated 4/28/20 www.nexans.us Page 2 / 3



Indoor/Outdoor Plenum Adventum® (LTP)

6 x OM4 Adventum Plenum Cable

Contact

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

Usage characteristics

Minimum Bend Radius - Install	9.9 cm
Minimum Bending Radius - LongTerm	2.6 in
Minimum Bending Radius - LongTerm	6.6 cm
Recommended operating temperature range	-40 .. 75 °C
Ambient installation temperature, range	-20 .. 60 °C
Recommended storage temperature range	-60 .. 85 °C
Field of application	Indoor, Outdoor

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	Yellow
CB	62.5	OM1	200 MHz-km	200 MHz-km	3.5 dB/km	1.0 dB/km	NS	Orange
EB	50	OM3	2000 MHz-km	1500 MHz-km	3.0 dB/km	1.0 dB/km	NS	Aqua
FB	50	OM4	4700 MHz-km	3500 MHz-km	3.0 dB/km	1.0 dB/km	NS	Aqua
XB	50	OM4+	4900 MHz-km	3675 MHz-km	3.0 dB/km	1.0 dB/km	NS	Violet
WB	50	OM5	4700 MHz-km	3500 MHz-km	3.0 dB/km	1.0 dB/km	NS	Lime Green

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.