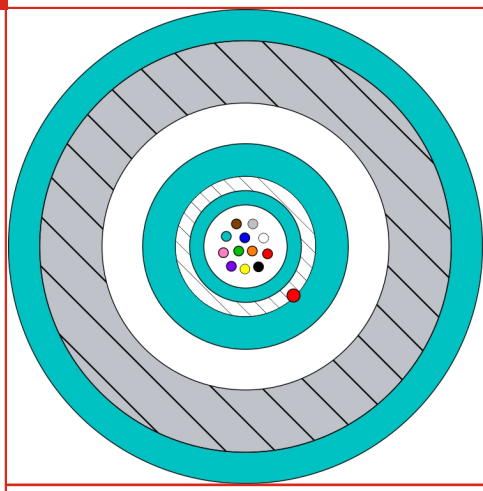
Indoor/Outdoor Plenum Adventum® w/ Armor-Tek™ (LTPK)

12 x OM4 Adventum Plenum with Interlock Armor

Contact
Copper LAN Product Inquiry
Phone: 717-354-6200
berktek.support@leviton.com



Part Number: LTPK012FB3010/F5

Berk-Tek's Adventum Armor-Tek products consist of indoor/outdoor rated fiber optic loose tube cables encased with an aluminum spirally wrapped armor in an interlocking configuration. The armored cable is then covered with a plenum 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 plenum flame rated jacket.

Applications

Armor-Tek fiber cables can be used in any of the following installation enviroments: 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 full ratio, for areas where extra physical security is a concern, in fast track installations, between buildings, or in trays.

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):

- ETHERNET: 10BASE – 400GBASE (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): RFoG, APON, BPON, EPON, GPON, WDM-PON, NG-PON

Features

- Multimode, Single-mode and GIGAlite™ fibers
- Available with new bend-optimized single-mode fibers
- Jacketed armor remains flexible due to the spiral wrap armoring process
- Easy one-pull installation into any environment
- Compact outside diameters when compared to plenum innerduct or conduit
- High tensile strength, crush resistant
- UV resistant outer jacket protects the cable in outside plant installations
- Available Harsh Environment (HE), cables offer superior resistance to chemicals and fuels. Suitable for Petro-Chemical, Industrial, and airport installations.

Benefits

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

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.

Nexans

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- Eliminates the need for conduit or plenum innerduct
- Significant cost savings in both materials and labor - up to 25%
- Accommodates last minute relocations or pathway changes
- Provides a higher concentration of cables in an area than conduit
- Can be installed in campus environments due to the durability and indoor/outdoor rating of the cable
- Armor provides crush protection and protection from rodent attacks

Country of Origin: U.S.A.

CHARACTERISTICS

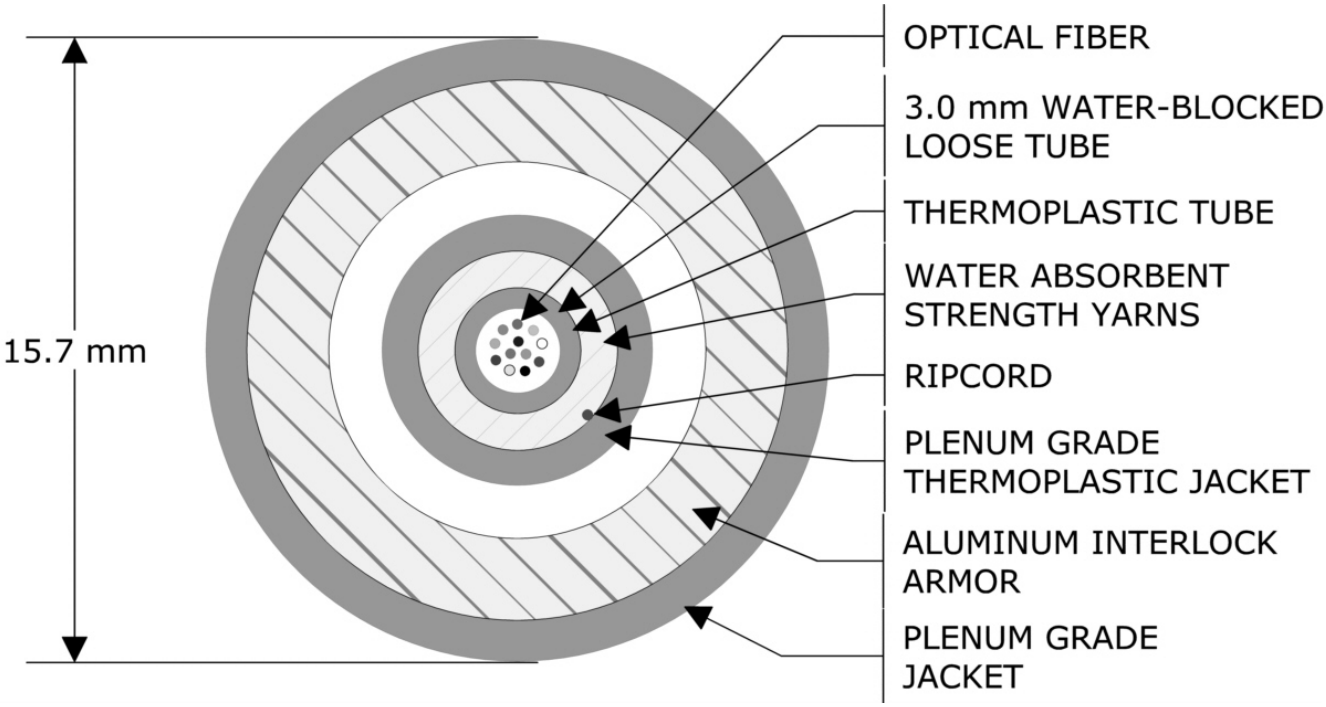
Construction characteristics	
Fiber optic type	OM4 50/125
Type of cable	Loose tube
Jacket Material	Plenum
Sheath colour	Aqua
Armour type	Aluminum Interlock
Dimensional characteristics	
Tube diameter	3 mm
Number of optical fibres	12
Cable diameter (Nominal)	0.62 in
Nominal outer diameter	15.7 mm
Nominal cable weight	136 lb/kft
Approximate weight	202 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	300 lb
Maximum installation tension	1335 N
Max. Load. Long Term (lbs)	90.0 lb
Max. Load. Long Term	400.0 N
Crush resistance per TIA/EIA FOTP-41	440 N/cm
Cable flexibility per TIA/EIA FOTP-104	100 cycles
Impacts per TIA/EIA FOTP-25	2 at 5.88 N-m
Usage characteristics	
Minimum Bending Radius - Install	9.3 in
Minimum Bend Radius - Install	23.6 cm
Minimum Bending Radius - LongTerm	6.2 in
Minimum Bending Radius - LongTerm	15.7 cm
Recommended operating temperature range	-40 .. 75 °C
Ambient installation temperature, range	-20 .. 60 °C

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Usage characteristics	
Recommended storage temperature range	-60 .. 85 °C
Field of application	Indoor, Outdoor

CROSS-SECTION DIAGRAM - LTPK012



MANUFACTURING RELEASE

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