

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

**Adventum Plenum Rated Indoor/Outdoor Optical Cable** 

6 x OS2 Adventum Plenum Cable Part Number: LTP006AB0403

Berk-Tek's revolutionary Outdoor/Indoor Adventum<sup>™</sup> 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 Berk-Tek's unique DryGel<sup>™</sup> 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 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<sup>™</sup> 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 (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, ICEA-640, and ICEA-696 standards where applicable.

# **Buffer Tube Construction**

DryGel blocked color coded loose tubes containing up to 12, 250  $\mu\text{m},$  individually colored fibers.

# Applications

Berk-Tek recommends installation procedures per ANSI/TIA-758, Customerowned 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:

- 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

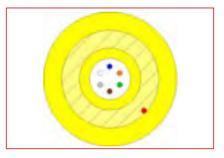
### Features

- Designed to support Gigabit Ethernet, Gigabit ATM, Fibre Channel and other high-speed applications
- Plenum rating enables installation to go directly from outside plant to riser shaft or through plenum spaces
- · Cable core and buffer tubes use DryGel water blocking system
- All dielectric design
- UV resistant outer jacket protects the cable in outside plant installations

### **Benefits**

Compact, water blocked, plenum rated, flexible loose tube design of all dielectric

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Standards

International EN 50173; ISO/ IEC 11801

National ANSI/ICEA S-104-696; ANSI/ICEA S-87-640; ANSI/TIA-568-C.3; NFPA 130; Telcordia GR-409

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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**

SM (G657	57.A1)
Loose	e tube
Ple	lenum
Yi	Yellow
3	3 mm
	6
0.	).26 in
6.6	.6 mm
30	) lb/kft
45 k	kg/km
AB (Single-mode, 0	OS2)
0.4 dl	dB/km
0.3 dl	dB/km
3	300 lb
13	335 N
90	90.0 lb
400	0.0 N
2 at 4.41	1 N-m
110	N/cm
100 c	cycles
3	3.9 in
9.	9.9 cm
2	2.6 in
6.	6.6 cm
-40 7	75 °C
-20 6	60 °C
-60 8	85 °C
Indoor, Out	utdoor

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### Standard Sheath Colors

	Core	ISO-TIA	Effective Modal	Overfilled Launch	Attenuation	Attenuation	Attenuation	
Fiber Type	Size	Standard	BW @ 850 nm	BW @ 850 nm	@ 850 nm	@ 1300 nm	@ 1550 nm	Sheath Color
	(um)							
AB	8.3	OS2	NS	NS	NS	0.4 dB/km	0.3 dB/km	Yellow
СВ	62.5	OM1	200 MHz-km	200 MHz-km	3.5 dB/km	1.0 dB/km	NS	Orange
GB	62.5	OM1+	500 MHz-km	350 MHz-km	3.5 dB/km	1.0 dB/km	NS	Orange
ZB	50	OM2	500 MHz-km	500 MHz-km	3.5 dB/km	1.5 dB/km	NS	Orange
LB	50	OM2+	950 MHz-km	700 MHz-km	3.0 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

# Manufacturing Release

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