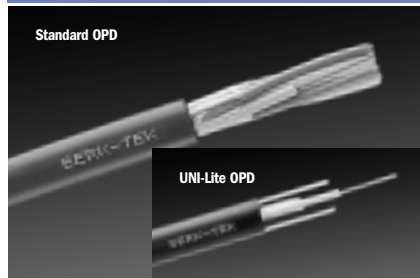


LOOSE TUBE



FIBER OPTIC CABLE

- ▶ Single-mode, Multimode and GIGALite™
- ▶ Backbone
- ▶ Outside Plant
- ▶ RoHS Compliant

OUTSIDE PLANT

Berk-Tek®
A NEXANS COMPANY

www.berktek.com

1-800-237-5835

Berk-Tek's Outside Plant Loose Tube fiber optic cables are designed for installation in harsh environments such as direct burial, aerial lashing, conduit and pathways that are subjected to wide temperature variations. The Outside Plant product line offers 2 to 216 fibers per cable. These cables are thoroughly tested and verified to Telcordia GR-20 and ICEA-640 for outside cabling systems.

Berk-Tek's Outdoor Loose Tube cables are available in multi-mode, singlemode and GIGALite™ fibers.

CONSTRUCTION

Gel-filled tubes containing up to 12, 250 µm, individually colored fibers.

OUTDOOR CONSIDERATION

Berk-Tek recommends that loose tube cables be utilized in an outside plant installation environment. Loose tube cables are especially recommended if the interbuilding conduit system is above the frost line and likely to fill with water.

STANDARDS

International	ISO/IEC 11801
European	EN 50173
North American	ANSI/TIA/EIA-568-B3
	Telcordia GR-20
	ANSI/ICEA S-87-640

APPLICATIONS

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

IEEE 802.3 FOIRL	10 Mb/s
IEEE 802.3 10BASE-F	10 Mb/s
IEEE 802.3 1000BASE-SX/LX	1000 Mb/s
FDDI	100 Mb/s
ATM	155 Mb/s
	622 Mb/s
	1.2/2.4 Gb/s
Fibre Channel FC-PH	1.062 Gb/s

FEATURES

- ▶ High tensile strength, crush resistant and small diameter design
- ▶ Single-mode, multimode and hybrid design options available
- ▶ Support Token Ring, 10BASE-F, Gigabit Ethernet, Fast Ethernet, FOIRL, Fibre Channel FC-PH, ATM, FDDI, Sonet, voice, video and other networking systems
- ▶ Highest bandwidth available in a cable medium
- ▶ All dielectric design
- ▶ Fully water-blocked core using dry water blocking system
- ▶ Also available in Low Smoke Zero Halogen and Armored designs

BENEFITS

- ▶ Provides for greater pulling distances thus reducing installation time
- ▶ Broad design selection allows for mix and match of fiber components to specific networking applications
- ▶ One cable design meeting all structured cabling applications
- ▶ System grounding problems eliminated
- ▶ Long-term reliability
- ▶ Low cable plant maintenance, ease of installation
- ▶ Reduce network costs

TEMPERATURE RATING

Operation	-40°C to +75°C
Storage	-40°C to +85°C
Installation	-30°C to +60°C

PART NUMBER SELECTION GUIDE

- ▶ Select the product prefix corresponding to the cable configuration and quantity of fibers desired, in Table A.
- ▶ Then choose the product's suffix corresponding to the type of fiber desired, in Table B or Table C.

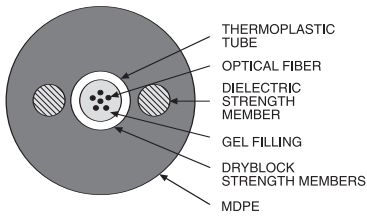
Example: OPD012-CB3510/25

RoHS
COMPLIANT

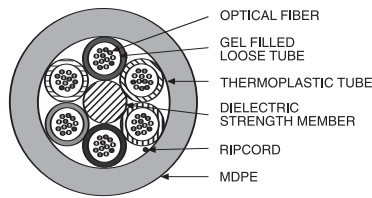
LOOSE TUBE

FIBER OPTIC CABLE

OUTSIDE PLANT



UNI-Lite (OPDxxx)



Stranded (OPDD12Bxxx)

Berk-Tek®
A NEXANS COMPANY

www.berktek.com

1-800-237-5835

TECHNICAL DATA—PHYSICAL (TABLE A)

FIBERS	PRODUCT PREFIX	DIAMETER		WEIGHT		MIN. BEND RADIUS				MAX. LOADING			
		in.	mm	lb./kft.	kg/km	INSTALL		LONG TERM		INSTALL		LONG TERM	
						in.	cm	in.	cm	lb.	N	lb.	N
2	OPD002-*	0.400	10.1	51	76	6.0	15.2	4.0	10.1	600	2670	200	890
4	OPD004-*	0.400	10.1	51	76	6.0	15.2	4.0	10.1	600	2670	200	890
6	OPD006-*	0.400	10.1	51	76	6.0	15.2	4.0	10.1	600	2670	200	890
8	OPD008-*	0.400	10.1	51	76	6.0	15.2	4.0	10.1	600	2670	200	890
12	OPD012-*	0.400	10.1	51	76	6.0	15.2	4.0	10.1	600	2670	200	890
12	OPDD12B012-	0.417	10.6	55	82	6.2	15.8	4.2	10.6	600	2670	200	890
18	OPDD12B018-	0.417	10.6	55	84	6.2	15.8	4.2	10.6	600	2670	200	890
24	OPDD12B024-	0.451	11.5	72	107	6.8	17.2	4.5	11.5	600	2670	200	890
36	OPDD12B036-	0.451	11.5	72	107	6.8	17.2	4.5	11.5	600	2670	200	890
48	OPDD12B048-	0.451	11.5	72	107	6.8	17.3	4.5	11.4	600	2670	200	890
60	OPDD12B060-	0.451	11.5	72	107	6.8	17.3	4.5	11.4	600	2670	200	890
72	OPDD12B072-	0.489	12.4	83	124	7.3	18.6	4.9	12.4	600	2670	200	890
84	OPDD12B084-	0.527	13.4	96	144	7.9	20.1	5.3	13.4	600	2670	200	890
96	OPDD12B096-	0.565	14.4	114	170	8.5	21.5	5.7	14.4	600	2670	200	890
108	OPDD12B108-	0.603	15.3	128	191	9.0	23.0	6.0	15.3	600	2670	200	890
120	OPDD12B120-	0.642	16.3	145	216	9.6	24.5	6.4	16.3	600	2670	200	890
132	OPDD12B132-	0.681	17.3	163	243	10.2	25.9	6.8	17.3	600	2670	200	890
144	OPDD12B144-	0.720	18.3	182	271	10.8	27.4	7.2	18.3	600	2670	200	890
216	OPDD12B216-	0.730	18.5	216	322	11.0	27.8	7.3	18.5	1000	4448	250	1112

*Indicates UNI-Lite™ construction; **Sheath:** black, MDPE; **Packaging:** Reels; **Note:** Outdoor Loose Tube also available with Riser and Zero Halogen ratings.

FIBER TECHNICAL DATA (MULTIMODE) (TABLE B)

FIBER TYPE	FIBER SUFFIX	WAVELENGTH (nm)	MAXIMUM ATTENUATION (dB/km)	BANDWIDTH (MHz/km)	LENGTH (meters @ 850/1300 nm)
62.5/125 µm-Standard	CB3510/25	850/1300	3.5/1.0	200/500*	1 GbE — 300/600
62.5/125 µm-GIGAlite™	GB3510/25	850/1300	3.5/1.0	200/500**	1 GbE — 500/1000
50/125 µm-GIGAlite™	LB3010/75	850/1300	3.0/1.0	700/500**	1 GbE — 750/600
50/125 µm-GIGAlite 10	EB3010/25	850/1300	3.0/1.0	2000***/500*	10 GbE — 300/300

Contact customer service for more information. *Overfilled Bandwidth Measurement per EIA FOTP 204—Paragraph 3.2.1. **Restricted Mode Launch per EIA FOTP 204—Paragraph 3.2.2. ***Differential Mode Delay per EIA FOTP-220 DMD Test Measurement. For the most current optical fiber specifications, please visit our website at www.berktek.com. Berk-Tek reserves the right to modify optical performance specifications without prior notice.

FIBER TECHNICAL DATA (SINGLE-MODE) (TABLE C)

FIBER TYPE	FIBER SUFFIX	WAVELENGTH (nm)	MAXIMUM ATTENUATION (dB/km)	BANDWIDTH (MHz/km)	LENGTH (meters @ 1300 nm)
Standard for loose tube	AB0403	1310/1550	0.4/0.3*	NA	1 GbE ≥ 5km

*Different attenuation values available. Call 1-800-BERK-TEK. For the most current optical fiber specifications, please visit our website at www.berktek.com. Berk-Tek reserves the right to modify optical performance specifications without prior notice.

Corporate Headquarters: 132 White Oak Road, New Holland, PA 17557 USA **In Canada, please contact:** Nexans Canada Inc., 140 Allstate Parkway, Markham, Ontario L3R 0Z7 Canada