

- ▶ Singlemode, Multimode and GIGAlite™
- ▶ Backbone, Horizontal and Patch Cable
- ▶ Riser and Plenum Rated

Berk-Tek
A NEXANS COMPANY

www.berktek.com

1-800-237-5835

Berk-Tek's tight buffered, fiber optic cable is designed for installation in Riser/Plenum environments and horizontal and interbuilding backbone structures.

Berk-Tek's tight buffered cable is available with standard multimode, singlemode and GIGAlite™ fibers.

CONSTRUCTION

900 µm buffered fibers surrounded by aramid yarns. Sheathed using a special, state-of-the-art polymer material. All dielectric.

OUTDOOR CONSIDERATION

If used outdoors, Berk-Tek recommends premise distribution cables be installed in conduit below the frost line.

STANDARDS

International	ISO/IEC 11801
European	EN 50173
North American	Telcordia GR-409
	ICEA S-83-596
	UL OFNR/FT4
	UL OFNP/FT6

APPLICATIONS

Berk-Tek's tight buffered 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	1 Gb/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

- ▶ Flexible, small diameter, 900 µm tight-buffered construction
- ▶ High tensile strength and small diameter design
- ▶ Six to 144 count fiber construction riser designs ideal for horizontal and backbone and installation
- ▶ Singlemode, multimode, and hybrid designs available
- ▶ Support token ring, 10BASE-F, Fast Ethernet, FOIRL, Fibre Channel FC-PH, ATM, Gigabit Ethernet, FDDI, Sonet, voice, video and other networking applications
- ▶ Also available in low smoke zero halogen design

BENEFITS

- ▶ Cost-saving design, easy to install and terminate
- ▶ Provides for greater pulling distances thus reducing installation time
- ▶ Assurance that cables will meet required specifications for communication networking applications
- ▶ Broad design selection allows for mix and match of fiber components to specific networking applications
- ▶ One cable design meeting all structured cabling network communications applications

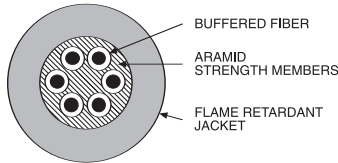
TEMPERATURE RATING

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

PART NUMBER SELECTION GUIDE

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

Example: PDR012-CB3510/25



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RISER RATED TECHNICAL DATA—PHYSICAL (TABLE A)

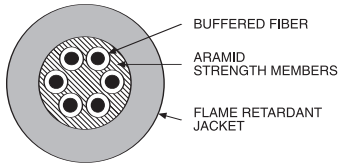
FIBERS	PRODUCT PREFIX	DIAMETER		WEIGHT		MIN. BEND RADIUS				MAX. LOADING			
		in.	mm	lb./kft.	kg/km	install		long term		install		long term	
						in.	cm	in.	cm	lb.	N	lb.	N
6	PDR006-	0.256	6.5	26	39	3.8	9.8	2.6	6.5	150	660	45	198
8	PDR008-	0.268	6.8	29	42	4.0	10.2	2.7	6.8	150	660	45	198
12	PDR012-	0.278	7.1	32	48	4.2	10.6	2.8	7.1	150	660	45	198
18	PDR018-	0.304	7.7	43	64	4.6	11.7	3.0	7.7	300	1320	90	396
24	PDR024-	0.354	9.1	55	82	5.3	13.5	3.5	9.0	300	1320	90	396
18	PDR6B018-	0.495	12.6	86	129	7.4	18.9	5.0	12.6	300	1320	90	396
24	PDR6B024-	0.541	13.7	104	154	8.1	20.6	5.4	13.7	300	1320	90	396
24	PDR12B024-	.458 X .252	11.6 X 6.4	49	73	3.8	9.6	2.5	6.4	300	1320	90	396
36	PDR6B036-	0.651	16.5	115	171	8.1	20.5	5.4	13.7	300	1320	90	396
48	PDR12B048-	0.590	15.0	130	193	8.9	22.5	5.9	15.0	300	1320	90	396
60	PDR12B060-	0.657	16.7	157	234	9.9	25	6.6	16.7	300	1320	90	396
72	PDR12B072-	0.732	18.6	191	285	11.0	27.9	7.3	18.6	300	1320	90	396
84	PDR12B084-	0.780	19.8	227	338	11.7	29.7	7.8	19.8	300	1320	90	396
96	PDR12B096-	0.880	22.3	268	399	13.2	33.5	8.8	22.3	300	1320	90	396
108	PDR12B108-	0.894	22.7	315	469	13.4	34.1	8.9	22.7	300	1320	90	396
120	PDR12B120-	0.940	23.9	289	430	14.1	35.8	9.4	23.9	300	1320	90	396
132	PDR12B132-	0.940	23.9	289	430	14.1	35.8	9.4	23.9	300	1320	90	396
144	PDR12B144-	0.940	23.9	289	430	14.1	35.8	9.4	23.9	300	1320	90	396

Flame Rating: OFNR/FT4, Sheath: riser rated, PVC, Packaging: Reels

PLENUM RATED 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
6	PDP006-	0.170	4.3	13	19	2.5	6.5	1.7	4.3	100	440	30	132
8	PDP008-	0.182	4.6	14	21	2.7	6.9	1.8	4.6	100	440	30	132
12	PDP012-	0.206	5.2	17	25	3.1	7.8	2.1	5.2	100	440	30	132
18	PDP6B018-	0.474	12.0	91	135	7.1	18.0	4.7	12.0	150	660	45	198
24	PDP6B024-	0.520	13.2	109	162	7.8	19.8	5.2	13.2	150	660	45	198
24	PDP12B024-	.454 X .252	11.5 X 6.4	64	95	7.8	19.8	5.2	13.2	150	660	45	198
36	PDP6B036-	0.620	15.7	115	171	7.8	19.7	5.2	13.2	150	660	45	198
48	PDP12B048-	0.565	14.4	132	196	8.5	21.5	5.7	14.4	150	660	45	198
60	PDP12B060-	0.624	15.8	166	247	9.4	23.8	6.2	15.8	150	660	45	198
72	PDP12B072-	0.695	17.7	216	322	10.5	26.6	7.0	17.7	150	660	45	198
96	PDP12B096-	0.830	21.1	218	325	12.5	31.8	8.3	21.1	150	660	45	198
144	PDP12B144-	0.920	23.4	328	489	13.8	35.1	9.2	23.4	150	660	45	198

Flame Rating: OFNP/FT6, Sheath: plenum rated, thermoplastic, Packaging: Reels



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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™	LB3515/75	850/1300	3.5/1.5	700/500**	1 GbE—750/2000
50/125 μm-GIGAlite 10	EB3515/25	850/1300	3.5/1.5	2000***/500*	10 GbE—300/300 1 GbE—1000/550
50/125 μm-GIGAlite-10XB	XB3510/X5	850/1300	3.0/1.5	4900/500	10 GbE—600†/300 1 GbE—1210/600


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. †600 m for 10GBase-SR: 3.0 dB/km cable attenuation and 0.65 dB connection loss utilizing two mated LC connector pairs. 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 (SINGLEMODE) (TABLE B)


FIBER TYPE	FIBER SUFFIX	WAVELENGTH (nm)	MAXIMUM ATTENUATION (dB/km)	BANDWIDTH (MHz/km)	LENGTH (METERS @ 1300 nm)
Standard for loose tube	AB0504	1310/1550	0.5/0.4*	NA	1 GbE—5km
Standard for Interconnect (IC, MC and RD)	AB0707	1310/1550	0.7/0.7	NA	NA
Standard for Premise Distribution	AB1010	1310/1550	1.0/1.0	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.


Whatever your network application, Berk-Tek has the high-performance copper and fiber cabling solutions.




- ▶ LANmark-2000 is the highest performing Cat 6 UTP cable in the industry, supporting video, voice over IP and the next generation of networking applications.




- ▶ LANmark-1000 is a premium Cat 6 cabling solution designed for Gigabit ethernet support.




- ▶ LANmark-350™ is the Premium Cat 5e solution ideal for supporting 100BASE-T Ethernet networks.



- ▶ 25 pair Cat 5e UTP delivers the performance of Cat 5e and the economies of zone cabling. Perfect where MACs are a consideration.



- ▶ Premise Distribution series optical fiber cable, available with our revolutionary GIGAlite™ and GIGAlite-10 optical fiber technologies.



- ▶ ADVENTUM™ is the cost saving plenum or riser rated, outdoor/indoor optical fiber solution that is fully water-blocked using our dry water blocking technology.

With over 100 different optical fiber, UTP, FTP and hybrid network cable products, offering robust, guaranteed superior product performance, independent verification, an extensive list of value-added services and state-of-the-art engineering, Berk-Tek delivers one of the most complete product lines in the industry.

As a result, Berk-Tek provides clear advantages within every cable series, for every application. Our experience includes virtually every possible networking application and configuration.

For more information, including downloadable tech specs, visit www.berktek.com or call 1-800-BERK-TEK.

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