

- ▶ Single-mode, Multimode and GIGAlite™
- ▶ Backbone, Horizontal and Patch Cable
- ▶ Riser and Plenum Rated
- ▶ RoHS Compliant

**Berk-Tek®**  
A NEXANS COMPANY

🌐 [www.berktek.com](http://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, single-mode 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

Black jacketed and water-blocked versions of both riser and plenum cables available upon request for outdoor installations. Outdoor versions feature UV and fungus resistant jacketing.

### STANDARDS

International	ISO/IEC 11801
European	EN 50173
North American	Telcordia GR-409
	ICEA S-83-596
	OFNR/FT4
	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
- ▶ Single-mode, 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
- ▶ Suitable for indoor/outdoor installations in conduit, below the frost line

### 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

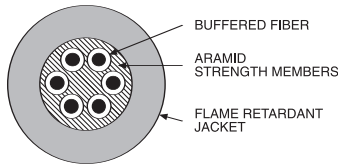
Operation	-20°C to +75°C
Storage	-40°C to +85°C
Installation	0°C to +60°C

### 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

**RoHS**  
COMPLIANT



Premises Distribution up to 24 Fiber

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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-	0.224	5.7	19	29	3.4	8.5	2.2	5.7	300	1335	90	400
8	PDR008-	0.236	6.0	21	32	3.5	9.0	2.4	6.0	300	1335	90	400
12	PDR012-	0.246	6.2	25	37	3.7	9.4	2.5	6.2	300	1335	90	400
18	PDR018-	0.280	7.7	32	48	4.2	10.7	2.8	7.1	400	1780	120	534
24	PDR024-	0.335	8.5	42	62	5.0	12.8	3.4	8.5	400	1780	120	534
24	PDR12B024-	0.458 X 0.252	11.6 X 6.4	55	82	7.6	19.2	5.0	12.8	400	1780	120	534
36	PDR6B036-	0.555	14.1	108	161	8.3	21.1	5.6	14.1	600	2670	180	800
48	PDR12B048-	0.590	15.0	131	196	8.9	22.5	5.9	15.0	600	2670	180	800
60	PDR12B060-	0.657	16.7	165	246	9.9	25.0	6.6	16.7	600	2670	180	800
72	PDR12B072-	0.732	18.6	203	301	11.0	27.9	7.3	18.6	600	2670	180	800
84	PDR12B084-	0.880	22.4	283	421	13.2	33.5	8.8	22.4	600	2670	180	800
96	PDR12B096-	0.880	22.4	291	433	13.2	33.5	8.8	22.4	600	2670	180	800
108	PDR12B108-	0.894	22.7	329	490	13.4	34.1	8.9	22.7	600	2670	180	800
120	PDR12B120-	0.940	23.9	295	439	14.1	35.8	9.4	23.9	600	2670	180	800
132	PDR12B132-	0.940	23.9	307	457	14.1	35.8	9.4	23.9	600	2670	180	800
144	PDR12B144-	0.940	23.9	310	461	14.1	35.8	9.4	23.9	1000	4445	300	1335

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

## PLENUM RATED TECHNICAL DATA—PHYSICAL (TABLE B)

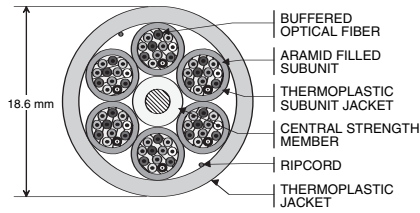
FIBERS	PRODUCT PREFIX	DIAMETER		WEIGHT		MIN. BEND RADIUS				MAX. LOADING			
		in.	mm	lb./kft.	kg/km	install		long term		install		long term	
						in.	cm	in.	cm	lb.	N	lb.	N
6	PDP006-	0.18	4.6	12	18	2.7	6.9	1.8	4.6	300	1335	90	400
8	PDP008-	0.18	4.6	14	21	2.7	6.9	1.8	4.6	300	1335	90	400
12	PDP012-	0.21	5.3	18	26	3.2	8.0	2.1	5.3	300	1335	90	400
18	PDP018-	0.26	6.7	29	44	3.9	10.0	2.6	6.7	400	1780	120	534
24	PDP024-	0.29	7.2	37	55	4.3	10.9	2.9	7.2	400	1780	120	534
24	PDP12B024-	0.45 X 0.25	11.5 X 6.4	58	87	7.6	19.2	5.0	12.4	300	1335	90	400
36	PDP12B036-	0.52	13.2	112	166	7.8	19.8	5.2	13.2	600	2670	180	800
48	PDP12B048-	0.57	14.4	136	202	8.5	21.5	5.7	14.4	600	2670	180	800
60	PDP12B060-	0.63	16.1	168	250	9.5	24.1	6.3	16.1	600	2670	180	800
72	PDP12B072-	0.70	17.7	212	316	10.4	26.5	7.0	17.7	600	2670	180	800
96	PDP12B096-	0.87	22.0	313	466	13.0	33.0	8.7	22.0	600	2670	180	800
144	PDP12B144-	0.92	23.4	318	474	13.8	35.1	9.2	23.4	1000	4445	300	1335

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

TIGHT BUFFERED

FIBER OPTIC CABLE

PREMISES DISTRIBUTION



Premises Distribution with 12 Fiber Subunits  
24 Fiber to 144 Fiber

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FIBER TECHNICAL DATA (MULTIMODE) (TABLE C)

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
50/125 μm-GIGAlite-10XB	XB3010/X5	850/1300	3.0/1.0	4900***/500*	10 GbE—600/300

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. †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 (SINGLE-MODE) (TABLE D)

FIBER TYPE	FIBER SUFFIX	WAVELENGTH (nm)	MAXIMUM ATTENUATION (dB/km)	BANDWIDTH (MHz./km)	LENGTH (meters @ 1300 nm)
Standard for Premises Distribution	AB0707	1310/1550	0.7/0.7	N/A	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.