



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

Berk-Tek®
A NEXANS COMPANY

www.berktek.com

1-800-237-5835

Berk-Tek's Interconnect Tight Buffered, fiber optic cable is designed for installation in riser and plenum horizontal structured cabling applications.

Berk-Tek's Interconnect 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.

STANDARDS

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

APPLICATIONS

Berk-Tek's Interconnect 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
- ▶ 1 through 4 fiber design for patch cable and horizontal installations
- ▶ 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
- ▶ Designs compatible with small form factor (SFF) connectors
- ▶ Small form factor connector versions available (MC Series)

BENEFITS

- ▶ Cost-saving design easy to install and terminate
- ▶ Assurance that cables will meet required specifications for communication networking applications
- ▶ One cable design meeting all structured cabling network communications applications
- ▶ Space-saving design allows for dense cable installations

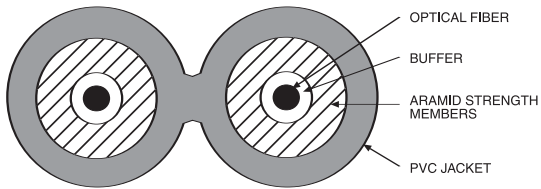
TEMPERATURE RATING

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: ICROX0-CB3510/25



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RISER RATED TECHNICAL DATA—PHYSICAL (TABLE A)

FIBERS	PRODUCT PREFIX	DIAMETER		WEIGHT		MIN. BEND RADIUS				MAX. LOADING			
						INSTALL		LONG TERM		INSTALL		LONG TERM	
		in.	mm	lb./kft.	kg/km	in.	cm	in.	cm	lb.	N	lb.	N
1	MCR001-	0.063	1.6	2	3	1.0	2.5	0.6	1.6	50	220	15	66
2 Duplex	MCROX0-	.063 X .130	1.6 X 3.3	4	6	1.0	2.5	0.6	1.6	50	220	15	66
1	ICR001-(D4)	0.079	2.0	3	5	1.2	3.0	0.8	2.0	50	220	15	66
2 Duplex	ICROX0-(D4)	.079 X .162	2.0 X 4.1	5	8	1.2	3.0	0.8	2.0	50	220	15	66
1	ICR001-	0.114	2.9	6	9	1.8	4.5	1.2	3.0	50	220	15	66
2 Duplex	ICROX0-	.114 X .232	2.9 X 5.9	12	18	1.8	4.5	1.2	3.0	50	220	15	66
2 Round	ICR002-	0.187	4.8	12	18	2.8	7.1	1.9	4.7	150	660	45	198
4	ICR004-	0.187	4.8	13	19	2.8	7.1	1.9	4.7	150	660	45	198

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			
						INSTALL		LONG TERM		INSTALL		LONG TERM	
		in.	mm	lb./kft.	kg/km	in.	cm	in.	cm	lb.	N	lb.	N
1	ICP001-	0.114	2.9	6	9	1.8	4.5	1.2	3.0	50	220	15	66
2 Duplex	ICPOX0-	.114 X .23	2.9 X 5.9	12	18	1.8	4.5	1.2	3.0	50	220	15	66
2 Round	ICP002-	0.187	4.8	12	18	2.8	7.1	1.9	4.7	150	660	45	198
4	ICP004-	0.187	4.8	13	19	2.8	7.1	1.9	4.7	150	660	45	198

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

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™	LB3515/55	850/1300	3.5/1.5	700/500**	1 GbE—750/600
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	XB3015/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.

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