TIGHT BUFFERED | FIBER OPTIC CABLE | **INTERCONNECT**

- Singlemode, Multi-mode 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 multi-mode, 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
- Ribbon Interconnect cable is compatible with multi-fiber connectors
- 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

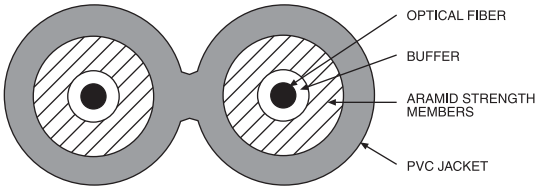
TEMPERATURE RATING

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: ICROXO-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	MCR0X0–	.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	ICR0X0–(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	ICR0X0-	.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
12 Fiber Ribbon	RDR012-	.063 X .170	1.6 X 4.3	3	5	1.0	2.5	0.6	1.6	50	220	15	66

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	ICP0X0–	.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 (MULTI-MODE) (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	500/500**	1 GbE—600/2000
50/125 µm-GIGAlite 10	EB3515/25	850/1300	3.5/1.5	2000***/500*	10 GbE—300/300 1 GbE—1000/550

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.

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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Products / Fiber / Part Numbering System

Part Numbering System

Part Number Example: PD R 12B 072 CB 3510 / 25

Code	Description	Possible Values
PD	Product Series Premises Distribution	
R	Application Qualifier Riser Rated	
12B	Subunit Count 12 Fiber	6B = 6 fibers/tube 12B = 12 fibers/tube
072	Fiber Count Available 72 Fibers	0X0 = 2 Fiber Zipcord 001 = 1 Fiber 002 = 2 Fiber Round 144 = 144 Fiber
CB	Fiber Type 62.5/125 µm Fiber, 100 kpsi	A(B) = Single mode C(B) = 62.5/125 µm G(B) = 62.5 µm GIGAlite L(B) = 50 µm GIGAlite E(B) = 50 µm GIGAlite-10
3510	Attenuation 3.5 dB/km @ 850nm maximum 1.0 dB/km @ 1300nm maximum	**Single Mode** @ 1310nm/1550nm 0504 = 0.5/0.4 dB/km 0707 = 0.7/0.7 dB/km 1010 = 1.0/1.0 dB/km **Multimode** @ 850nm/1300nm 3510 = 3.5/1.0 dB/km (62.5/125) 3515 = 3.5/1.5 dB/km (50/125)
25	Bandwidth 200 MHz-km @ 850nm maximum 500 MHz-km @ 1300nm maximum	**Multimode** @ 850nm/1300nm 25 = 200/500 (62.5/125) 55= 500/500 (50/125) 25 = 2000/500 (GIGAlite-10)

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Product Series Characteristics

Product Series	Counts	Construction	Listings
IC = Interconnect	1 to 4	Simplex Zipcord (duplex) 2 Fiber Round 4 Fiber Round	OFNR, OFN, FT4 (Riser) OFNP, OFN, FT6 (Plenum) OFNR-LS (Low Smoke)
MC = Microconnect	1 to 2	Simplex Zipcord	OFNR, FT4
PD = Premises Distribution	6 to 144, Riser 6 to 144, Plenum	6 to 12, tight buffers and aramid stranded up to 12, 6 or 12 fiber subunits stranded around central member	OFNR, OFN, FT4 (Riser) OFNP, OFN, FT6 (Plenum) OFNR-LS (Low Smoke)
HD = Heavy Duty	2 to 48, Riser 2 to 36, Plenum	1 fiber subunit stranded around optional central member	OFNR, OFN, FT4 (Riser) OFNP, OFN, FT6 (Plenum)
OP = Outside Plant	2 to 144	2 to 12, subunits and aramid, 6 or 12 fiber subunits stranded around central member	Armored, OFNR, FT4
LT = ADVENTUM	2 to 144	2 to 12, subunits and aramid, 6 or 12 fiber subunits stranded around central member	OFNR, FT4 OFNP, FT6

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