# Berk-Tek Indoor Plenum Heavy Duty Breakout w/Armor-Tek™ (HDPK)



Berk-Tek's Heavy Duty Breakout Armor-Tek cables are designed for installation in horizontal, industrial or other harsh environments where additional strength and fiber protection is required. Heavy Duty Breakout Interlock Armor cables incorporate 900 um tight buffered single-fiber aramid-filled subunits. The standard subunit diameter is 2.0 mm. Additional subunit diameters, including 1.6 mm and 2.5 mm are available. Design utilizes aluminum interlock armoring with an outer jacket. These cables are tested to the mechanical and environmental requirements of Telcordia GR-409 and ANSI/ICEA S-83-596. Berk-Tek's Heavy Duty Breakout cables are available in Multimode, Single-mode, and GIGAlite laser optimized fibers.

### DESCRIPTION

### Construction

Each cable utilizes individual subunits containing a single 900 um tight buffered fiber, surrounded by aramid yarns. Cable design accommodates from 2 to 36 fibers.

- Each fiber in an individual compact, numbered, aramid-filled subunit
- · Tape wrapped dry core
- · Colored high-strength ripcord
- Plenum rated polymers used for tight buffer, subunit, core and outer jackets
- · Aluminum interlock armor provides extra protection

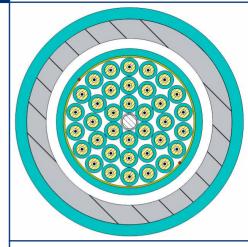
#### **Applications**

Berk-Tek's Heavy Duty Breakout cables are suitable for all passive and active optical network designs requiring high speed voice, video, and data applications, including (but not limited to):

- ETHERNET: 10BASE 400GBASE (10BASE, 100BASE, 100BASE, 10GBASE, 40GBASE, 100GBASE, 400GBASE)
- Fibre Channel: 1G-FC 128GFC (1, 2, 4, 8, 16, 32, 128 GFC)
- SONET: OC-1 OC-768 (OC -1, 3, 12, 24, 48, 192, 768)
- SDH: STM-0 STM-256 (STM-0, 1, 4, 16, 64, 256)
- OTN: OTU-1 OTU4 (OTU1, 2, 2e, 2f, 3, 3e2, 4)
- CPRI: CPRI-1 CPRI-9 (CPRI-1, 2, 3, 4, 5, 6, 7, 7a, 8, 9)
- PON (SMF ONLY): RFoG, APON, BPON, EPON, GPON, WDM-PON, NG-PON

### **Features**

- Multimode, Single-mode, and GIGAlite™ fibers
- Available with new bend-insensitive multimode and single-mode fibers
- High tensile strength, crush resistant
- · Aluminum interlock armored
- · Plenum rated design.
- Indoor/Outdoor dry water-blocked designs available



### **STANDARDS**

International EN 50173; ISO/IEC 11801

National ANSI/TIA-568.3-D; NFPA 130; Telcordia GR-409

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#### **Benefits**

- Eliminates the need for conduit or plenum innerduct
- Significant cost savings in both materials and labor up to 25%
- · Accommodates last minute relocations or pathway changes
- Provides a higher concentration of cables in an area than conduit
- · Armor provides crush protection and protection from rodent attacks

Country of Origin: U.S.A.

TECHNICAL DATA - PHYSICAL							Install		Long Term		Install		Long Term	
Fibers	Part Number Prefix Diameter		Weight		Min. Bend		Radius		Max. Lo		oading			
		in.	mm	lb./kft	kg/km	in.	cm	in.	cm	lbf.	N	lbf.	N	
2	HDPK002	0.596	15.1	144	215	8.9	22.7	6.0	15.1	150	660	45	198	
4	HDPK004	0.596	15.1	126	187	8.9	22.7	6.0	15.1	150	660	45	198	
6	HDPK006	0.676	17.2	167	249	10.1	25.8	6.8	17.2	150	660	45	198	
8	HDPK008	0.726	18.4	200	297	10.9	27.7	7.3	18.4	300	1320	90	396	
12	HDPK012	0.847	21.5	272	404	12.7	32.3	8.5	21.5	300	1320	90	396	
16	HDPK016	0.847	21.5	265	394	12.7	32.3	8.5	21.5	300	1320	90	396	
18	HDPK018	0.847	21.5	267	398	12.7	32.3	8.5	21.5	600	2640	180	792	
24	HDPK024	0.947	24.1	331	493	14.2	36.1	9.5	24.1	600	2640	180	792	
32	HDPK032	1.000	25.4	378	563	15.0	38.1	10.0	25.4	1000	4448	300	1335	
36	HDPK036	1.000	25.4	383	570	15.0	38.1	10.0	25.4	1000	4448	300	1335	

TECHNICAL DATA											
Fiber Type	Part Number Suffix	Berk-Tek Fiber	Core Size	Wavelength (nm)	Maximum Attenuation (dB/km)	Effective Modal Bandwidth @ 850 nm (MHz•km)	Distance (meters)				
Multim	ode - Bend Ins	ensitive	1 GbE	10 GbE	40 GbE	100 GbE					
OM1	CB3510/25	GIGAlite	62.5 µm	850/1300	3.5/1.0	200	300	33	N/A	N/A	
OM3	EB3010/25	GIGAlite-10	50 µm	850/1300	3.0/1.0	2000	1000	300	100	70	
OM4	FB3010/F5	GIGAlite-10FB	50 µm	850/1300	3.0/1.0	4700	1040	550	150	100	
OM4+	XB3010/X5	GIGAlite-10XB	50 µm	850/1300	3.0/1.0	4900	1210	600	300	150	
WideBa	and Multimode	- Bend Insensitiv	1 GbE	10 GbE	40 GbE	100 GbE					
OM5	WB3010/W5	GIGAlite-10WB	50 µm	850-953/1300	3.0/1.0	4700	1040	550	190	100	
Single-	Mode - Bend Ir	nsensitive - ITU-T	1 GbE	10 GbE	40 GbE	100 GbE					
OS2	AB0707	Standard for Tight Buffer	SMF	1310/1550	0.5/0.5	N/A	≥ 5000	≥ 10000	≥ 10000	≥ 10000	

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### Berk-Tek Indoor Plenum Heavy Duty Breakout w/Armor-Tek™ (HDPK)



### STANDARD SHEATH COLORS - TIGHT BUFFER

Fiber Type	Core Size (μm)	ISO-TIA Standard	Effective Modal BW @ 850 nm	Overfilled Launch BW @ 850 nm	Attenuation @ 850 nm	Attenuation @ 1300 nm	Attenuation @ 1550 nm	Sheath Color
AB	8.3	OS2	NS	NS	NS	0.5 dB/km	0.5 dB/km	Yellow
СВ	62.5	OM1	200 MHz·km	200 MHz·km	3.5 dB/km	1.0 dB/km	NS	Orange
EB	50	OM3	2000 MHz·km	1500 MHz·km	3.0 dB/km	1.0 dB/km	NS	Aqua
FB	50	OM4	4700 MHz·km	3500 MHz·km	3.0 dB/km	1.0 dB/km	NS	Aqua
ХВ	50	OM4+	4900 MHz·km	3675 MHz·km	3.0 dB/km	1.0 dB/km	NS	Violet
WB	50	OM5	4700 MHz·km	3500 MHz·km	3.0 dB/km	1.0 dB/km	NS	Lime Green

NS = Not Specified

### MANUFACTURING RELEASE

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