

Berk-Tek Indoor Plenum Tight Buffer Heavy Duty Breakout (HDP)

Berk-Tek Heavy Duty Breakout cables are designed for installation in horizontal, industrial or other harsh environments where additional strength and fiber protection is required. Heavy Duty Breakout cables incorporate 900 um tight buffered single-fiber aramid-filled subunits. The standard subunit diameter is 2.0 mm. Other designs options include interlock armoring and dry water-blocking. These cables are tested to the mechanical and environmental requirements of Telcordia GR-409 and ANSI/ICEA S-83-596. Berk-Tek Heavy Duty Breakout cables are available in Multimode, Single-mode, and GIGAlite™ 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
- Colored high-strength ripcord
- Aluminum interlock armored cables available

Applications

Berk-Tek 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 – 40GBASE (10BASE, 100BASE, 1000BASE, 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

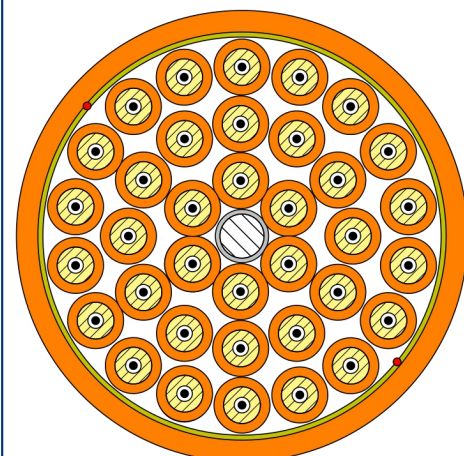
Features

- Multimode, Single-mode, and GIGAlite fibers
- High tensile strength, crush resistant
- All-dielectric, aluminum armored designs available
- Water-blocked and harsh environment designs available

Benefits

- One cable design meets all structured cabling network communications applications
- High tensile strength provides for greater pulling distances
- Ease of installation
- Broad design selection allows for mix and match of fiber components to specific networking applications
- Low cable plant maintenance
- Armor option adds crush resistance and protection from rodent attacks

Country of Origin: U.S.A.



STANDARDS

International EN 50173;
ISO/IEC 11801

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

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TECHNICAL DATA - PHYSICAL						Install		Long Term		Install		Long Term	
Fibers	Part Number Prefix	Diameter		Weight		Min. Bend Radius				Max. Loading			
		in.	mm	lb./kft	kg/km	in.	cm	in.	cm	lbf.	N	lbf.	N
2	HDP002	0.200	5.1	13	20	3.0	7.6	2.0	5.1	150	660	45	198
4	HDP004	0.264	6.7	35	53	4.0	10.1	2.6	6.7	150	660	45	198
6	HDP006	0.312	7.9	56	83	4.7	11.9	3.1	7.9	150	660	45	198
12	HDP012	0.474	12.0	124	185	7.1	18.1	4.7	12.0	300	1320	90	396
24	HDP024	0.556	14.1	164	245	8.3	21.2	5.6	14.1	600	2640	180	792
36	HDP036	0.641	16.3	205	305	9.6	24.4	6.4	16.3	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)			
Multimode - Bend Insensitive							1 GbE	10 GbE	40 GbE	100 GbE
OM1	CB3510/25	CB	62.5 μm	850/1300	3.5/1.0	200	300	33	N/A	N/A
OM3	EB3010/25	EB	50 μm	850/1300	3.0/1.0	2000	1000	300	100	70
OM4	FB3010/F5	FB	50 μm	850/1300	3.0/1.0	4700	1040	550	150	100
OM4+	XB3010/X5	XB	50 μm	850/1300	3.0/1.0	4900	1210	600	300	150
WideBand Multimode - Bend Insensitive							1 GbE	10 GbE	40 GbE	100 GbE
OM5	WB3010/W5	WB	50 μm	850-953/1300	3.0/1.0	4700	1040	550	190	100
Single-Mode - Bend Insensitive - ITU-T G.652.D and G.657.A1 Compliant							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

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
CB	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
XB	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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