

Berk-Tek Indoor Plenum High Density Distribution (ACP)

Berk-Tek's ACP design is an indoor-only loose tube cable. It supports the latest Gigabit Communications Protocols, including Gigabit Ethernet and ATM. The 3.0 mm tube diameter provides a convenient size for terminating with MPO connectors. By using furcation tubes, the cable can also be terminated with simplex style connectors, such as LC or SC.

DESCRIPTION

ACP cables are used where a compact cable is needed and terminations may be made in the field. The 3.0 mm diameter tube is the same size as our standard loose tube flame retardant cable (see Adventum), but the tube also contains aramid to provide additional strength to the termination. These cables have been thoroughly tested in accordance with Telcordia GR-409, ICEA-596, and ANSI/TIA-568.3.D standards where applicable.

Buffer Tube Construction

Color coded loose tubes containing up to 12, 250 µm, individually colored fibers and aramid yarn.

Applications

Berk-Tek's ACP, plenum rated fiber optic cable is intended for all high speed data applications, including:

- 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)

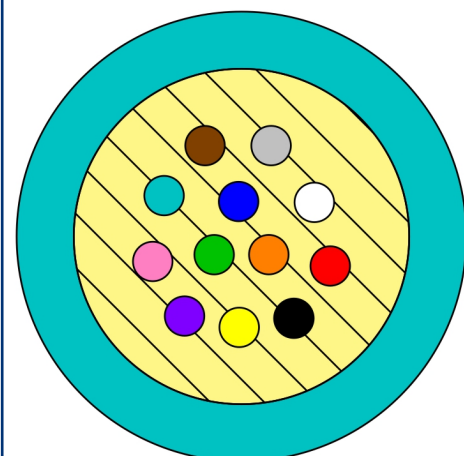
Features

- Designed to support Gigabit Ethernet, Gigabit ATM, Fibre Channel and other high-speed applications
- Plenum rating enables installation in plenum spaces
- All dielectric design

Benefits

- Compact, plenum rated, flexible loose tube design of all dielectric construction allows for installation in small interior spaces
- Aramid yarn provide stronger terminations

Country of Origin: U.S.A.



STANDARDS

International EN 50173;
ISO/IEC 11801

National ANSI/ICEA S-83-596;
ANSI/TIA-568.3-D; NFPA 130;
Telcordia GR-409

CHARACTERISTICS

Construction characteristics

Type of cable
Jacket Material

Loose tube
Plenum

Berk-Tek Indoor Plenum High Density Distribution (ACP)



Usage characteristics

RoHS compliant

Yes

STANDARD SHEATH COLORS - LOOSE TUBE

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	0.4 dB/km	0.3 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

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
12	ACP012	0.118	3.0	6	8	1.8	4.5	1.2	3.0	50	222	15	67
12	ACP012-2J	0.260	6.6	33	49	3.9	9.9	2.6	6.6	100	445	30	133

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	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
WideBand Multimode - Bend Insensitive							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 Insensitive - ITU-T G.657.A1							1 GbE	10 GbE	40 GbE	100 GbE
OS2	AB0403	Standard for Loose Tube	SMF	1310/1550	0.4/0.3	N/A	≥ 5000	≥ 10000	≥ 10000	≥ 10000

MANUFACTURING RELEASE

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