

Contact

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Interconnect Plenum Cabling

2 x OM1 Interconnect Plenum Round Cable

Part Number: ICP002CB3510/25

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

Description

Berk-Tek's Plenum Interconnect Tight Buffered cables are available with standard multimode, single-mode, and GIGALite™ optical fibers.

Construction

900 um buffered fibers surrounded by aramid yarns. Sheathed using a special state-of-the-art, polymer material.

All Dielectric. OFNP FT-6

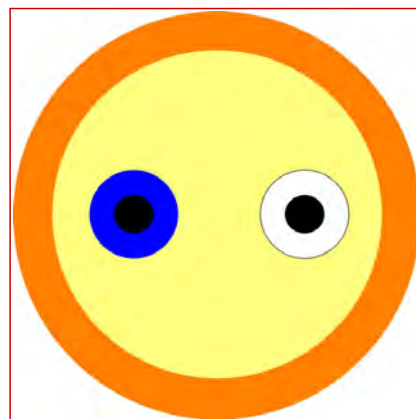
Applications

Berk-Tek's Interconnect Tight Buffered Cable is intended for all high speed data applications including:

- 10BASE-FL
- 100BASE-SX/100BASE-FX
- ATM 155/ATM 622
- 1000BASE-SX/1000BASE-LX
- Fibre Channel 1.062/2.125
- 10GBASE-SR/SW
- 10GBASE-LX4
- 40/100 GbE

Features

- Flexible, small diameter, 900 um tight buffered construction
- High tensile strength and small diameter design
- 1 through 4 fiber designs for patch cable and horizontal installations



Standards

International EN 50173; ISO/IEC 11801

National ANSI/ICEA S-83-596; ANSI/TIA-568-C.3; Telcordia GR-409

Characteristics

Construction characteristics	
Fiber optic type	OM1 62.5/125
Type of cable	Tight Buffered (TB)
Jacket Material	Plenum
Sheath colour	Orange
Dimensional characteristics	
Tube diameter	4.3 mm
Number of optical fibres	2

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Dimensional characteristics	
Cable diameter (Nominal)	0.17 in
Nominal outer diameter	4.3 mm
Nominal cable weight	12 lb/kft
Approximate weight	18 kg/km
Transmission characteristics	
Optical performance	CB (62.5/125 Standard, OM1)
Attenuation, max. 850 nm (cabled)	3.5 dB/km
Attenuation, max. 1300 nm (cabled)	1.0 dB/km
Mechanical characteristics	
Maximum installation tension	100 lb
Maximum installation tension	445 N
Max. Load. Long Term (lbs)	30.0 lb
Max. Load. Long Term	133.0 N
Impacts per TIA/EIA FOTP-25	2 at 1.47 N-m
Crush resistance per TIA/EIA FOTP-41	110 N/cm
Cable flexibility per TIA/EIA FOTP-104	100 cycles
Usage characteristics	
Minimum Bending Radius - Install	2.6 in
Minimum Bend Radius - Install	6.5 cm
Minimum Bending Radius - LongTerm	1.7 in
Minimum Bending Radius - LongTerm	4.3 cm
Operating temperature, range	-20 .. 75 °C
Ambient installation temperature, range	0 .. 70 °C
Storage temperature, range	-40 .. 85 °C
Field of application	Indoor

Standard Sheath Colors

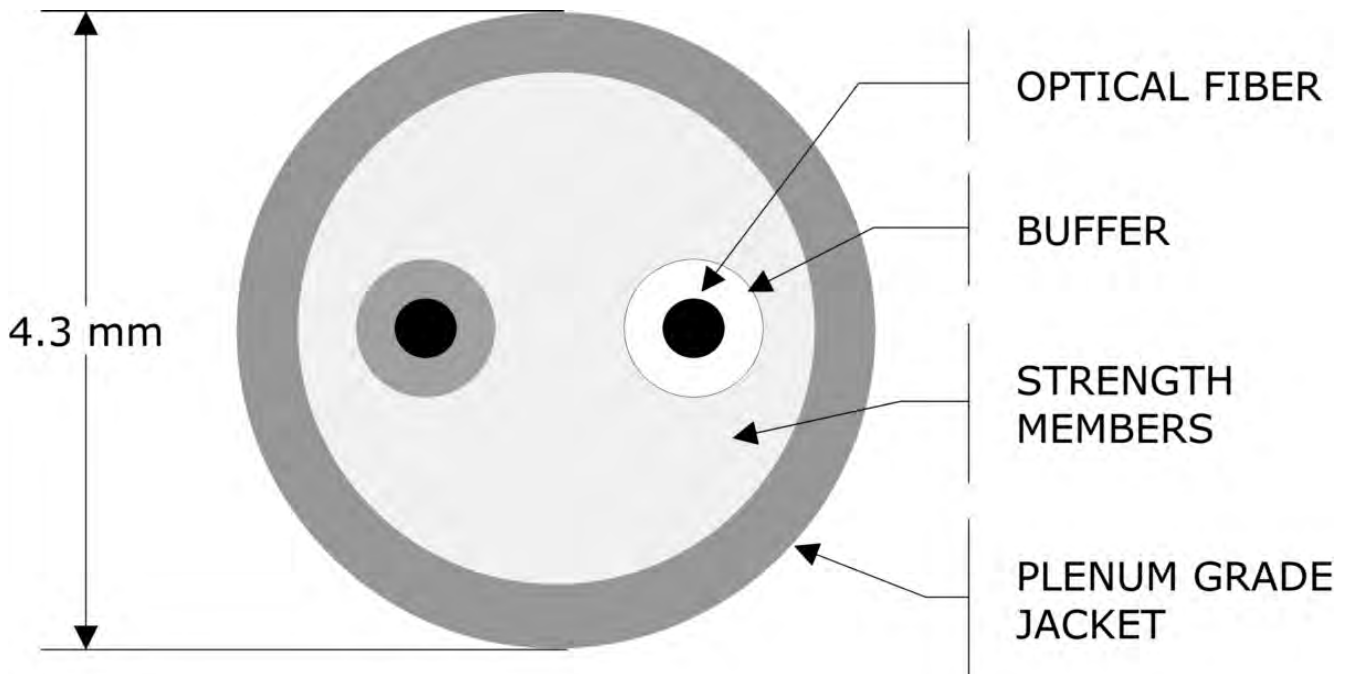
Fiber Type	Core Size (um)	ISO-TIA Standard	Effective Modal BW @ 850 nm	Overfilled Launch BW @ 850 nm	Attenuation @ 850 nm	Attenuation @ 1300 nm	Attenuation @ 1550 nm	Sheath Color
AB	8.3	OS2	NS	NS	NS	0.7 dB/km	0.7 dB/km	Yellow
CB	62.5	OM1	200 MHz-km	200 MHz-km	3.5 dB/km	1.0 dB/km	NS	Orange
GB	62.5	OM1+	500 MHz-km	350 MHz-km	3.5 dB/km	1.0 dB/km	NS	Orange
ZB	50	OM2	500 MHz-km	500 MHz-km	3.5 dB/km	1.5 dB/km	NS	Orange
LB	50	OM2+	950 MHz-km	700 MHz-km	3.0 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	Aqua

NS = Not Specified

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Cross-section Diagram - ICP002



Manufacturing Release

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