

## Interconnect Plenum Cabling

2 x OM3 Interconnect Plenum Round Cable

Part Number: ICP002EB3010/25

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

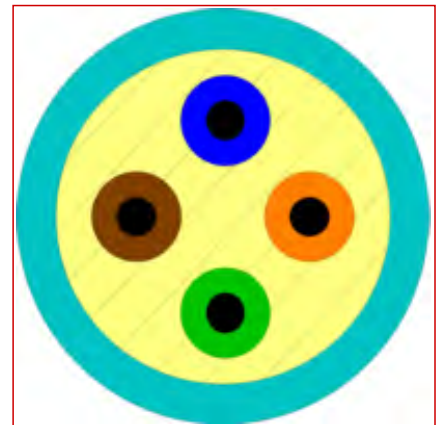
### Applications

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	OM3 50/125
Type of cable	Tight Buffered (TB)
Outer sheath	Plenum
Sheath colour	Aqua
Dimensional characteristics	
Tube diameter	4.3 mm
Number of optical fibres	2

## Interconnect Plenum Cabling

2 x OM3 Interconnect Plenum Round Cable

Dimensional characteristics	
Nominal outer diameter	0.17 in
Nominal outer diameter	4.3 mm
Approximate weight	12 lb/kft
Approximate weight	18 kg/km
Transmission characteristics	
Optical performance	EB (50/125 GIGAlite-10, OM3)
Attenuation, max. 850 nm (cabled)	3.0 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

## Interconnect Plenum Cabling

2 x OM3 Interconnect Plenum Round Cable

### Manufacturing Release

IMPORTANT NOTICE: This product specification is provided for informational purposes only in order to illustrate typical product constructions, applications and/or methods of installation. Because conditions of actual installation and use are unique and will vary, Berk-Tek makes no representation or warranty as to the reliability, accuracy or completeness of this data, even if Berk-Tek is aware of the product's intended use or purpose. Furthermore, this data does not constitute, nor should it be regarded or relied upon, as professional engineering advice. Installation of cable should only be done by qualified personnel and in conformance with all safety, electrical and other applicable codes, standards, rules or regulations. Appropriate and correct product selection, installation and use, and compliance with all such codes, standards, rules and regulations, is a customer/end-user responsibility. Product specifications, standards, programs or services are subject to improvement or changes without notice. Berk-Tek accepts no liability for typographical errors, technical inaccuracies, omissions or misuse of the information contained herein. Changes will be periodically made to address any such issues.