

Tight Buffer

www.TheLightConnection.com

Features and Benefits

- 3 sizes (900um, 800um, and 650um) available
- Compatible with existing tooling and fits a vast array of connectors

Description

The Light Connection, Inc. tight buffer is composed of an optical fiber and a PVC outer jacket. All component materials meet the EU RoHS and REACH Directive standards.

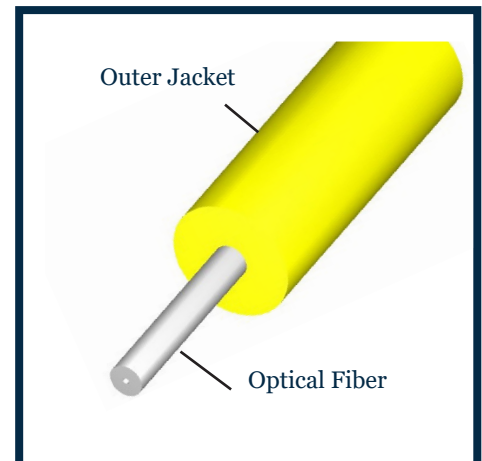
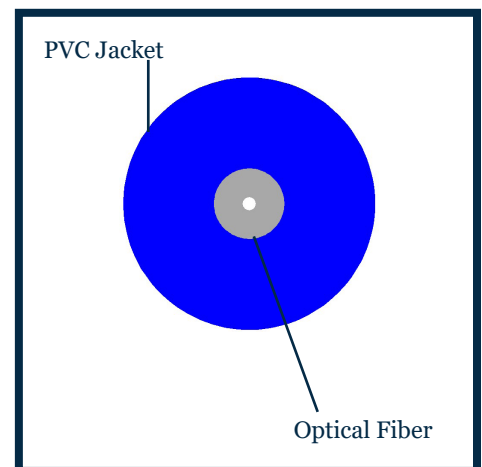
TLC tight buffer is available with two PVC jacket options, (U/P), the P-buffer has a higher concentration of flame retardants in the jacket compound. Tight buffer is available in 12 TIA standard colors or special order colors.

Application

Data centers
Testing environments
Launch (pulse) boxes
Patchcords

Flame Rating

None



SPECIFICATIONS

Temperature Range

Storage Temperature	-40 C to +70 C
Operating Temperature	0 C to +70 C

Cable Characteristics

Fiber Count	1
Outer Jacket Material	Flame Retardant PVC
Outer Jacket Color	Available in 12 TIA/EIA color standard

Physical Characteristics

Physical Characteristics	Value
Nominal Outer Diameter (mm)	0.900 / 0.800 / 0.650
Weight (lbs/km)	2.2/ 2.0/ 1.1
Minimum Bend Radius (mm) (Bend Insensitive SM)	10
Minimum Bend Radius (mm) (Bend Insensitive MM)	7.5

Optical Characteristics

Items	Single Mode	OM1	OM2	OM3	OM4 (OM4+)	OM5 (WB MMF)
Core Size [μm]	9	62.5	50	50	50	50
Wavelength [nm]	1310/1550	850/1300	850/1300	850/1300	850/1300	850/1300
Max. Attenuation[dB/km]	0.5/ 0.4	3.5 / 1.5	3.5 / 1.5	3.0 / 1.0	3.0 / 1.0	3.0 / 1.0
Link Length[m]	10,000/5,000 (1/10Gb/s@1550nm)	300 (1Gb/s@850nm)	150 (10Gb/s@850nm)	300 (10Gb/s@850nm)	550(600) (10Gb/s@850nm)	550 (10Gb/s@850nm)
Bandwidth (EMB High Performance)[MHz.km]	–	220 @850	750@850	2,000 @850	4,700 @850	4,700@850

Part Numbers

Size	Single Mode	OM1	OM2-OM5
900μm	So9TB01**N(U/P)+	M62TB01**N(U/P)+	M50TB01**N(U/P)+
800μm	So9TB01**N(U/P)+800	M62TB01**N(U/P)+800	M50TB01**N(U/P)+800
650μm	So9TB01**N(U/P)+650	M62TB01**N(U/P)+650	M50TB01**N(U/P)+650

+	B	O	G	BR
	S	W	R	BL
	Y	P	PK	A

Fiber Type (9/125) **

SMF-28 Ultra	CZ
ClearCurve LBL	C7
ClearCurve ZBL	CC

Fiber Type (50/125) **

ClearCurve OM2	C2
Clear Curve OM3	CG
ClearCurve OM4	C4
ClearCurve OM5	C5

Fiber Type (62.5/125) **

InfiniCor 300	C3
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