

# Tight Buffer



## Features and Benefits

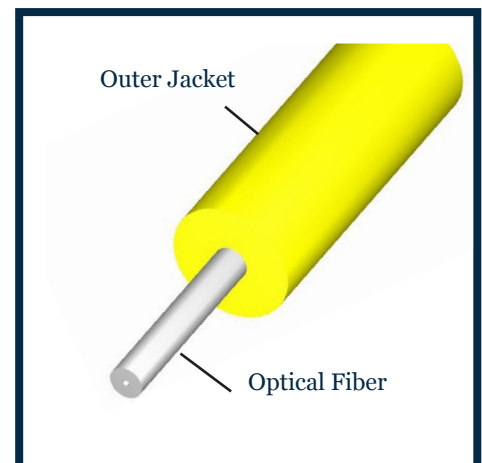
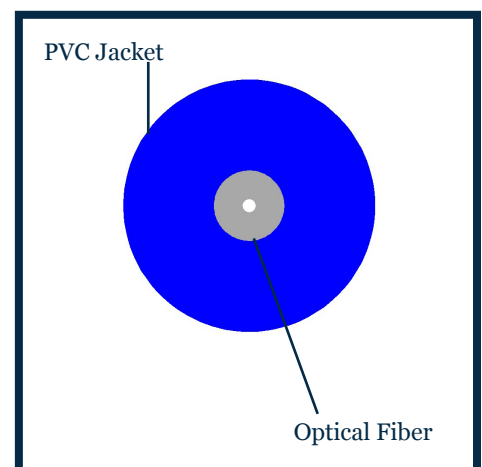
- 3 sizes (900um, 800um, and 650um) available
- Consistent 3.5 – 5 lbs-f for stripping ease
- Compatible with existing tooling and fits a vast array of connectors

## Description

The Light Connection's 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
Core Size	9 um	62.5 um	50 um	50 um	50 um
Wavelength	(1310/ 1550) nm	(850/ 1300) nm	(850/ 1300) nm	(850/ 1300) nm	(850/ 1300) nm
Max. Attenuation	(0.5/ 0.4) dB/ km	(3.5/ 1.5) dB/ km	(3.5/ 1.5) dB/ km	(3.5/ 1.5) dB/ km	(3.5/ 1.5) dB/ km
Bandwidth (EMB) (High Performance)	-	220 MHz @850nm	850 MHz @850nm	2000 MHz @850nm	4700 MHz @850nm
Link Length (10Gb/ s)	-	-	150 mtr	300 mtr	550 mtr

## Part Numbers

Size	Single Mode	OM1	OM2	OM3	OM4
0.900mm	S09TB01**N(U/P)+	M62TB01**N(U/P)+	M50TB01**N(U/P)+	M50TB01**N(U/P)+	M50SX01**N(U/P)+
0.800mm	S09TB01**N(U/P)+800	M62TB01**N(U/P)+800	M50TB01**N(U/P)+800	M50TB01**N(U/P)+800	M50SX01**N(U/P)+800
0.650mm	S09TB01**N(U/P)+650	M62TB01**N(U/P)+650	M50TB01**N(U/P)+650	M50TB01**N(U/P)+650	M50SX01**N(U/P)+650

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

### Fiber Type (9/125) \*\*

SMF-28 Ultra	CZ
SMF28e+	C
ClearCurve XB	CB
ClearCurve LBL	C7
ClearCurve ZBL	CC

### Fiber Type (50/125) \*\*

ClearCurve OM2	C2
Clear Curve OM3	CG
ClearCurve OM4	C4

### Fiber Type (62.5/125) \*\*

InfiniCor 300	C3
InfiniCor 1000	C1



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132 Base Road  
Oriskany, NY, 13424  
Phone: 315-736-7384  
Fax: 315-736-1927  
Toll free: 1-888-571-7111  
sales@thelightconnection.com  
www.thelightconnection.com