

LASER ENHANCED GIGABIT FIBERS & CABLES

TLC 10 Gigabit Cables are designed with Corning® InfiniCor® laser-optimized™ optical fibers. These fibers are guaranteed for transmission distances in 10 gigabit ethernet of up to 550 meters in compliant systems (IEEE 802.3ae) and can operate at significantly greater distances at slower protocols. See the charts below.

TLC offers InfiniCor® fiber in all standard configurations including 1.6mm, 1.8mm, 2.0mm, and 3.0mm Simplex and Duplex jackets, Distribution Cable, Indoor/Outdoor Cable, Ribbon Cable, and all other special constructions.

All Bandwidth measurements are standards compliant	EMB ⁽¹⁾ (MHz.km)	EMB ⁽²⁾ (MHz.km)	EMB ⁽³⁾ (MHz.km)	1Gb/s Link Length	10Gb/s Link Length
Wavelength	850 nm	850 nm	850nm/1300nm	850 nm	850 nm

50/125µm Multimode Fiber

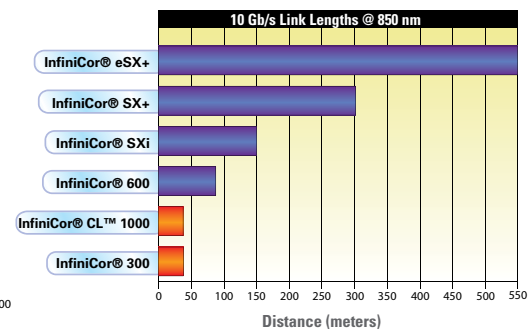
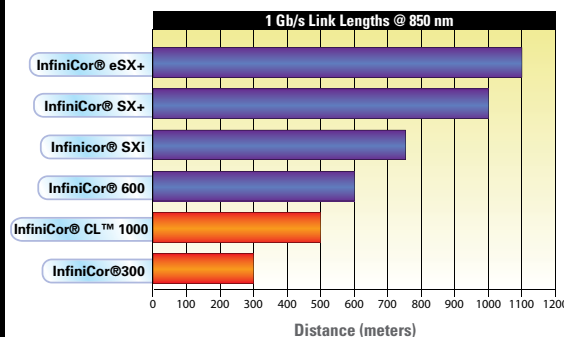
InfiniCor® eSX+ Multimode Fiber	4,700	-	3500/500	1,100 meters ^(4,6,7)	550 meters ^(4,7,8)
InfiniCor® SX+ Multimode Fiber	2,000	-	1500/500	1,000 meters ^(4,7)	300 meters ⁽⁴⁾
InfiniCor® SX Multimode Fiber	850	-	700/500	750 meters ⁽⁴⁾	150 meters ⁽⁴⁾
InfiniCor® 600 Multimode Fiber	510	-	500/500	600 meters ⁽⁴⁾	82 meters ⁽⁵⁾

62.5/125µm Multimode Fiber

InfiniCor® CL™ 1000 Multimode Fiber	-	385	200/500	500 meters ⁽⁴⁾	33 meters ⁽⁵⁾
InfiniCor® 300 Multimode Fiber	-	220	200/500	300 meters ⁽⁴⁾	33 meters ⁽⁵⁾

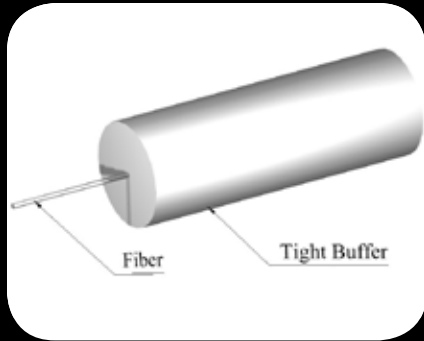


- (1) Ensured by minEMBc, per TIA/EIA 455-220A and IEC 60793-1-49, for high-performance laser-based systems (up to 10 Gb/s)
- (2) Ensured by RML BW, per TIA/EIA 455-204 and IEC 60793-1-41, for intermediate performance laser-based systems (typically up to 1Gb/s)
- (3) Ensured by OFL BW, per TIA/EIA 455-204 and IEC 60793-1-41, for legacy LED-based systems (typically up to 100 Mb/s)
- (4) Corning specified values for systems installed in accordance with IEEE 802.3z (Gigabit Ethernet) and IEEE 802.3ae (10 Gigabit Ethernet)
- (5) Link Lengths as characterized in IEEE 802.3z (Gigabit Ethernet) and IEEE 802.3ae (10 Gigabit Ethernet)
- (6) System is attenuation limited at 1,000 meters; higher bandwidth does not increase 1Gb/s link length capability
- (7) Specified link length requires cable attenuation ≤ 3.0 dB/km and total connector loss of ≤ 1.0 dB
- (8) Additional link lengths available upon request



TIGHT BUFFER FIBER OPTIC CABLE

Tight Buffered PVC Fiber is the key ingredient in almost every product sold at TLC, and as a result, we pay attention to its details. TLC buffers are preferred in production environments due to the ease and consistency of stripping. The variety of sizes available match existing tooling and fits today's growing variety of connectors. Available in three sizes, 900µm, 800µm, and 650µm.



PRODUCT SPECIFICATIONS

Size Tolerance ± 50µm
 Storage Temp. -40/+85°C
 Operating Temp. -20/+85°C

Part #	Jacket Material	Fiber Count	Diameter mm	Weight lbs/km	Bend Radius Install/Operate(cm)
M50TB01C6NPO	Plenum, Orange, RoHS	1	900	1.97	5.0 / 3.0
M62TB01C6NPO	Plenum, Orange, RoHS	1	900	1.97	5.0 / 3.0
S09TB01C6NPW	Plenum, White, RoHS	1	900	1.97	5.0 / 3.0
M50TB01C3NP0800	Plenum, Orange, RoHS	1	800	1.97	5.0 / 3.0
M62TB01C3NP0800	Plenum, Orange, RoHS	1	800	1.97	5.0 / 3.0
S09TB01C3NPW800	Plenum, White, RoHS	1	800	1.97	5.0 / 3.0
M50TB01C6NP0650	Plenum, Orange, RoHS	1	650	1.97	5.0 / 3.0
M62TB01C3NP0650	Plenum, Orange, RoHS	1	650	1.97	5.0 / 3.0
S09TB01C3NPW650	Plenum, White, RoHS	1	650	1.97	5.0 / 3.0

OPTICAL CHARACTERISTICS

TLC Prefix	Core/Clad	Mode	NA	Typ. Atten. (dB/km)	Max. Atten. (dB/km)	Min. LED Bandwidth (MHz/km)	Corning® Optical Fiber Type
M50	50/125	Multimode	.200	3.0 / 1.0	3.5 / 1.5	500/500 700/500 1500/500 1500/500	InfiniCor® 600 InfiniCor® SXi InfiniCor® SX+ InfiniCor® eSX+
M62	62.5/125	Multimode	.275	3.0 / 1.0	3.75 / 1.5	200/500 200/500	InfiniCor® 300 InfiniCor® CL™1000
S09	9/125	Singlemode	.14	0.5 / 0.4	1.0 / 0.75		SMF-28e+®

ACCESSORIES:

6 OR 12 FIBER BREAKOUT KITS

Designed for use with 900um buffered fibers, TLC's Breakout Kit supplies you with a compact unit for connectorizing your distribution cables. Colored coded tubes make it unnecessary to label your connectors, saving you installation time, while also giving you a solid housing to protect your cable end.

2.0 AND 3.0 MM FURCATION TUBING

Available to accept 250um bare fiber, or 900um buffered, our furcation tubing is made to fit both your fiber and your connectors. Made in both a simplex and duplex zipcord, and stocked in all 12 colors.

