LightCrimp Plus Connectors

ST-Style   **SC Simplex**   **SC Duplex**   **LC Simplex**   Duplex Clip   **LC Duplex**
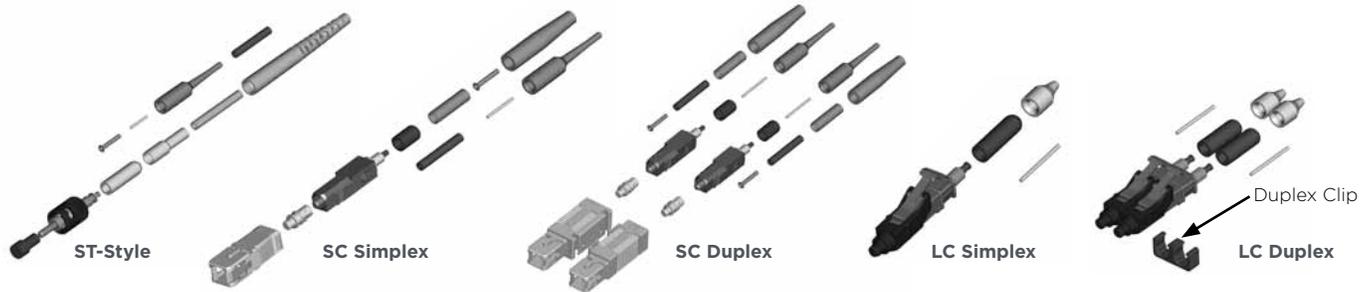
TE Connectivity's (TE) LightCrimp Plus optical fiber connectors are no-epoxy, no-polish connectors that make optical fiber terminations faster and easier with typical termination times of less than one minute. LightCrimp Plus connectors feature a factory-polished ferrule to allow fiber termination in three easy steps. Just strip the cable, cleave the fiber and crimp on the connector.

TE's LightCrimp Plus connectors are eligible for the TE 25-year Component and Systems Performance Warranties. LightCrimp Plus SC, ST and LC connectors are available in singlemode and multimode (62.5μm, 50μm and XG [850nm LO 50μm]) and in simplex and duplex versions. LightCrimp Plus XG connector technology exceeds the performance requirements of ANSI/TIA/EIA-568-C and ISO 11801.

SPECIFICATION (TEXT IN BRACKETS [ ] REQUIRES A CHOICE)

Optical fibers shall be terminated with TE's LightCrimp Plus, no-epoxy, no-polish connectors. Optical fiber connectors shall be [ST-Style, SC simplex, SC duplex, LC simplex or LC duplex], [multimode 50/125μm or 62.5/125μm (for ST-style) or multimode 50/125μm, XG (850nm LO 50/125μm), 62.5/125μm or single-mode]. The connector shall have a ceramic ferrule with factory-polished fiber stub and shall be field installable without requiring epoxy, or polishing. The connector shall meet the performance requirements listed in the following table:

In addition the LightCrimp Plus connector shall meet the intermateability requirements of [ANSI/TIA/EIA-604-2 (for ST-style), ANSI/TIA/EIA-604-3 (for SC simplex or duplex) or ANSI/TIA/EIA-604-10 (for LC simplex or duplex)]. The optical fiber connector shall be TE part number [6754482-1, 6754483-X, 6754484-1, 6754485-X, 6693278-1, 6693276-1, 6588291-2, 6588292-2, 6278079-2, 6278080-2, 6278009-1, 6278082-X, 5492643-1, 5492642-2 (-X denotes fiber type, see part number table on page 2 for details)].

Performance Characteristics

Test Description	FOTP	Requirement (dB)	Results (dB)
Visual and Mechanical Inspection	13	TIA/EIA-604-3	Passed
Attenuation	34	≤ 0.75	0.28
Return Loss	107	≤ -20	- 30
Low Temperature (-10° C for 4 days)	188	≤ 0.3 change	0.05
Temperature Life (60° C for 14 days)	7	≤ 0.3 change	0.10
Humidity (90 to 95% @ 40° C for 4 days)	5	≤ 0.3 change	0.10

LightCrimp Plus Connectors

Technical Details

Intermateability Specifications –	ST-Style	SC (simplex and duplex)	LC (simplex and duplex)
	TIA/EIA-604-2 (FOCIS 2)	TIA/EIA-604-3 (FOCIS 3)	TIA/EIA-604-10 (FOCIS 10)

Materials –		
Ferrule:	Ceramic	
Housing, ST-Style:	Aluminum	
Housing, SC and LC:	Thermoplastic	
Plug Body:	Thermoplastic	
Duplex Clip, LC:	Thermoplastic	

ORDERING INFORMATION

Connector Type			Housing/Boot Color	Included Boot Type(s)	Catalog Number
SC	Simplex	Singlemode	Blue/Black	See NOTE[1]	6693276-1
		50/125µm Multimode	Beige/Beige	See NOTE[2]	6278079-2
		XG (850nm LO 50/125µm) MM	Beige/Aqua	See NOTE[2]	6588291-2
		62.5/125µm Multimode	Beige/Beige	See NOTE[2]	5492643-1
	Duplex	Singlemode	Blue/Black	See NOTE[1]	6693278-1
		50/125µm Multimode	Beige/Beige	See NOTE[2]	6278080-2
		XG (850nm LO 50/125µm) MM	Beige/Aqua	See NOTE[2]	6588292-2
		62.5/125µm Multimode	Beige/Beige	See NOTE[2]	6278009-1
ST-Style		Singlemode	Metallic/Black	See NOTE[2]	1828953-3
		50/125µm Multimode	Metallic/Black	See NOTE[2]	6278082-1
		62.5/125µm Multimode	Metallic/Black	See NOTE[2]	5492642-2
LC	Simplex	Singlemode	Blue/Black	See NOTE[2]	6754482-1
		50/125µm Multimode	Beige/Beige	See NOTE[3]	6754483-2
		XG (850nm LO 50/125µm) MM	Beige/Aqua	See NOTE[3]	6754483-3
		62.5/125µm Multimode	Beige/Beige	See NOTE[3]	6754483-1
	Duplex	Singlemode	Blue/Black	See NOTE[3]	6754484-1
		50/125µm Multimode	Beige/Beige	See NOTE[3]	6754485-2
		XG (850nm LO 50/125µm) MM	Beige/Aqua	See NOTE[3]	6754485-3
		62.5/125µm Multimode	Beige/Beige	See NOTE[3]	6754485-1
Duplex Clip, 6 per pack			Black	–	1754371-3

NOTE[1] – Boots for use with Unjacketed 900µm tight buffered fiber, 900µm 'easy strip' or semi-tight buffered fiber, 900µm breakout kits, and 250µm coated fiber.

NOTE[2] – Boots for use with jacketed, 3.0mm and unjacketed 900µm tight buffered and 250µm coated fiber.

NOTE[3] – Boots for use with unjacketed 900µm tight buffered fiber.

Note: Simplex versions of the SC and LC are recommended for field installation. The use of duplex connectors is recommended for patch cord assemblies in accordance with EIA/TIA-568-C and ISO 11801.

DATA SHEET

TE connectivity