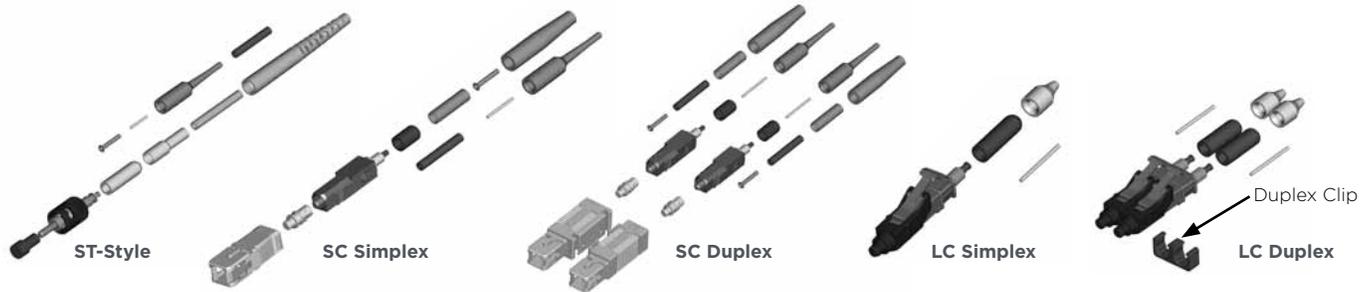


# LightCrimp Plus Connectors



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

	ST-Style	SC (simplex and duplex)	LC (simplex and duplex)
<b>Intermateability Specifications -</b>	TIA/EIA-604-2 (FOCIS 2)	TIA/EIA-604-3 (FOCIS 3)	TIA/EIA-604-10 (FOCIS 10)
	Ferrule:	Ceramic	
	Housing, ST-Style:	Aluminum	
<b>Materials -</b>	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 <sup>1</sup>	6693276-1	
		50/125µm Multimode	Beige/Beige	See NOTE <sup>2</sup>	6278079-2	
		XG (850nm LO 50/125µm) MM	Beige/Aqua	See NOTE <sup>2</sup>	6588291-2	
		62.5/125µm Multimode	Beige/Beige	See NOTE <sup>2</sup>	5492643-1	
	Duplex	Singlemode	Blue/Black	See NOTE <sup>1</sup>	6693278-1	
		50/125µm Multimode	Beige/Beige	See NOTE <sup>2</sup>	6278080-2	
		XG (850nm LO 50/125µm) MM	Beige/Aqua	See NOTE <sup>2</sup>	6588292-2	
ST-Style	Singlemode	Metallic/Black	See NOTE <sup>2</sup>	1828953-3		
	50/125µm Multimode	Metallic/Black	See NOTE <sup>2</sup>	6278082-1		
	62.5/125µm Multimode	Metallic/Black	See NOTE <sup>2</sup>	5492642-2		
LC	Simplex	Singlemode	Blue/Black	See NOTE <sup>2</sup>	6754482-1	
		50/125µm Multimode	Beige/Beige	See NOTE <sup>3</sup>	6754483-2	
		XG (850nm LO 50/125µm) MM	Beige/Aqua	See NOTE <sup>3</sup>	6754483-3	
		62.5/125µm Multimode	Beige/Beige	See NOTE <sup>3</sup>	6754483-1	
	Duplex	Singlemode	Blue/Black	See NOTE <sup>3</sup>	6754484-1	
		50/125µm Multimode	Beige/Beige	See NOTE <sup>3</sup>	6754485-2	
		XG (850nm LO 50/125µm) MM	Beige/Aqua	See NOTE <sup>3</sup>	6754485-3	
		62.5/125µm Multimode	Beige/Beige	See NOTE <sup>3</sup>	6754485-1	
	Duplex Clip, 6 per pack		Black	-		1754371-3

NOTE<sup>1</sup> - 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<sup>2</sup> - Boots for use with jacketed, 3.0mm and unjacketed 900µm tight buffered and 250µm coated fiber.

NOTE<sup>3</sup> - 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



**Contact us:**  
Greensboro, NC  
USA 27409-8420  
Tel: 1-800-553-0938  
Fax: 1-717-986-7406

[www.te.com/EnterpriseNetworks](http://www.te.com/EnterpriseNetworks)

TE Connectivity, TE connectivity (logo), Tyco Electronics, TE (logo), and LightCrimp Plus, are trademarks of the TE Connectivity Ltd. family of companies and its licensors.

While TE Connectivity has made every reasonable effort to ensure the accuracy of the information in this document, TE Connectivity does not guarantee that it is error-free, nor does TE Connectivity make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE Connectivity reserves the right to make any adjustments to the information contained herein at any time without notice. TE Connectivity expressly disclaims all implied warranties regarding the information contained herein, including, but not limited to, any implied warranties of merchantability or fitness for a particular purpose. The dimensions in this document are for reference purposes only and are subject to change without notice. Specifications are subject to change without notice. Consult TE Connectivity for the latest dimensions and design specifications.

Tyco Electronics Corporation, a TE Connectivity Ltd. Company. All Rights Reserved.

316888AE 4/13 Original © 2013