

Navy CID Approved Epoxy Applied

Tight Jacketed LC Connectors

Product Facts

- Multimode or singlemode
- Simplex or duplex
- Tested using MIL-PRF-85045/16 2.0 mm cable
- LC Commercial Item Description (CID) interim approval by the Naval Surface Warfare Center, Dahlgren Division

Application

- In Flight Networks
- Shipboard Applications
- Aero Market

The Tight Jacket LC Connector is a robust design for rugged applications including but not limited to:

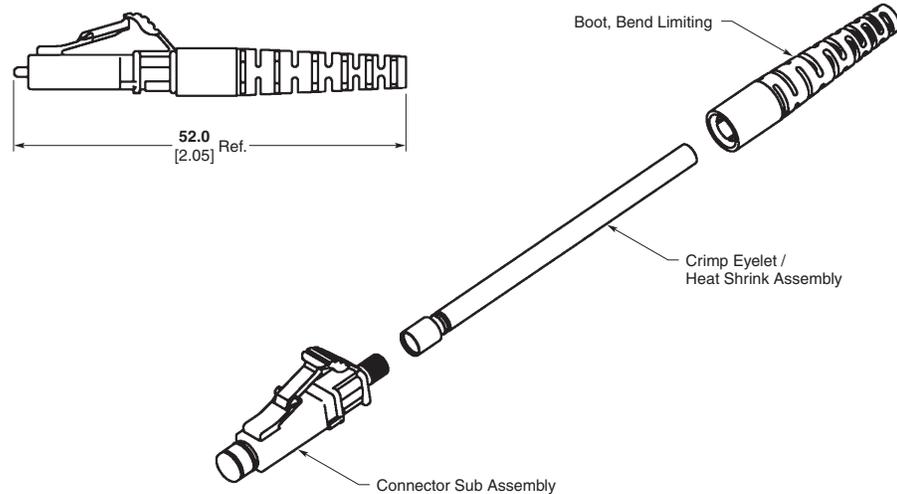
- Extreme temperatures -55°C to +110°C
- Excessive vibration or physical shock

Test reports available upon request.



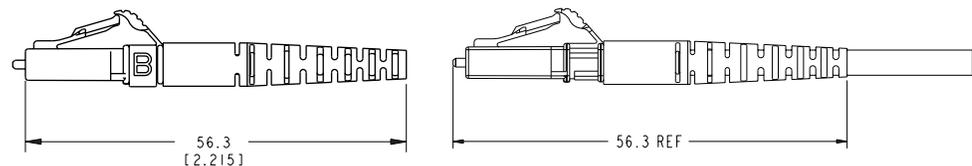
The tight jacketed LC Connectors are non pull-proof versions of the standard connectors that are designed for use with tight construction cable. Unlike

standard connectors, this design allows the jacket and buffer to move together, reducing the chances of micro-bends and fiber breakage.



Fiber Type	Kit Part Number	Description
Singlemode (blue body & straight boot)	6828095-X	Simplex, 1.6–2.0 mm
	6828130-X	Duplex, 1.6–2.0 mm
	1918228-X	Simplex, 2.4 mm
	2123524-X	Duplex, 1.6–2.0 mm, transceiver optimized
Multimode (beige body & straight boot)	6828094-X	Simplex, 1.6–2.0 mm
	6828129-X	Duplex, 1.6–2.0 mm
	1918153-X	Simplex, 2.4 mm
	2123265-X	Simplex, 2.4 mm, transceiver optimized

Note: X = -1 for individual package, -2 for bulk package.
 Instruction Sheet 408-10014. See <http://www.te.com/documents>.
 Duplex Clip Available (Part Number 1754371-1).



Note: All part numbers are RoHS compliant.

SC Connectors

Tight Jacketed SC Connectors

Product Facts

- Multimode or singlemode
- Simplex or duplex
- Tested using MIL-PRF-85045/16 2.0 mm cable
- SC Commercial Item Description (CID) interim approval by Naval Surface Warfare Center, Dahlgren Division

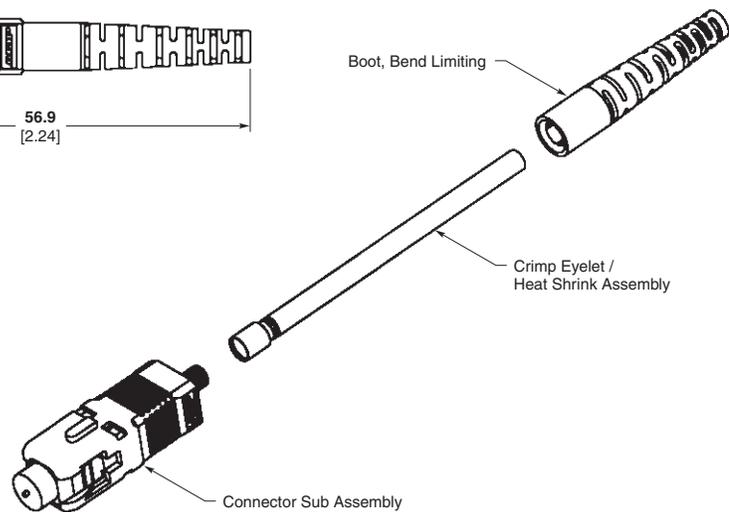
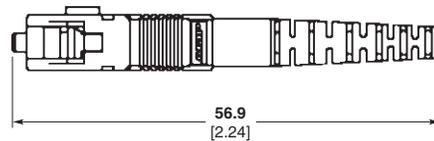
Application

- In Flight Networks
- Shipboard Applications
- Aero Market



The tight jacketed SC Connectors are non pull-proof versions of the standard connectors that are designed for use with tight construction cable. Unlike

standard connectors, this design allows the jacket and buffer to move together, reducing the chances of micro-bends and fiber breakage.



Tight Jacketed SC Connector Kits

Fiber Type	Kit Part Number	Description
Singlemode (blue body & straight boot)	6828100-X	Simplex, 1.6–2.0 mm
	1828573-X	Duplex, 1.6–2.0 mm
	1918227-X	Simplex, 2.4 mm
Multimode (beige body & straight boot)	6828099-X	Simplex, 1.6–2.0 mm
	1828574-X	Duplex, 1.6–2.0 mm
	1918154-X	Simplex, 2.4 mm

Note: X = -1 for individual package, -2 for bulk package. Instruction Sheet 408-10015. See <http://www.te.com/documents>.

Note: All part numbers are RoHS compliant.

LC Plus — Navy Approved

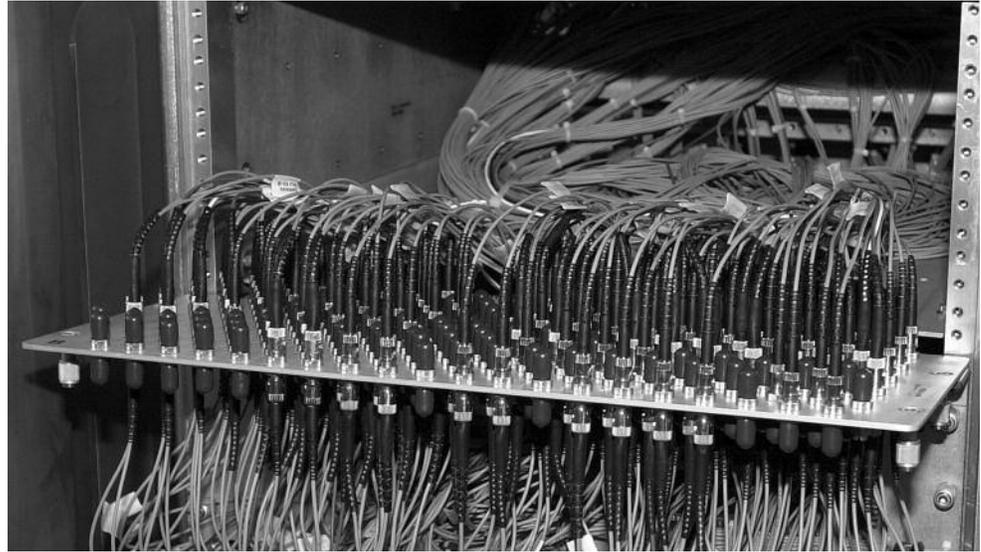
LC, SC and LightCrimp Plus ST Approved by U.S. Navy for Use On Board Ships

LightCrimp Plus ST Fiber Optic Connector Features and Benefits:

- LightCrimp Plus technology delivers the ability to terminate the fiber optic ST connector with mechanical tools by the ferrule being factory polished and terminated to the connector body
- The mechanical process enables a simple strip, clean, cleave crimp process that improves process time and eases the complexity of the installation

Termination Kits:

- The LightCrimp Plus MM ST part 2064757-1 has a dedicated termination kit, part number 2064764-1, suggested for its implementation. TE provides a wide variety of tools required to prepare and terminate LightCrimp Plus ST connectors.



Whether you're designing local area networks, communications systems or equipment, innovative fiber optic applications begin with innovative fiber optic products. TE Connectivity offers a complete line of fiber optic products to help your designs make light work for you.

TE's comprehensive fiber connector line delivers virtually all industry-standard connections, including LightCrimp Plus ST-Style and epoxy applied Tight Jacketed LC and SC and many others. They bring fiber to the desk at a cost that is competitive with copper.

LightCrimp Plus ST Fiber Optic Connectors

TE LightCrimp Plus ST-Style connectors are available in single or multimode configurations and can be crimped to the fiber. Any, they can install in under two minutes, without epoxy.

TE recently obtained approval from the U.S. Navy for its Multimode LightCrimp Plus ST Connector. This connector has been added to the "Navy Recommended Fiber Optic Components Parts List" located at <https://fiberoptics.nswc.navy.mil/>,

and is currently listed under the TE part number **(2064757-1)**. In addition, it is listed under the CID number A-A-59917. This approval is the latest in this series and joins the approved status of the LC and SC tight construction epoxy optic connectors listed on the components parts list.



LightCrimp Plus ST

* Commercial Item Description

LC Plus — Navy Approved (Continued)

**Combination
LIGHTCRIMP PLUS
SC/ST/LC Termination Kit
Part Number 1985162-1**



Note: All part numbers are RoHS compliant.

LightCrimp Splice

Product Facts

- Terminates 250 µm coated, 900 µm tight-buffered fibers and 2.0 mm jacketed cable
- Attenuation (typical): ≤ 0.1 dB
- Return Loss (at ambient; 18°–28° C):
 - ≥ 20 dB multimode
 - ≥ 35 dB single-mode
- Operating Temperature: -25 to 70° C
- Storage Temperature: -40 to 85° C
- Tensile retention:
 - 250 µm coated: 2.0 N
 - 900 µm buffered: 3.0 N
 - Jacketed: 50.0 N
- Fast, easy fiber splicing
- No epoxy required
- No set-up required
- No workstation required
- Ideal for low-fiber count cables
- Same LightCrimp Splice for single-mode and multimode 125 µm diameter fibers
- Kit includes rugged case



LightCrimp splices provide rugged, miniaturized form-factor that assures consistent crimp quality, dependability, and performance that rivals fusion splices. LightCrimp splices have been tested in accordance with IEC 61300 procedures, with an operating temperature range extending from -25° C to +70° C.

LightCrimp splices have been designed to meet TIA 568-C.3, IEC 61753 Cat U, and EN optical requirements.

LightCrimp splices provide the proven performance based on technology used to install more than one million LightCrimp Plus connectors.

Navy approved CID commercial item.
Description #A-A59917

Description	Part Number
LightCrimp Splice for 250 µm, 900 µm and 2.0 mm Jacketed Cable	1985368-1
LightCrimp Splice Termination Tool Kit	2064764-1



LightCrimp PLUS Kit Part Number 1985801-1

Capable of terminating:
In Line Mechanical Splice
Part Number 1985368-1
and LightCrimp PLUS
LC/SC

Part Numbers:

- 2123277-1 & -2 Simplex MM LC
- 2123278-1 & -2 Duplex MM LC
- 2123279-1 Simplex SM
- 2123280-1 Duplex SM

