

# LightCrimp PLUS Optical Fiber Tool

## Quick Termination Technology



**With LightCrimp PLUS optical fiber tool from TE Connectivity, you can terminate optical fibers for premises cabling and fiber-to-the-desk applications in less than a minute.**

LightCrimp PLUS uses proven best TE Connectivity crimp technology to make fiber optic terminations a quick, clean and simple mechanical process. Only a few tools, and in most circumstances, minimal training is required. With LightCrimp PLUS tool, you can terminate fibers without epoxy, polishing papers, ovens, UV lamps, or electrical power for field termination tooling.

### FEATURES AND BENEFITS

- Quick and easy fiber termination process
- Terminations take under a minute
- Easy termination procedure
- No polishing needed: simply strip and cleave the fiber, then crimp the connector
- Factory-polished to a consistent, high-quality end finish - ensures reliable physical contact and eliminates return loss concerns
- No need for epoxy, curing ovens or electricity
- LC, SC and ST-Style connectors
- No set-up required, ideal for low fiber count installs
- No workstation required
- Lowest applied labor costs
- Exceeds connectors performance requirements of ANSI/TIA-568-C.3
- Same tool kit for single-mode and multimode terminations
- No epoxy, no polish, no curing
- Three step termination: strip, cleave, crimp
- Easiest and quickest fiber termination available
- Ceramic ferrules
- Compliant with ANSI/TIA-568-C.3
- Factory polished for high consistency
- Little or no setup or tear-down time
- LC and SC Duplex clips join two simplex connectors creating one duplex connector
- Keyed secure LC configurations available

# LightCrimp Plus Optical Fiber Tool

## Quick Termination Technology

### AMP LightCrimp Plus Connectors

#### FEATURES

- Easiest and quickest fiber termination (less than one minute)
- Factory polished for consistent high quality and finish (no paper required)
- No epoxy, curing or UV-light required
- Available for ST-Style, SC and LC
- Complies with the relevant TIA/EIA, IEC, CECC und EN/IS standards
- Durability: 500 cycles



#### TECHNICAL DATA

- Ferrule: Ceramic
- Insertion loss typical (dB): 0.3 (MM/SM)
- Temperature range: -10°C to +60°C

#### INSTRUCTION SHEET LIGHTCRIMP PLUS

LightCrimp Plus LC; English; Part Number: 408-8925

LightCrimp Plus SC; English; Part Number: 408-4471

LightCrimp Plus ST-Style; English; Part Number: 408-4457

### LightCrimp Plus LC Connectors

#### FEATURES

- LC connector (simplex or duplex)
- Ceramic ferrule
- With pre-installed and pre-polished fiber



#### ORDERING INFORMATION

Description	Part Number
Simplex LC OS2 (1.6 to 2.0 mm Jacketed Cable); Housing: Blue; Boot: Blue; Packaging: 10	0-1918626-1
Simplex LC OM1 (1.6 to 2.0 mm Jacketed Cable); Housing: Beige; Boot: Beige; Packaging: 10	0-1918627-1
Simplex LC OM2 (1.6 to 2.0 mm Jacketed Cable); Housing: Beige; Boot: Black; Packaging: 10	0-1918627-2
Simplex LC OM3 XG/OM4 XG <sub>A</sub> (1.6 to 2.0 mm Jacketed Cable); Housing: Beige; Boot: Aqua; Packaging: 10	0-1918627-3
Simplex LC OS2 APC (250 μm + 900 μm only); Housing: green; Boot: blue; Packaging: 10	0-2064181-1
Simplex LC OS2 (250 μm + 900 μm only); Housing: blue; Boot: blue; Packaging: 10	0-6754482-1
Simplex LC OM1 (250 μm + 900 μm only); Housing: Beige; Boot: Beige; Packaging: 10	0-6754483-1
Simplex LC OM2 (250 μm + 900 μm only); Housing: Beige; Boot: black; Packaging: 10	0-6754483-2
Simplex LC OM3 XG/OM4 XG <sub>A</sub> (250 μm + 900 μm only); Housing: Beige; Boot: Aqua; Packaging: 10	0-6754483-4
Clip for making a Duplex LC out of 2 Simplex; black	0-1754371-2
Clip for making a Duplex LC out of 2 Simplex; blue	0-1754371-4
Clip for making a Duplex LC out of 2 Simplex; beige	0-1754371-5

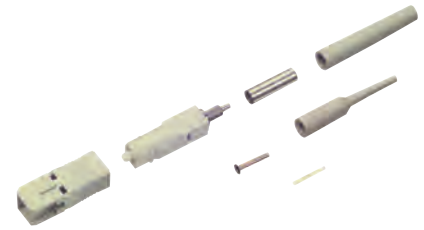
# LightCrimp Plus Optical Fiber Tool

Quick Termination Technology

## LightCrimp Plus SC Connectors

### FEATURES

- SC connector (simplex)
- Ceramic ferrule
- With pre-installed and pre-polished fiber



### ORDERING INFORMATION

Description	Part Number
Simplex SC OS2 APC; (250 μm + 900 μm only); Body: green; Boot: Blue; Packaging: 10	0-2064184-1
Simplex SC OM1 (250 μm + 900 μm + 3 mm jacketed cable); Body: Beige; Boot: Beige; Packaging: 10;	0-5492643-1
Simplex SC OM2 (250 μm + 900 μm + 3 mm jacketed cable); Body: Beige; Boot black; Packaging: 10;	0-6278079-2
Simplex SC OM3 XG/OM4 XG <sub>A</sub> 10 Gb/s (250 μm + 900 μm + 3 mm jacketed cable); Body: Beige; Boot: Aqua; Packaging: 10;	0-6588291-2
Simplex SC OS2 (250 μm + 900 μm + 3 mm jacketed cable); Body: blue; Boot: blue; Packaging: 10	0-6693276-1
Clips to connect two SC simplex connectors to one SC duplex connector (2 clips needed); black	0-6348522-1
Clips to connect two SC simplex connectors to one SC duplex connector (2 clips needed); green	0-6348522-2
Clips to connect two SC simplex connectors to one SC duplex connector (2 clips needed); blue	0-6348522-3
Clips to connect two SC simplex connectors to one SC duplex connector (2 clips needed); beige	0-6348522-4

## Termination Kits

### PRODUCT FACTS

- Termination tool kits come with a professional carrying pouch and are equipped with all the necessary tools required to terminate field installable connectors. See Termination and Adaptive Kit descriptions for kit contents.
- Adaptive tool kits come with a professional carrying pouch and contain all the tools specific to LightCrimp Plus connector terminations. See Termination and Adaptive Kit descriptions for kit contents.
- Adaptive Tool Kits are a cost-effective solution if common fiber and cable preparation tools are already available.
- All kits come with a LightCrimp Plus connector termination instruction sheet and instructional video CD-Rom.



Universal No-epoxy/No-polish Termination Kit

### ORDERING INFORMATION

Description	Part Number
<b>Universal No-epoxy/No-polish Termination Kit</b> (SC, ST-Style, LC, MT-RJ and MT-RJ SECURE Jacks) Includes premium carrying case, crimp tool, SC, ST-Style and LC die sets, all-in-one stripper tool, Micro-Strip tool, Kevlar shears, SC, ST-Style and LC cable holder, microscope 200x and cleave tool.	1278118-5

# LightCrimp Plus Optical Fiber Tool

Quick Termination Technology

## LightCrimp Plus Cable Holder

### FEATURES

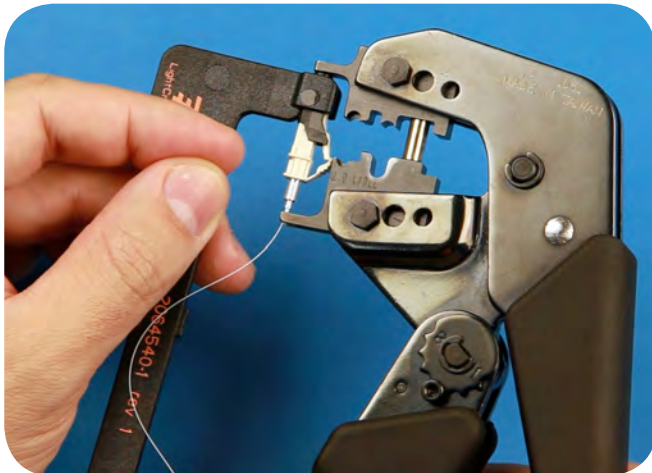
- Stripping template and cable holder for LightCrimp Plus terminations
- Included in the LightCrimp Plus tool kit

### ORDERING INFORMATION

Description	Part Number
LightCrimp splice cable holder	0-1985771-1
LC and SC	0-2064540-1
ST-Style	0-0492703-1



## LightCrimp Tool



# LightCrimp Plus Optical Fiber Tool

Quick Termination Technology

## Optical Fiber Inspection and Cleaning Kits

### FEATURES

- Densely woven micro-fiber cloth cleans fiber optic connector tips and reduces static charge
- Reel cleaners that work with FC, SC, ST and MT-RJ connectors, as well as PARA-OPTIX products
- Stick cleaners with perforated handles for customizing length and angle
- High resolution, 200x microscope to visual inspect connectors before mating



### ORDERING INFORMATION

Description	Part Number
<b>Optical Fiber and Cleaning Kit A</b>	
1x Visual Fault Locator (VFL) with 1.25 mm Adapter	
1x 200x Microscope with 2.5 mm Adapter	
1x 1.25 mm (LC) Microscope Adapter	
1x MT-RJ Microscope Adapter	
1x MPOA Microscope Adapter	
1x MPO Microscope Adapter	
1x Termination Training, CD-ROM	
5x 2.5 mm Stick Cleaners (10/Package)	
5x 1.25 mm Stick Cleaners (10/Package)	
1x One Slot Reel Cleaner	
1x MT-RJ w/pins Reel Cleaner	
1x SC in Bulkhead Cleaner (IBC)	
1x LC IBC	
1x MPO IBC	
1x Premium Hardcase	0-2064651-1
<b>Optical Fiber and Cleaning Kit B</b>	
1x Visual Fault Locator (VFL) with 1.25 mm Adapter	
1x 200x Microscope with 2.5 mm Adapter	
1x 1.25 mm (LC) Microscope Adapter	
1x MT-RJ Microscope Adapter	
1x Termination Training, CD-ROM	
5x 2.5 mm Stick Cleaners (10/Package)	
5x 1.25 mm Stick Cleaners (10/Package)	
1x One Slot Reel Cleaner	
1x MT-RJ w/pins Reel Cleaner	
1x SC in Bulkhead Cleaner (IBC)	
1x LC IBC	
1x Premium Hardcase	0-2064651-2
<b>Optical Fiber and Cleaning Kit C</b>	
1x Visual Fault Locator (VFL) with 1.25 mm Adapter	
1x 200x Microscope with 2.5 mm Adapter	
1x 1.25 mm (LC) Microscope Adapter	
1x Termination Training, CD-ROM	
5x 2.5 mm Stick Cleaners (10/Package)	
5x 1.25 mm Stick Cleaners (10/Package)	
1x One Slot Reel Cleaner	
1x SC in Bulkhead Cleaner (IBC)	
1x LC IBC	
1x Premium Hardcase	0-2064651-3

# LightCrimp Plus Optical Fiber Tool

Quick Termination Technology

## MPO/LC/SC/MT-RJ Cassette Cleaners

### ORDERING INFORMATION

Description	Part Number
MTP/MPO with pins; Packaging: 1	0-1918802-1
1 Slot Reel Cleaner for MPO/LC/SC and MT-RJ; Packaging: 1	0-1918803-1
MT-RJ with pins Reel Cleaner; Packaging: 1	0-1918804-1
2 Slot Reel Cleaner for LC and SC; Packaging: 1	0-1918805-1
Cleaner Refill; Packaging: 6 rolls	0-1918806-1



## MPO Coupler Cleaner

### ORDERING INFORMATION

Description	Part Number
MPO IBC; Packaging: 1	0-1918809-1



## Card Cleaner

### ORDERING INFORMATION

Description	Part Number
Card Cleaner; Packaging: 1	0-1918810-1
Card Cleaner Refill; Packaging: 100 sheets	0-1918811-1



## Cleaning Sticks for Single Fiber Couplers

### ORDERING INFORMATION

Description	Part Number
2.5 mm stick cleaner; Packaging: 25 x 10	0-1918807-1
1.25 mm stick cleaner; Packaging: 25 x 10	0-1918808-1



## LC/SC Bulkhead Cleaner

### ORDERING INFORMATION

Description	Part Number
SC IBC (In Bulkhead Cleaner)	0-2064499-1
LC IBC (In Bulkhead Cleaner)	0-2064500-1



# LightCrimp Plus Optical Fiber Tool

## Quick Termination Technology

### Inspection Microscope

#### FEATURES

- Optimal visual examination of terminated ends
  - 500  $\mu\text{m}$  field of view
  - Dual illumination
  - Coaxial for inspecting polish quality
  - Oblique for general conditions
  - Field and laboratory examination for multimode and singlemode fibers
  - Portable
  - Integral infrared filters for safety
  - Do NOT use any microscope to view active fiber signals
  - Disposable, Type LR44 batteries
  - Long-life LED (appr. 100,000 hours of operation)
- 
- Each kit contains:
    - 10x Power objective microscope with an impact resistant ergonomic rubber shell and high quality glass optics
    - 20x Power eyepiece
    - Padded carrying case with an integrated belt loop and internal adapter storage pocket
    - Neck lanyard with safety breakaway feature
    - Universal 2.5 mm ferrule adapter (for SC, ST and FC)



#### ORDERING INFORMATION

Description	Part Number
1.25 mm universal (LC and MU)	0-1754765-1
2.50 mm universal (SC, ST-Style and FC)	0-1754766-1
Inspection Microscope Kit	0-1754767-1
MT-RJ	0-1754768-1
SC/APC	0-1828833-1
MPO Microscope Adapter	0-1828836-1
MPOA Microscope Adapter	0-1828837-1
1.25 mm universal LC duplex adapter	0-2123273-1

# LightCrimp Plus Optical Fiber Tool

Quick Termination Technology

---

## Visual Fault Locator

### FEATURES

- 650  $\mu\text{m}$  (visible) Class 2 1.0 mW max. Diode Laser
- Continuous and flashing (2-3 Hz pulsed) modes
- Uses 1 "AA" style battery for >30 hours of continuous use
- Standard 2.5 mm adaptor for SC, ST, and FC connectors
- Optional 1.25 mm adaptor for LC and MU connectors

### ORDERING INFORMATION

Description	Part Number
Hand Held Visual Fault Locator incl. 2.5 mm adaptor	0-1828352-1
Hand Held Visual Fault Locator incl. 2.5 + 1.25 mm adaptor	0-1828352-2
Adaptor for Hand Held VFL 1.25 mm	0-1828353-1





# LightCrimp Plus Optical Fiber Tool

## Quick Termination Technology

### Optical Testing and Certification

Today testing of fiber optic links is more sensitive than ever. TE Connectivity test kits guarantee precise and replicable fiber testing. All kits contain connectors with controlled end faces and support testing with 3 jumper test method in accordance to ISO/IEC 14763-3.

#### FEATURES

- Each kit contains:
  - Test leads for simplex and duplex IL test
  - Test leads for CPR tests
  - Fiber coupling bushes
  - Two mandrels (MM only)
  - Cleaning aids
  - Instruction manual
  - Data sheet of end face geometry



Y- -X	Connector Type	Y- -X	Connector Type	Y- -X	Connector Type	Y- -X	Connector Type
0- -1	SC/PC to SC/PC	0- -6	ST/PC to SC/PC	1- -1	LC/PC to SC/PC	1- -6	FC/PC to SC/PC
0- -2	SC/PC to ST/PC	0- -7	ST/PC to ST/PC	1- -2	LC/PC to ST/PC	1- -7	FC/PC to ST/PC
0- -3	SC/PC to LC/PC	0- -8	ST/PC to LC/PC	1- -3	LC/PC to LC/PC	1- -8	FC/PC to LC/PC
0- -4	SC/PC to PC/PC	0- -9	ST/PC to PC/PC	1- -4	LC/PC to PC/PC	1- -9	FC/PC to PC/PC
0- -5	SC/PC to MT-RJ	1- -0	ST/PC to MT-RJ	1- -5	LC/PC to MT-RJ	2- -0	FC/PC to MT-RJ

#### ORDERING INFORMATION

Description	Part Number
OM2-OM3 and OM4 Launch Lead	Y-6695241-X
OM1 Launch Lead	Y-6695243-X
OS2 Launch Lead	Y-6695245-X

# LightCrimp PLUS Optical Fiber Connectors and Accessories

## Pre-polished Connectors

Since TE's AMP NETCONNECT LightCrimp PLUS connectors are factory polished, all you have to do is strip cable, prepare and cleave the fiber, and crimp the connector. There is no setup time required and you get a more consistent, high quality end-face finish. When compared to epoxy/hand polished connectors.

## LightCrimp PLUS Connectors Are Rugged

LightCrimp PLUS connectors offer consistent polish, crimp quality, and long term performance that's on par with standard epoxy style connectors.

LightCrimp PLUS connectors meet or exceed the relevant ANSI/TIA, IEC, and EN optical and mechanical specifications and operate in temperatures ranging from -10° to +60° C.

## Tool Kit Upgrades

The tooling used to crimp LightCrimp PLUS connectors can also be used with LightCrimp connectors. For existing users of LightCrimp or other, pre-polished connectors, TE offers upgrade tool kits to make the transition to LightCrimp PLUS connectors easier and more cost effective.



## Performance Characteristics

LightCrimp PLUS connectors have been tested per industry FOTPs (Fiber Optic Test Procedures) and meet or exceed all requirements in the *Connector Performance Specification Annex* of ANSI/TIA-568-C.

LightCrimp PLUS connectors utilize ceramic ferrules and yield terminations with typical Insertion Loss of 0.2 dB for single-mode, and 0.3 dB for multimode.



## DATA SHEET

**Contact us:**  
Suite 102 & 103, Level 1, Building B  
Gateway Business Park  
63 Parramatta Road  
Silverwater NSW 2128  
Ph: +61 2 8748 9500  
Fx: +61-2-9748 8487

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



TE Connectivity, TE connectivity (logo), Tyco Electronics, LightCrimp PLUS, AMP NETCONNECT, and TE (logo) 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.  
315052AU 12/10 Revision © 2012