COMMSCOPE®

LightCrimp Plus Optical Fiber Connectors & Accessories
System Overview

AMP NETCONNECT
Optical Fiber Terminations In Less Than a Minute

With AMP NETCONNECT LightCrimp Plus optical fiber connectors from CommScope you can terminate optical fibers for premises cabling and fiber-to-the-desk applications in less than a minute.

AMP NETCONNECT LightCrimp Plus optical fiber connectors use CommScope's crimp technology to make fiber optic terminations a quick, clean and simple mechanical process. Only a few tools, and in most circumstances, little training are required. With LightCrimp Plus optical fiber products, you can terminate fibers without epoxy, polishing papers, ovens, UV lamps, or electrical power for field termination tooling.
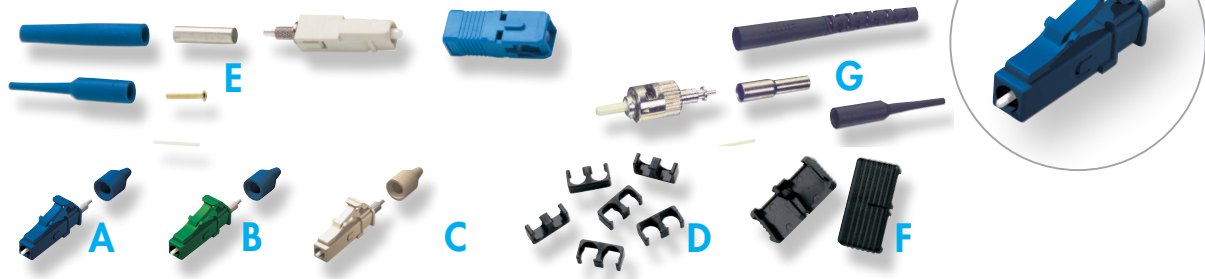
Convenient side latches allow you to remove module covers without removing the base from the mounting surface. This speeds MACs (Moves, Adds and Changes) without needing to unplug existing, active connections. For facilities requiring additional security in work areas and classroom environments, the cover can be screwed shut to prevent unauthorized access. Pre-scored knockouts allow compatibility with most surface mount raceway systems as well as modular furniture raceways.

Key Features

- 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

LightCrimp Plus Optical Fiber Connectors and Accessories

Surface Mount Modules and Accessories

Key Features

- 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

Connector Type	Fiber Type	Housing Color	Boot Color	For Use With	Figure	Part Numbers
LC Simplex	Single-mode, UPC	Blue	Blue	900 μm buffered and 250 μm coated fibers	A	6754482-1
				1.6 to 2.0 mm Jacketed Cable		1918626-1
	Single-mode, APC	Green	Blue	900 μm buffered and 250 μm coated fibers	B	2064181-1
	XG Multimode, 50 μm	Beige	Aqua	900 μm buffered and 250 μm coated fibers		6754483-4
				1.6 to 2.0 mm Jacketed Cable		1918627-3
	Multimode, 50 μm	Beige	Black	900 μm buffered and 250 μm coated fibers		6754483-2
				1.6 to 2.0 mm Jacketed Cable		1918627-2
	Multimode, 62.5 μm	Beige	Beige	900 μm buffered and 250 μm coated fibers	C	6754483-1
				1.6 to 2.0 mm Jacketed Cable		1918627-1
LC Duplex	Single-mode, UPC	Blue	Blue	900 μm buffered and 250 μm coated fibers		6754484-1
	XG Multimode, 50 μm	Beige	Aqua	900 μm buffered and 250 μm coated fibers		6754485-4
	Multimode, 50 μm	Beige	Black	900 μm buffered and 250 μm coated fibers		6754485-2
	Multimode, 62.5 μm	Beige	Beige	900 μm buffered and 250 μm coated fibers		6754485-1
Duplex Clip, LC		Black		Simplex LightCrimp Plus LC Connectors (6 clips per pack)	D	1754371-1
		Blue		Simplex LightCrimp Plus LC Connectors (6 clips per pack)		1754371-4
		Beige		Simplex LightCrimp Plus LC Connectors (6 clips per pack)		1754371-5
SC Simplex	Single-mode, UPC	Blue	Blue	900 μm buffered fibers, 250 μm coated fibers, and 3mm Jacketed Cable	E	6693276-1
	Single-mode, APC	Green	Blue	900 μm buffered and 250 μm coated fibers		2064184-1
	XG Multimode, 50 μm	Beige	Aqua	900 μm buffered fibers, 250 μm coated fibers, and 3mm Jacketed Cable		6588291-2
	Multimode, 50 μm	Beige	Black	900 μm buffered fibers, 250 μm coated fibers, and 3mm Jacketed Cable		6278079-2
	Multimode, 62.5 μm	Beige	Beige	900 μm buffered fibers, 250 μm coated fibers, and 3mm Jacketed Cable		5492643-1
SC Duplex	Single-mode, UPC	Blue	Blue	900 μm buffered fibers, 250 μm coated fibers, and 3mm Jacketed Cable		6693278-1
	XG Multimode, 50 μm	Beige	Aqua	900 μm buffered fibers, 250 μm coated fibers, and 3mm Jacketed Cable		6588292-2
	Multimode, 50 μm	Beige	Black	900 μm buffered fibers, 250 μm coated fibers, and 3mm Jacketed Cable		6278080-2
	Multimode, 62.5 μm	Beige	Beige	900 μm buffered fibers, 250 μm coated fibers, and 3mm Jacketed Cable		6278009-1
Duplex Clip, SC		Black		Simplex LightCrimp Plus SC Connectors (1 set per pack)	F	6348522-1
		Green		Simplex LightCrimp Plus SC Connectors (1 set per pack)		6348522-2
		Blue		Simplex LightCrimp Plus SC Connectors (1 set per pack)		6348522-3
		Beige		Simplex LightCrimp Plus SC Connectors (1 set per pack)		6348522-4
ST	Single-mode, UPC	Metallic	Black	900 μm buffered fibers, 250 μm coated fibers, and 3mm Jacketed Cable		1828953-3
	XG Multimode, 50 μm	Metallic	Aqua	900 μm buffered fibers, 250 μm coated fibers, and 3mm Jacketed Cable		6278082-2
	Multimode, 50 μm	Metallic	Black	900 μm buffered fibers, 250 μm coated fibers, and 3mm Jacketed Cable	G	6278082-1
	Multimode, 62.5 μm	Metallic	Beige	900 μm buffered fibers, 250 μm coated fibers, and 3mm Jacketed Cable		5492642-2

LightCrimp Plus Optical Fiber Connectors and Accessories

LightCrimp Plus Termination Tool Kits and Accessories

Description	Terminates:						Part Numbers
	LightCrimp Plus			LightCrimp		ALL MT-RJ	
	LC	SC	ST	SC	ST		
Universal No-epoxy/No-polish Termination Kit	X	X	X			X	1278118-4
LightCrimp Plus LC/SC Connector Termination Kit	X	X					1754845-1
LightCrimp Plus ST Connector Termination Kit			X				492697-1
Deluxe Premise Termination Kit	X	X	X	X	X	X	1278949-2
LightCrimp Plus Combination Adaptive Termination Kit	X	X	X				1754739-2
LightCrimp Plus LC/SC Adaptive Termination Kit	X	X					1754846-1
LightCrimp Plus ST Adaptive Termination Kit			X				1754738-1
LC Connector Upgrade Termination Kit	Adds functionality to terminate LightCrimp Plus LC Connectors To Other Adaptive Tool Kits						1754847-2

Key Features

- Adaptive tool kits are a cost-effective, upgradable solution, if common fiber and cable preparation tools are already available.

- Termination tool kits come with a high quality, soft carrying case and are equipped with all the necessary tools required to terminate the listed, field installable connectors.

- All kits come with LightCrimp Plus connector termination instructions and instructional CD-ROM. The CD-ROM is also available separately by requesting part number 1374503-1. Please contact your local sales engineer to request your copy, or call our customer service department at 800-553-0938.

Deluxe Premise
Termination Tool Kit

LightCrimp Plus Optical Fiber Connectors and Accessories

Description	Part Number	Kit Contents and Quantities							
		1278118-4	1754845-1	492697-1	1278949-2	1754739-2	1754846-1	1754738-1	1754847-2
Premium, soft shell, carrying case	1278540-1	1	1	1	1	1	1	1	
Strip tool, fiber combination	1754708-1	1	1	1	1	–	–	–	–
KEVLAR shears	1278637-1	1	1	1	1	–	–	–	–
Wrench, ¼ inch, open end	1278422-1	2	2	2	2	2	2	2	2
PRO-CRIMPER III Hand Tool	2064431-1	–	1	–	–	1	1	1	–
PRO-CRIMPER III Hand Tool with die set for LightCrimp Plus LC and SC Connectors	2064603-1	1	–	–	–	–	–	–	–
PROCRIMPER III Hand Tool with die set for LightCrimp Plus ST Connectors	492623-1	–	–	1	–	–	–	–	–
PROCRIMPER III Hand Tool with die set for LightCrimp and LightCrimp Plus SC Connectors	492782-1	–	–	–	1	–	–	–	–
LightCrimp Plus LC die set for PROCRIMPER III Hand Tool	1754136-1	–	–	–	1	–	–	–	1
LightCrimp Plus ST die set for PROCRIMPER III Hand Tool	492622-1	1	–	–	1	1	–	1	–
LightCrimp Plus LC and SC die set for PROCRIMPER III Hand Tool	1985766-1	–	1	–	–	1	1		
LightCrimp Plus SC die set for PROCRIMPER III Hand Tool	492783-1	–	–	–	1	–	–	–	–
LightCrimp Plus LC and SC cable/buffer holder	2064540-1	1	1	–	–	1	1	–	–
LightCrimp Plus LC cable/buffer holder	1754138-1	–	–	–	1	–	–	–	1
LightCrimp Plus SC cable/buffer holder	1278023-1	–	–	–	1	–	–	–	–
LightCrimp Plus ST cable/buffer holder	492703-1	1	–	1	1	1	–	1	–
Alcohol fiber wipe	501857-2	14	14	14	14	–	–	–	–
OPTIMATE cable stripper	501198-1	1	–	–	–	–	–	–	–
Micro-stripper, MT-RJ	492109-2	1	1	–	1	–	–	–	–
Actuation key, MT-RJ	1278576-1	2	–	–	2	–	–	–	–
Strip Template, MT-RJ	1278598-1	1	–	–	1	–	–	–	–
Label, termination kit	1374331-1	1	–	–	–	–	–	–	–
CD-ROM, termination training	1374503-1	1	1	1	1	1	1	1	–
Fiber Optics Cleaning and Inspection Guide	2064710-1	1	1	1	1	1	1	1	–
Ball end hex key (5)	1457999-1	1	–	–	1	–	–	–	–
Fiber cleaver, slide cutter	1871696-1	1	1	1	1	1	1	1	–
Cable Slitter, 2 mm	2064453-2	1	1	–	–	–	1	–	–
Cable Clamp	1278625-1	1	1	–	1	–	1	–	1
200x Microscope Kit	1754767-1	–	–	–	–	–	–	–	–
200x Microscope Adapter, MT-RJ	1754768-1	–	–	–	–	–	–	–	–
200x Microscope Adapter, 1.25 mm	1754765-1	–	–	–	–	–	–	–	–
LightCrimp Cleave Tool	503705-1	–	–	–	1	–	–	–	–
LightCrimp ST Strip Template	503574-1	–	–	–	1	–	–	–	–
LightCrimp SC Strip Template	503694-1	–	–	–	1	–	–	–	–
Polishing Plate, 8.5 x 11 inches	501197-1	–	–	–	1	–	–	–	–
Polishing Pad, Rectangular	504584-1	–	–	–	1	–	–	–	–
Polishing Pad, Circular	501523-1	–	–	–	1	–	–	–	–
Polishing Film, 0.3 µm	228433-5	–	–	–	10	–	–	–	–
Polishing Film, 0.5 µm	228433-8	–	–	–	10	–	–	–	–
LightCrimp ST Polishing Bushing, Black	503304-1	–	–	–	1	–	–	–	–
LightCrimp ST Polishing Bushing, Beige	503304-2	–	–	–	1	–	–	–	–
LightCrimp SC Polishing Bushing	502631-1	–	–	–	5	–	–	–	–
Scissors	501014-1	–	–	–	1	–	–	–	1

Pre-polished Connectors

Since 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, CommScope 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.

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