



CONNECTOR SOLUTIONS

FASTConnect® | FUSEConnect® | FUSEConnect® MPO



FASTConnect® Field Installable Connectors

FASTConnect are factory pre-polished, field installable connectors that completely eliminate the need for hand polishing in the field. Proven mechanical splice technology ensuring precision fiber alignment, a factory pre-cleaved fiber stub and a proprietary index-matching gel combine to offer an immediate low loss termination to either single-mode or multimode optical fibers.

FASTConnect are compatible with 250 µm and 900 µm optical fibers, as well as 2.0 mm, 3.0 mm and 4.8 mm (SC only) cordage. All primary fiber types are supported and each connector is color coded per industry-standard requirements to aide in identification during and after installation.

A factory-installed wedge clip (included with each connector) is removed and discarded upon completion of the termination. Incorporated into this device is an innovative, translucent wedge enabling the use of a common VFI to provide a “pass/fail” signal once physical contact is achieved.



FEATURES

- Pre-stubbed, factory polished ferrule
- No epoxy required
- Precision mechanical alignment ensures low loss
- Fiber can be resealed

APPLICATIONS

- Premise environments
- Connections at the desk for LAN environments
- Patch panels
- Direct equipment termination

SPECIFICATIONS

PARAMETERS	INSERTION LOSS		RETURN LOSS AT ROOM TEMPERATURE		OPERATING TEMPERATURE
	AVERAGE (DB)	MAXIMUM (DB)	AVERAGE (DB)	MAXIMUM (DB)	
SM UPC	0.2	0.5	≤ -50	≤ -45	-40 to +75°C
SM APC-AU*	0.3	0.6	≤ -55	≤ -50	-40 to +75°C
MM PC	0.1	0.5	≤ -25	≤ -20	-40 to +75°C

*AU denotes angled polish with a flat cleaved fiber

FASTConnect® Field Installable Connectors

ORDERING INFORMATION

For cable size: 900 µm*

CONNECTOR TYPE	QTY/PACK	AFL NO.				
		UPC SM (BLUE)	APC SM-AU (GREEN)	PC 62.5 µm MM (BEIGE)	PC 50 µm MM (BLACK)	PC 50 µm LOMMF (AQUA)
SC	6	FAST-SC-SM-6	FAST-SC-SMAU-6	FAST-SC-MM62.5-6	FAST-SC-MM50-6	FAST-SC-MM50L-6
	100	FAST-SC-SM-100	FAST-SC-SMAU-100	FAST-SC-MM62.5-100	FAST-SC-MM50-100	FAST-SC-MM50L-100
ST	6	FAST-ST-SM-6	N/A	FAST-ST-MM62.5-6	FAST-ST-MM50-6	FAST-ST-MM50L-6
	100	FAST-ST-SM-100	N/A	FAST-ST-MM62.5-100	FAST-ST-MM50-100	FAST-ST-MM50L-100
LC	6	FAST-LC-SM-6	N/A	FAST-LC-MM62.5-6	FAST-LC-MM50-6	FAST-LC-MM50L-6
	100	FAST-LC-SM-100	N/A	FAST-LC-MM62.5-100	FAST-LC-MM50-100	FAST-LC-MM50L-100

For cable size: 4.8 mm

SC	6	N/A	FAST-SC48-SMAU-6	N/A	N/A	N/A
	100	N/A	FAST-SC48-SMAU-100	N/A	N/A	N/A

- * Boot kits are available for 2.0 mm/3.0 mm Simplex cordage
- ** Requires FAST APC Tool Kit for installation
- *** AFL NO. is for one pack of 6 pieces
- **** Laser Optimized Multi-Mode Fiber (LOMMF) compatible with OM3 and OM4 fibers

Product Information



FUSEConnect® Fusion Spliced, Field Installable Connectors

Uniquely designed, the factory pre-polished ferrule eliminates the need for polishing, adhesives and crimping in the field, which minimizes the potential for operator error and expensive connector scrap.

FUSEConnect utilizes a fusion splicer to terminate the connector in the field, addressing return loss concerns present in analog optical networks. This advanced process yields true APC performance for SC/APC and LC/APC configurations. FUSEConnect are compatible with Fujikura fusion splicers and most other fiber-holder-based fusion splicing platforms.



FEATURES

- Field installable splice on connector
- No adhesives, crimping or polishing
- True APC performance
- Compatible with most fusion splicers

APPLICATIONS

- RF-overlay TFTP networks
- Cable TV backbone networks
- Outside plant
- FTTH (Desk)
- MDU FTTP cabling
- Data center installation
- Central office connector replacement

SPECIFICATIONS

PARAMETERS	INSERTION LOSS		RETURN LOSS	OPERATING TEMPERATURE
	AVERAGE (DB)	MAXIMUM (DB)		
SM UPC	0.15	0.25	≤ -55	-40 to +75°C
SM APC	0.15	0.25	≤ -65	-40 to +75°C
MM PC	0.10	0.25	≤ -35	-40 to +75°C

FUSEConnect® Fusion Spliced, Field Installable Connectors

ORDERING INFORMATION

CONNECTOR TYPE	BOOT TYPE	AFL NO. ***				
		UPC SM (Blue)	APC SM (Green)	PC 62.5 µm MM (Beige)	PC 50 µm MM (Black)	PC 50 µm LOMMF (AQUA) ****
SC	900 µm	FUSE-SC9SMU-6	FUSE-SC9SMA-6	FUSE-SC9M62-6	FUSE-SC9M50-6	FUSE-SC9M50L-6
	3 mm	FUSE-SC3SMU-6	FUSE-SC3SMA-6	FUSE-SC3M62-6	FUSE-SC3M50-6	FUSE-SC3M50L-6
	4.8 mm	FUSE-SC48SMU-6	FUSE-SC48SMA-6	—	—	—
LC	900 µm	FUSE-LC9SMU-6	FUSE-LC9SMA-6	FUSE-LC9M62-6	FUSE-LC9M50-6	FUSE-LC9M50L-6
	2 mm	FUSE-LC2SMU-6	FUSE-LC2SMA-6	FUSE-LC2M62-6	FUSE-LC2M50-6	FUSE-LC2M50L-6
FC	900 µm	FUSE-FC9SMU-6	FUSE-FC9SMA-6	FUSE-FC9M62-6	FUSE-FC9M50-6	FUSE-FC9M50L-6
	2 mm	FUSE-FC2SMU-6	—	FUSE-FC2M62-6	FUSE-FC2M50-6	FUSE-FC2M50L-6
	3 mm	FUSE-FC3SMU-6	—	FUSE-FC3M62-6	FUSE-FC3M50-6	FUSE-FC3M50L-6
ST	900 µm	FUSE-ST9SMU-6	—	FUSE-ST9M62-6	FUSE-ST9M50-6	FUSE-ST9M50L-6
	2 mm	FUSE-ST2SMU-6	—	FUSE-ST2M62-6	FUSE-ST2M50-6	FUSE-ST2M50L-6
	3 mm	FUSE-ST3SMU-6	—	FUSE-ST3M62-6	FUSE-ST3M50-6	FUSE-ST3M50L-6



- * Boot kits are available for 2.0 mm/3.0 mm Simplex cordage
- ** Requires FAST APC Tool Kit for installation
- *** AFL NO. is for one pack of 6 pieces
- **** Laser Optimized Multi-Mode Fiber (LOMMF) compatible with OM3 and OM4 fibers

FUSEConnect® MPO Fusion Spliced Field-Terminated Connectors

AFL’s FUSEConnect MPO performs as an equivalent to the standard factory-terminated MPO/MTP® assemblies. Designed to utilize standard ribbon, SpiderWeb Ribbon®, or loose tube cable, this connector helps minimize the complexity involved in the termination of a multi-fiber connection, allowing for a reliable and repeatable termination in field applications..

This updated design for the FUSEConnect MPO replaces the mechanical clamp splice protector with a heat protection sleeve utilizing the on-board splicer heater eliminating the need for a separate mechanical clamp tool. The connector is designed for use with the new RT-02 ribbonizing tool which does not require ribbonizing glue resulting in a cleaner termination process.



FEATURES

- Field installable splice-on connector
- Heat sleeve style splice protector
- Utilizes RT-02 ribbonizing tool for glueless termination process
- Only six components
- No adhesives, crimping or polishing
- Field MPO polarity customization
- Includes 3.0 mm round and flat ribbon boots in each pack

SPECIFICATIONS

PARAMETERS	INSERTION LOSS		RETURN LOSS	OPERATING TEMPERATURE
	AVERAGE (dB)	MAXIMUM (dB)		
SM (OS1)	0.25	0.75	>65 dB	-40 to +75°C
SM (OS1), Low Loss	0.10	0.35	>65 dB	-40 to +75°C
62.5/125 (OM1)	0.10	0.35	>30 dB	-40 to +75°C
50/125 (OM4)	0.10	0.35	>30 dB	-40 to +75°C

APPLICATIONS

- Connectorization in:
 - RF-overlay FTTP networks
 - Cable TV backbone networks
 - Outside plant
 - MDU FTTP cabling
- Connector restoration in the field
- Data center installation
- Patch cord customization in the field

FUSEConnect® Fusion Spliced, Field Installable Connectors

ORDERING INFORMATION

For cable size: 3.0 mm (ROUND) and 250 µm (FLAT)

CONNECTOR TYPE MALE/ FEMALE	AFL NO.*			
	APC SM (GREEN)	APC LOW-LOSS SM (MUSTARD)	PC 62.5 µm MM (BEIGE)	PC 50 µm LOMMF (AQUA) **
Male	FUSEMPO-S-SMA-3-M-6	FUSEMPO-S-LSMA-3-M-6	FUSEMPO-S-MM6-3-M-6	FUSEMPO-S-OM4-3-M-6
Female	FUSEMPO-S-SMA-3-F-6	FUSEMPO-S-LSMA-3-F-6	FUSEMPO-S-MM6-3-F-6	FUSEMPO-S-OM4-3-F-6

* AFL NO. is for one pack of 6 pieces

** Laser Optimized Multi-Mode Fiber (LOMMF) compatible with OM3 and OM4 fibers

Product Information



RT-02 Ribbonizing Tool Ordering Information

AFL NO.	DESCRIPTION
S017465	RT-02 (tool only)
S017464	FH-70-12PC (pair of pitch conversion holders for 200 µm loose fibers)
S017119	FH-70-12 (pair – standard 12F ribbon holders)



RT-02



RT-02 with FH-70-12PC

FASTConnect Universal Tool Kit

The FASTConnect Universal Tool Kit provides all of the necessary installation tools required for fiber preparation of 250 µm or 900 µm fibers, or 900 µm, 2 mm or 3 mm cordage for AFL's pre-polished FAST connectors. Included in the kit is the CT50 universal multimode/single-mode cleaver, AFL's premier cleaver with 60,000 cleave blade life, automatic blade rotation, and Bluetooth® capability. The carrying case contains all the industry standard termination tools required for fiber preparation, as well as, adequate storage for carrying extra FAST connectors for on-site convenience.



Tool Kit Contents

FEATURES

- Industry standard fiber preparation tools
- Compact design, flexible yet rugged case
- Complete instructions provided

APPLICATIONS

- Premise environments
- LAN Fiber to the Desk environments
- Patch panel/wiring closets
- FTTx applications
- Quick repair/replacement areas

ORDERING INFORMATION

DESCRIPTION	AFL NO.
FASTConnect Boot Kits for 2.0 mm and 3.0 mm Cordage	
2.0 mm Boot Kit, SC/LC/ST – Pack of 6	FAST-BOOT-2MM-6
2.0 mm Boot Kit, SC/LC/ST – Pack of 100	FAST-BOOT-2MM-100
3.0 mm Boot Kit, SC/LC/ST – Pack of 6	FAST-BOOT-3MM-6
3.0 mm Boot Kit, SC/LC/ST – Pack of 100	FAST-BOOT-3MM-100
FASTConnect® Installation Kits	
FASTConnect High Precision Tool Kit with CT50 Cleaver	CS001201
FASTConnect High Precision Tool Kit without cleaver	CS001201-NC
FASTConnect High Precision Tool Kit with CT16 Cleaver	CS010975

Product Information



FUSEConnect Tool Kit and Accessories



FUSEConnect Tool Kit Contents



FUSEConnect Accessory Kit



Cord Splitter Tool

The FUSEConnect tool kit provides all the necessary installation tools required for fiber preparation of 900 μ m fiber, 2 mm or 3 mm cordage for AFL's FUSEConnect Fusion Spliced Field Installable Connectors except for a fusion splicer and precision cleaver. Included in the kit are standard fiber preparation tools and cleaning supplies as well as a FUSEConnect accessory kit and cord splitter tool, which can be bought separately from the tool kit. The cord splitter tool is uniquely designed to open the cordage of 2 mm and 3 mm cable allowing the termination of the ST and FC type connectors on simplex cordage.

FEATURES

- Industry standard fiber preparation tools
- Compact design, flexible yet rugged case
- Complete instructions provided

APPLICATIONS

- Premise environments
- LAN Fiber-to-the-Desk environments
- Patch panel/wiring closets
- FTTx applications
- Quick repair/replacement areas

ORDERING INFORMATION

DESCRIPTION	AFL NO.
FUSEConnect Installation Kits	
FUSEConnect Accessory Kit	FUSE-AC-KT
FUSEConnect Tool Kit	FUSE-TL-KT
FUSEConnect MPO Tool Kit	FUSE MPO-TL-KT
RT-02 Ribbonizing Tool	FUSE-R2-TL
Cord Splitter Tool	FUSE-ST-TL
FUSEConnect MPO Heater Attachment Tool	FUSE-HT-TL
MPO Boot Kit for Jacketed Ribbon (Pack of 6)	FUSEMPO-BOOT-JK-6

Product Information



Fiber Cleavers



CT16 Cleaver



CT50 Cleaver



Designed for FTTH or other space-constrained applications where ergonomics and durability are key, the CT16 fiber cleaver is compact and can be operated ambidextrously. It features a unique fiber adapter, allowing users to cleave two bare fibers simultaneously when paired with the dual fiber stripper, the SS-05.

The CT50 features automated blade rotation, unprecedented durability, and simplistic maintenance unseen with any other cleaver. Paired with a Bluetooth®-enabled Fujikura splicer, cleaver blade positions can be automatically advanced when needed based on cleave count or cleave quality.

CT16 FEATURES

- Dual fiber adapter plate for single or two fiber cleaving
- Ambidextrous operation available
- Field replaceable fiber clamp pads and cleaver blade
- Shock resistant for drops up to 30" in any of six different orientations
- Compact form factor and tool-less blade rotations

CT50 FEATURES

- Motorized blade rotation
- Bluetooth communication
- Shock resistant
- Simple one-step operation
- 60,000 cleave blade life
- Field serviceable

ORDERING INFORMATION

DESCRIPTION	AFL NO.
CT16	
CT16 Fiber Cleaver includes: FDB-06 scrap collector, AD-16A fiber adapter, HEX-01 hex wrench (1.5 mm), M-CT16-E instruction manual, CC-46 carrying case	S018330
CT50	
CT50 Fiber Cleaver includes: AD-50 Adapter Plate, CC-37 Carrying Case and Instruction Manual	S017030

PRODUCT INFORMATION



For more information about AFL's Connector Solutions, Fusion Splicers, Test Equipment, Fiber Management Systems, Closures and accessories contact us at **(800) 235-3423** or online at **www.AFLglobal.com**

FUSION SPLICING EQUIPMENT



TEST, INSPECTION, CLEANING EQUIPMENT



APEX® SEALED SPLICE CLOSURES



ASCEND® HIGH-DENSITY PLATFORM





AFL



www.AFLglobal.com or (800) 235-3423

LC-01012 Rev. 11, 12.4.2023
© 2007, AFL, all rights reserved. Specifications are subject to change without notice.

CONNECTOR SOLUTIONS

FASTConnect® | FUSEConnect® | FUSEConnect® MPO