

**FAFL** **BTX**<sup>®</sup>



## CONNECTOR SOLUTIONS

FASTConnect<sup>™</sup> | FUSEConnect<sup>™</sup> | Field Master<sup>®</sup>

# Keeping You Connected



## FASTConnect™

- Provide some of the fastest terminations in the industry
- Does not require a crimp or tool
- Mechanical, true no epoxy/no polish (NENP) connectors



## FUSEConnect™

- Installed with a fusion splicer
- Mechanically, environmentally and optically equivalent to factory termination



## Field Master®

- Tried and true technology
- Enables skilled technicians to reliably and repeatedly terminate optical fibers in the field



## FEATURES BY METHOD

FEATURE	FASTCONNECT	FUSECONNECT	FIELD MASTER
Fiber Type	Single-mode, Multimode	Single-mode, Multimode	Single-mode, Multimode
Fiber Alignment	Pre-stubbed Factory Polished Ferrule	Factory Pre-polished Ferrule	High-precision Ceramic Ferrule
Connector Types	SC, ST and LC	SC, FC, ST, LC and MPO/MTP	SC, ST and LC
Boot Type	2.0 mm, 3.0 mm or 900 µm	2.0 mm, 3.0 mm or 900 µm	2.0 mm, 3.0 mm or 900 µm
Connection Style	Index Matching Gel	Fusion Spliced	Epoxy, Crimping, Polishing
Inspection	Visual Fault Identifier	Fusion Splicer	Microscope

# 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  $\mu\text{m}$  and 900  $\mu\text{m}$  optical fibers, as well as 2 mm and 3 mm 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	$\leq -55$	$\leq -45$	-40 to +75°C
SM APC-AU*	0.3	0.6	$\leq -55$	$\leq -50$	-40 to +75°C
SM APC-AA**	0.3	0.6	$\leq -65$	$\leq -60$	-40 to +75°C
MM PC	0.1	0.5	$\leq -25$	$\leq -20$	-40 to +75°C

\*AU denotes angled polish with a flat cleaved fiber

\*\*AA denotes angled polish with an angled cleaved fiber

# FuseConnect Fusion Spliced Field Installable

Uniquely designed and feature only four-to-five components. 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 and is compliant to GR-326-CORE. FuseConnect are compatible with Fujikura fusion splicers and most other fiber-holder-based fusion splicing platforms.



## FEATURES

- Field installable
- No adhesives, crimping or polishing
- True APC performance
- Compatible with most fusion splicers
- SM compliance to GR-326-CORE
- MM compliance to TIA/EIA568C.3

## APPLICATIONS

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

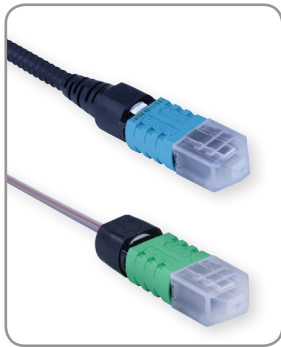
## SPECIFICATIONS

PARAMETERS	INSERTION LOSS		RETURN LOSS	OPERATING TEMPERATURE
	AVERAGE (DB)	MAXIMUM (DB)		
SM UPC	0.15	0.3	≤ -55	-40 to +75°C
SM APC	0.15	0.3	≤ -65	-40 to +75°C
MM PC	0.10	0.3	≤ -30	-40 to +75°C

# FuseConnect MPO Fusion Spliced Field-Terminated Connectors

Designed to FOCIS, Type MPO, FOCIS-5 and TIA-604-5-C standards, AFL's FuseConnect MPO performs as an equivalent to the standard factory-terminated MPO/MTP<sup>®</sup> assemblies. Utilizing either ribbon or loose tube cable, this connector simplifies the termination of a multi-fiber connection, allowing for a reliable and repeatable termination in field applications.

The FuseConnect MPO is part of the FuseConnect family (SC, FC, LC and ST) which requires a fusion splicer and accessories for installations. The FuseConnect MPO Termination Kit specifically provides all the necessary accessories required for field termination.



## FEATURES

- Field installable splice-on connector
- Only six components
- No adhesives, crimping or polishing
- TIA-568-C.3, IEC-61754-7 and TIA/EIA-604-5 FOCIS 5 compliant
- Field MPO polarity customization
- Includes 3.0 mm round and optical fiber ribbon flat boots in each pack

## SPECIFICATIONS

PARAMETERS	INSERTION LOSS		RETURN LOSS	OPERATING TEMPERATURE
	AVERAGE (DB)	MAXIMUM (DB)		
SM (OS1)	0.25	0.75	≤ -65	-40 to +75°C
62.5/125 (OM1)	0.10	0.35	≤ -30	-40 to +75°C
50/125 (OM2)	0.10	0.35	≤ -30	-40 to +75°C
50/125 LOMMF* (OM3/OM4)	0.10	0.35	≤ -30	-40 to +75°C

\*Laser Optimized Multi-mode Fiber is compatible with OM3 and OM4 fiber types

## 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

# Field Master Anaerobic Field Installable Connectors

Field Master Connectors for field termination of fiber optics feature high precision, high reliability and low applied connector cost. Durable metal components, industry-standard connector designs and proven crimp technology give the customer peace-of-mind that their installed network is steady and reliable. Field Master Tool Kits come complete with all necessary tools and consumables for the professional installation of Field Master Connectors.



## FEATURES

- High precision ceramic ferrules ensure fiber alignment and repeatable performance
- Rugged metal connector bodies provide sturdy cable terminations
- Industry standard interfaces allow interoperability with media equipment
- Meets EIA/TIA 568B performance requirements

## APPLICATIONS

- Premise environments
- Desk for LAN environments
- Patch panels
- Direct equipment termination

*Consult the Connector Solutions Ordering Guide  
for ordering information on all of the products featured.*

For more information about AFL's Connector Solutions, Fusion Splicers, Test Equipment, Fiber Management Systems, Closures and accessories contact us at (800) 666-0996 or online at [www.BTX.com](http://www.BTX.com)

**FIELD MASTER TOOL KIT**



**FASTConnect UNIVERSAL TOOL KIT**



**FUSEConnect INSTALLATION KIT**



**FUSION SPLICING EQUIPMENT**

