



FuseConnect™ SC Connector



FuseConnect™ LC Connector



FuseConnect™ Packaging



FuseConnect™ Installation Kit



FuseConnect™ in Fusion Splicer

FuseConnect™

AFL's FuseConnect™ fusion-spliced, field-terminated connectors are uniquely designed and feature just four components. With a factory pre-polished ferrule, its innovative field-termination process eliminates polishing, adhesives, and crimping in the field.

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 of >65dB return loss in an SC/APC configuration and SC single-mode is compliant to GR-326-CORE. Designed to work with an industry standard 10mm cleave length and splicers utilizing a fiber holder system, FuseConnect™ is compatible not only with Fujikura's fusion splicers, but also with most other fiber holder-based fusion splicing platforms currently available in the industry.

The innovative four-component structure of FuseConnect™ eliminates the complexity of additional crimp ring parts, virtually eliminating the crimping operation. The simplified field installation minimizes the potential for operator error and expensive connector scrap, even in difficult field environments or in exposed conditions at remote site locations.

Features

- Field installable
- Only four components
- No adhesives, crimping or polishing
- True APC performance
- MM compliant to TIA/EIA568C.3
- Compatible with most fusion splicers

Applications

- Connectorization in:
 - RF-overlay FTTP networks
 - Cable TV backbone networks
 - Outside plant
 - FTTHdesk
 - MDU FTTP Cabling
- Central office connector replacement
- Data center installation

Specifications

PARAMETER	VALUE
Connector Type	SC [TIA/EIA-604-3 (FOCIS 3)] / LC [TIA/EIA-604-10A (FOCIS 10)]
Cable Type	900µm, 2mm, 3mm
Polish	APC, UPC, PC
Insertion Loss	SM: 0.15dB (average), 0.3dB (maximum) / MM: 0.10dB (average), 0.3dB (maximum)
Return loss	SM = > 65dB (APC), > 55dB (UPC) / MM = > 30dB (PC)
Operating Temperature	-40°C to +75°C

Ordering Information

CONN. TYPE	BOOT TYPE	PART NUMBER*				
		UPC SM (Blue)	APC SM (Green)	PC 62.5µm MM (Beige)	PC 50.0µm MM (Black)	PC 50.0µm 10GIG MM (Aqua)
SC	900µm	CS004520	CS004517	CS007795	CS007801	CS007807
	2mm	CS004519	CS004516	CS007794	CS007800	CS007806
	3mm	CS004518	CS004515	CS007793	CS007799	CS007805
LC	900µm	CS008237	—	CS008243	CS008241	CS008239
	2mm	CS008248	—	CS008254	CS008252	CS008250

* Part number is for a single unit

PART NUMBER	DESCRIPTION
S014492	FuseConnect™ Installation Kit for: FSM-17S-FH, FSM-17R, FSM-18S, FSM-18R, FSM-50R12, FSM-60S, FSM-60R12
S014516	FuseConnect™ Installation Kit for: FSM-11R, FSM-11S (SpliceMate™)