FuseConnect™ Series

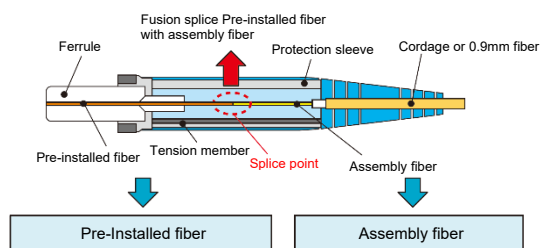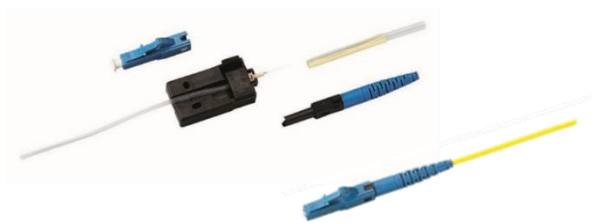| Pre-Installed fiber | Assembly fiber |

FuseConnect™ is designed to work with an industry standard cleaver and splicers utilising a fibre holder system and the simplified field installation process minimises the potential for operator error and expensive connector scrap, even in difficult field environments or in exposed conditions at remote site locations.

Our latest fusion splicers are also pre-programmed for FuseConnect™ terminations, which further simplifies the assembly process.

Features

- No epoxy, No polishing
- Easily fusion splicer termination operation
- FuseConnect™ is designed for 900 μm coated fiber, 2 mm / 3 mm cord and rectangle shaped drop/indoor cable

Applications

- Field termination of optical connector in Data center and central office
- Low return loss connection

Specifications

1) 0.9 mm fiber / 2 mm cord

Applicable Fiber	0.9 mm Fiber (850−950 μm) or 2 mm Cord (inside 0.9 mm Fiber)		
Connector	SC, LC		
Fiber	SM	MM (OM1, OM4) (*1)	
Polishing	UPC	APC	PC
Housing Color	Blue	Green	OM1: Beige, OM4: Aqua
Insertion Loss (*2)	≤ 0.4 dB		
Return Loss (*2)	≥ 50 dB	≥ 60 dB	-

2) Rectangular shaped cable

Applicable Fiber/cable	Outdoor (3.1 x 2 mm) or Indoor (2 x 1.6 mm)	
Connector	SC	
Fiber	SM	
Polishing	UPC	APC
Housing Color	Blue	Green
Insertion Loss (*2)	≤ 0.4 dB	
ReturnLloss (*2)	≥ 50 dB	≥ 60 dB

(*1) OM1:GI 62.5/125, IEC60793-2-10A1b, OM4:GI50/125, IEC60793-2-10A1a.3 OM2 and OM3 are also available
(*2) with master, SM @ 1310,1550 nm, MM @ 850,1310 nm

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Ordering Information / Product Image (After assembly)

1) 0.9 mm fiber

Fiber	Polishing	SC	LC
SM	UPC	SC-SF-SM-09	LC-SF-SM-09 (*A)
	APC	SC-SF-APC-09	LC-SF-APC-09 (*B)
MM (OM1)	PC	SC-SF-GI6-09	LC-SF-GI6-09
MM (OM4)	PC	SC-SF-OM4-09	LC-SF-OM4-09 (*C)

*A: LC-SF-SM-09   *B: LC-SF-APC-09   *C: LC-SF-OM4-09

2-1) 2 mm code only (*3)

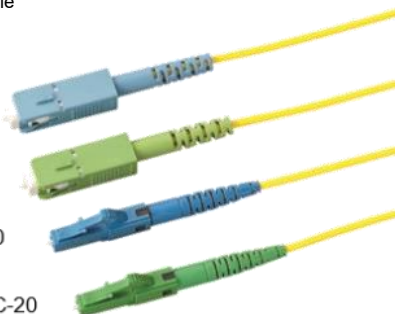| Fiber	Polishing	SC	LC
SM	UPC	SC-QA-SM-20 (*D)	LC-QA-SM-20 (*F)
	APC	SC-QA-APC-20 (*E)	LC-QA-APC-20 (*G)
MM (OM1)	PC	SC-QA-GI6-20	LC-QA-GI6-20
MM (OM4)	PC	SC-QA-OM4-20	LC-QA-OM4-20

(*3) 3 mm cord type is also available

*D : SC-QA-SM-20

*E : SC-QA-APC-20

*F : LC-QA-SM-20

*G : LC-QA-APC-20

3-1) Rectangular shaped cable: Outdoor (3.1 x 2 mm)

Fiber	Polishing	SC	LC
SM	UPC	SC-DC (*H)	-
	APC	SC-DC-APC	-

3-2) Rectangular shaped cable: Indoor (2 x 1.6 mm)

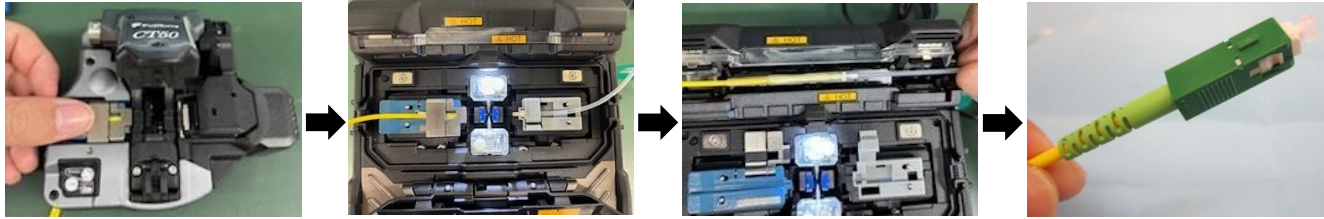| Fiber	Polishing	SC	LC
SM	UPC	SC-LFC (*I)	-

*H: SC-DC   *I: SC-LFC

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Assembly Flow of Fuse Connector

FuseConnect-SC-QA-SM-20　(SC connector, QA type, SM, 2 mm cord)

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1. Remove cord jacket and cut Aramid yarn in proper length. Remove 0.9 mm coated fiber and set onto the fiber holder for cleaving the fiber in proper length.

2. Set fiber holder and connector holder onto fusion splicer for splicing.

3. Set protection sleeve to the spliced fiber with Aramid yarn. Heat the protection sleeve.

4. Assemble housing.

Note: See operation manual for details. Assembly flow is different in connector types and cord types.

Assembly Tool

For 0.9 mm fiber and Rectangular shaped cable

- LFC/DC types   For LFC cable   ：**FUSECONNECT-SC-LFC**
                         For DC cable   ：**FUSECONNECT-SC-DC**
- SF types   For 0.9 mm fiber ：**FUSECONNECT-■-SF-■-09**

Tools / Connector Types	LFC/DC Types		SF Types
	LFC Cable	DC Cable	0.9 mm Fiber
Stripper	Included with connector kit	Included with connector kit	0.25 mm fiber stripper SS03 or 0.9 mm fiber stripper MS-4B-08S-B9
Fiber Holder	FH-60-IDC250	FH-60-IDC250	FH-50-900、FH-60-900
Cleaver	CT08, CT16, CT50		
Fusion Splicer	Fujikura Fusion Splicer (*4)		

For Cordage

- QA types   For 2 mm cord   ：**FUSECONNECT-■-SF-■-09**

Tools / Connector Types	QA Types
	For 2 mm Cord
Cord Clamp	CABLE CLAMP (2 mm and 3 mm) (*5)
Cord Jacket stripper	0.25 mm fiber stripper SS03 or off-the-shelf fiber stripper
Aramid yarn cutter	Off-the-shelf tool
Stripper	0.25 mm fiber stripper SS03 or 0.9 mm fiber stripper MS-4B-08S-B9
Fiber Holder	FH-FC-20
Cleaver	CT08, CT16, CT50
Fusion Splicer	Fujikura Fusion Splicer (*4)

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For 2 mm cord **For 3 mm cord**

CABLE CLAMP (2 mm and 3 mm) *5

0.25 mm Fiber Stripper
SS03

0.9 mm Fiber Stripper
MS-4B-08S-B9

Fiber Holder

Cleaver
CT50

Fusion Splicer *4
90R

Note: Alcohol and wipes are also necessary for fiber cleaning process

(*4) Applicable Fusion Splicers: 90S+/90S/90R, 45S, 41S+/41R, 70S+/70S/70R, 19S+/19S/19R, 12Si/12S/12R
(*5) Both cable clamps are provided as a tool set.

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