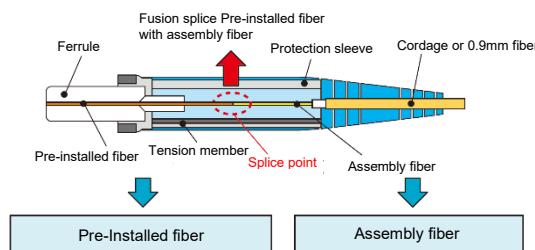


FuseConnect™ Series



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

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		OM1: Beige, OM4: Aqua
Insertion Loss (*2)	≤ 0.4 dB		
Return Loss (*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



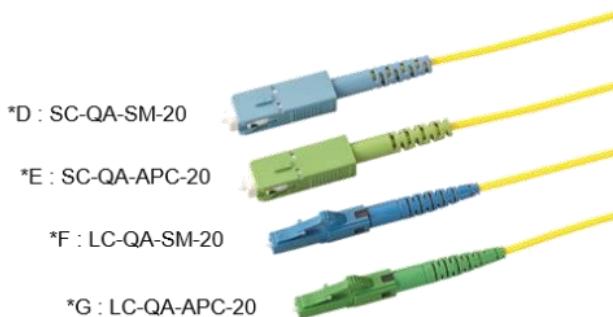
*C: LC-SF-OM4-09



2) 2 mm core only (*3)

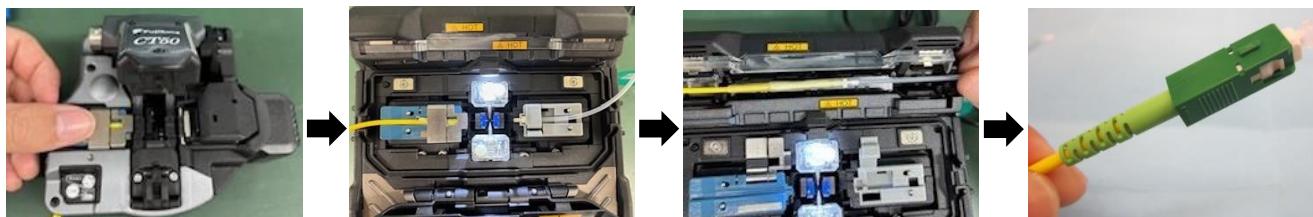
Fiber	Polishing	SC	LC
SM	UPC	SC-QA-SM-20 (*D)	LC-QA-SM-20 (*F)
	APC	SC-QA-APC-20 (*E)	LC-QA-APC-20 (*G)
MM (OM1)	PC	SC-QA-GI6-20	LC-QA-GI6-20
MM (OM4)	PC	SC-QA-OM4-20	LC-QA-OM4-20

(*3) 3 mm cord type is also available



Assembly Flow of Fuse Connector

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



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.



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Assembly Tool

For 0.9 mm fiber

- SF types For 0.9 mm fiber : **FUSECONNECT-■-SF-■-09**

Tools	Connector Types	SF Types
		0.9 mm Fiber
Stripper		0.25 mm fiber stripper SS03 or 0.9 mm fiber stripper MS-4B-08S-B9
Fiber Holder		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-■-QA-■-20**

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)



For 2mm cord

CABLE CLAMP (2mm) *5



0.25mm fiber stripper
SS03



0.9mm 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) 3mm type is available.



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