

DESCRIPTION

FITEL's new connector termination system allows for unsurpassed performance and flexibility in the field.

This new "splice-on" connector eliminates the need for field polishing and significantly improves the quality of the termination and installation time required.

FITEL's factory polished ferrules with pre-cleaved fiber stubs are spliced onto the field fiber utilizing FITEL's proprietary ferrule holder and fusion splicer. Once spliced, the SC/APC or SC/UPC connector is easily assembled by using a process that requires minimal skill or training.



TECHNICAL INFORMATION - SPLICER

	TYPE	
	S122C	S177AX-02
Splicing Method	Clad-Alignment	Core-Alignment
Fiber Type	SMF, MMF, DSF, NZDSF	SMF, MMF, DSF, NZDSF, EDF, etc.
Insertion Loss	Typical 0.05dB (SMF)	Typical 0.02dB (SMF)
Battery Capacity	50 splice cycles	70 splice cycles
Applicable Sleeves	20 - 60mm	20 - 60mm

TECHNICAL INFORMATION - CONNECTOR

	TYPE	
	SC/Ultra PC; FC/Ultra PC	SC/Angled PC; FC/Angled PC
Insertion Loss	Typical 0.30dB	
Reflectance	< - 55dB	< -65dB
Fiber Type	SMF	
Jacket Type	900µm, 2mm, 3mm	
Ferrule Type	Zirconia ceramic ferrule with pre-polished fiber stub	

FEATURES & APPLICATIONS

- **Simple, Fast, & Consistent Field Termination**

Allows for easy field repair of pre-terminated splitters, fan outs, and drop terminals.

- **No Polishing or Epoxy**

FITEL's connector termination process requires no polishing or epoxy increasing the quality and consistency of field connector termination. Total installation time is greatly reduced compared to traditional methods.

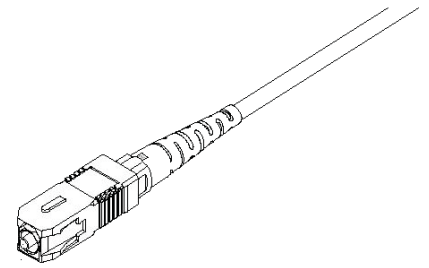
- **Fiber Management**

The most difficult task for splicer operators has always been managing the fiber upon completion of splicing. The connector termination feature on the S122A and S177A eliminates the need for splice trays resulting in easier fiber management, reduced storage requirements, and faster installation times.

900µm CONSTRUCTION



2 & 3mm CONSTRUCTION



ORDERING INFORMATION

PART NUMBER	DESCRIPTION
S122C	S122C Clad Alignment Fusion Splicer
S177AX-02	S177AX-02 Core-Alignment Fusion Splicer
S122C-SOC Kit	S122 Connector Termination Add-on Kit
S177A-SOC Kit	S177 Connector Termination Add-on Kit
SSCS-PN1	SC/APC Splice-On-Connector, 900um
SSCS-PN2	SC/APC Splice-On-Connector, 2mm
SSCS-PN3	SC/APC Splice-On-Connector, 3mm
SSCS-P1	SC/UPC Splice-On-Connector, 900um
SSCS-P2	SC/UPC Splice-On-Connector, 2mm
SSCS-P3	SC/UPC Splice-On-Connector, 3mm
SAPS-388	FC/APC Splice-On-Connector, 900um
SAPS-386	FC/APC Splice-On-Connector, 2mm
SAPS-387	FC/APC Splice-On-Connector, 3mm
SAPS-358	FC/UPC Splice-On-Connector, 900um
SAPS-356	FC/UPC Splice-On-Connector, 2mm
SAPS-357	FC/UPC Splice-On-Connector, 3mm

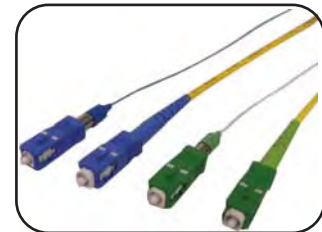
S122



S177



SOC CONNECTORS



Furukawa reserves the right to improve, enhance, and modify the features and specifications of FITEL products without prior notification

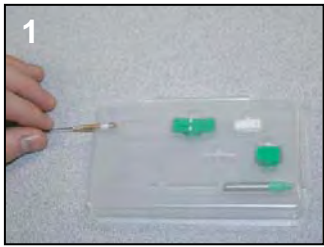
For Ordering Information Please Contact:

FURUKAWA ELECTRIC
Europe Ltd.

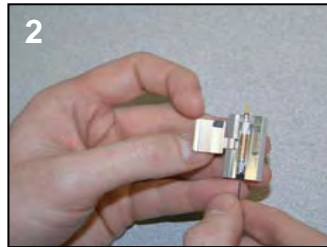


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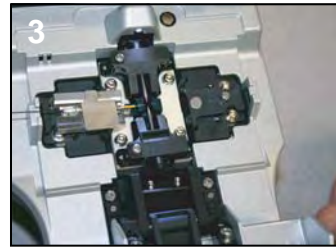
FITEL® Splice-On-Connector Quick Reference Guide - 250 & 900μm



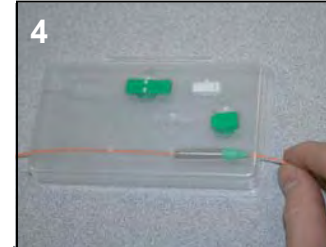
1
Remove ferrule from packaging using ferrule transportation tool.



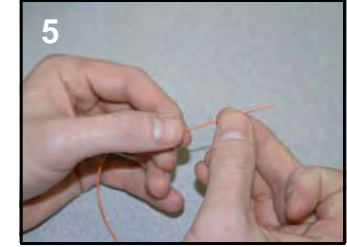
2
Place ferrule in ferrule holder using ferrule transportation tool.



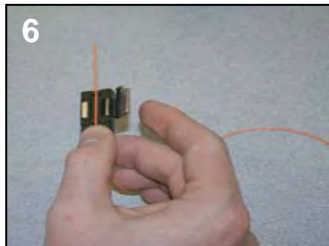
3
Place ferrule holder directly into fusion splicer



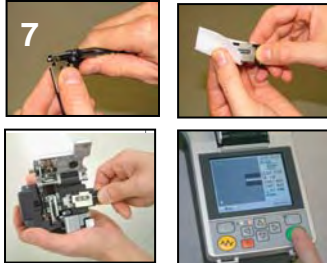
4
Slide field fiber through main body connector parts inside packaging. Then remove.



5
Slide included 20mm protection sleeve onto field fiber.



6
Load fiber into fiber holder leaving approximately 1.25 inches protruding from holder.



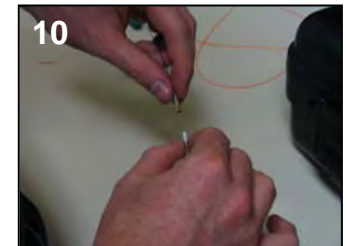
7
Prepare field fiber for fusion splicing using standard procedure.



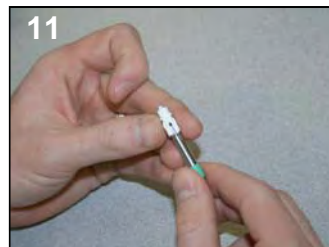
8
Slide splice sleeve over spliced fiber



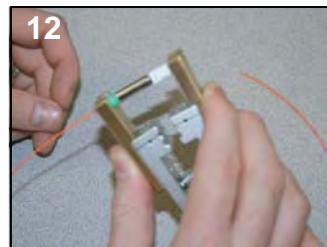
9
Protect splice with heat shrink tubing and shrink over



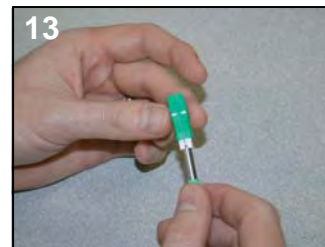
10
Remove Transportation Tool



11
Slide up main body and spring. Place inner housing over main body and ferrule (for APC align dot with round side of inner housing). Main body is keyed to inner housing.



12
Use Connector Assembling Tool to snap on inner housing to main body.



13
Slide outer housing over inner housing. Inner housing is keyed to outer housing.



14
COMPLETE!

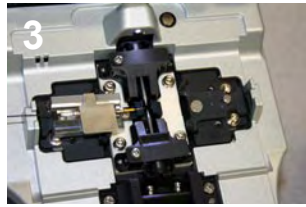
FITEL[®] Splice-On-Connector Quick Reference Guide - 2 & 3mm



1
Remove ferrule from packaging using ferrule transportation tool.



2
Place ferrule in ferrule holder using ferrule transportation tool.



3
Place ferrule holder directly into fusion splicer.



4
Slide cordage fiber through connector parts inside of packaging.



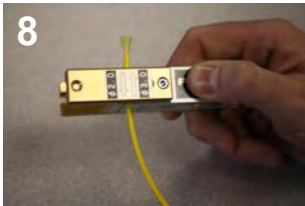
5
Remove cordage with connector parts attached.



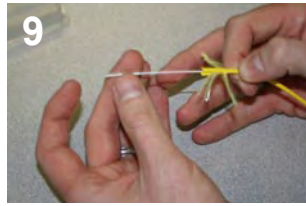
6
Remove approximately 2 inches of cordage.



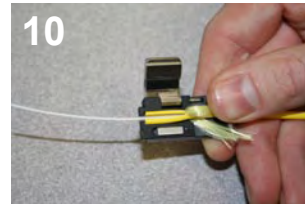
7
Cut kevlar leaving approximately 1/4 inch protruding from cordage.



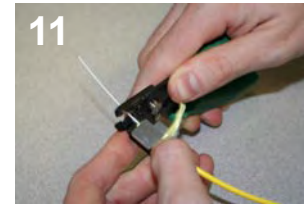
8
Use Connector Assembling Tool to put approximately 3/4 inch slit into cordage (Guide on side of tool).



9
Remove protection sleeve from packaging and slide onto 900µm fiber.



10
Place fiber into cordage holder with slit facing up as shown. Sleeve protrudes slightly from fiber holder with metal reinforcement facing down.



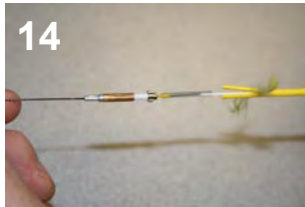
11
Place thumb firmly on rear of fiber holder and strip fiber from fiber holder edge (leaving approximately 4mm of coating protruding from holder).



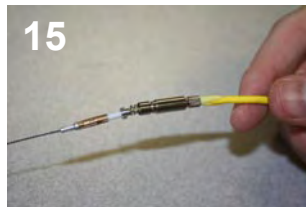
12
Clean fiber, cleave fiber, load into splicer, and splice.
** Tension test is not applicable and should be in OFF position before splicing.



13
Slide 20mm protection sleeve over splice point, shrink in heat shrink oven.



14
Remove protected fusion splice from fusion splicer.



15
Slide up main body and spring. Remove ferrule transportation tool.



16
Place inner housing over main body and ferrule (for APC align dot with round side of inner housing). Stop ring is keyed to inner housing.



17
Use Connector Assembling Tool to snap on inner housing to main body.



18
Slide up "crimp sleeve" so that the kevlar is pinched between crimp sleeve and main body.



19
Crimp "crimp ring" onto main body using 0.190 round.



20
Remove split cordage from underneath "crimp ring."



21
Crimp "sleeve" onto "crimp ring" using 0.178 hex slot.



22
Slide boot over components. Main body is keyed allowing for boot to rest in proper position.



23
Slide outer housing over inner housing. Inner housing is keyed to outer housing.



24
COMPLETE!

S240A Slitter Snapper Operating Instructions

- Please read entire manual prior to usage.
- This manual must be kept with the S240A Slitter Snapper.

Safety Instructions

This manual contains the complete operating and maintenance instructions for S240A Slitter Snapper. Please review this manual carefully before operating the S240A Slitter Snapper.

The following safety instructions must be observed whenever this product is operated, serviced or repaired. Failure to comply with any of these instructions or with any precaution or warning contained in this manual is in direct violation of the standards of the design, the manufacture and the intended use of the instrument. THE FURUKAWA ELECTRIC CO., LTD. assumes no liability for the customer's failure to comply with these requirements.

Safety Instructions

CAUTION Failure to comply with any of the instructions, which are indicated by this symbol, may cause serious injury or damage to the machine.

Please contact THE FURUKAWA ELECTRIC CO., LTD. with any questions relating to the description of this manual.

In no case will THE FURUKAWA ELECTRIC CO., LTD. be liable to the buyer, for any consequential or indirect damage which is caused by product failure, malfunction, or any other problem.

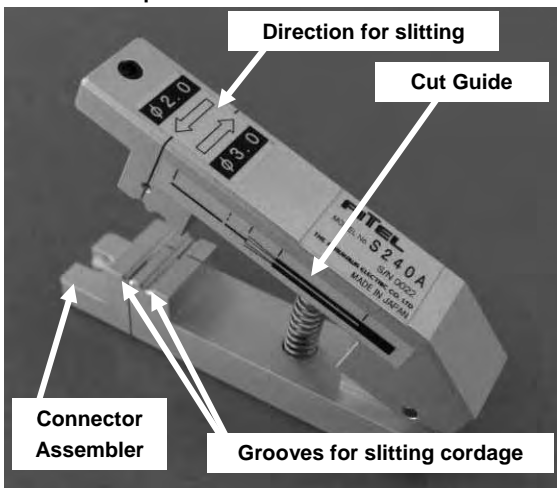
CAUTION

- Avoid soaking the S240A Slitter Snapper with water. Doing so may cause malfunction.
- Do not drop, throw, and disassemble. Doing so may cause malfunction.
- Ensure that cleaning the S240A Slitter Snapper and slit fiber cordage, before slitting. If not doing so, it may occur that fiber breaking or irregular slit, because of dust.
- Do slit slowly. If ribbon fiber cannot be slit smoothly, interrupt slit and cleaning. If smoothness is not recovered, it is possible that the S240A Slitter Snapper has malfunctioned or fiber has deformed. Stop slitting till the cause is cleared. If slit is done with continue, it may occur fiber breaking or add the damage to fiber.
- The S240A Slitter Snapper is designed with special attention to prevent damage to the fiber. But there are possibilities of damaging fiber, in condition of fiber, cleaning, and the S240A itself. Therefore please use the S240A with caution.
- There are possibilities of damaging the fiber or not being able to slit the cordage due to the condition of fiber, cleaning, and the S240A itself. Therefore please use the S240A Slitter Snapper with deep understanding of those matters.
- Don't apply the S240A Slitter Snapper for active line.

1. Standard Components

Description	Part Number	Quantity
Main Body	S240A	One(1)
Carrying Case		One(1)
Operating Instructions		One(1)

2. Name of each part



3. Applicable Fiber cordage (*1)

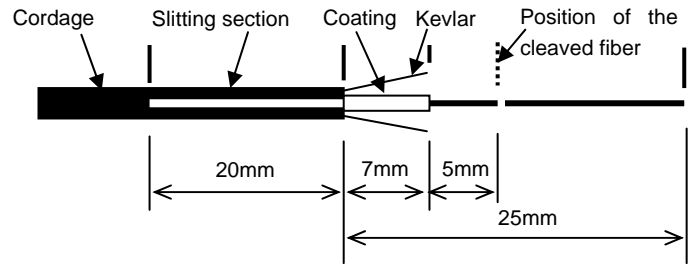
Item	Specification
Coating material of cordage	PVC
Diameter of cordage	3mm cordage: 2.8 +/- 0.2mm, 2mm cordage: 2.0 +/- 0.2mm
Thickness of cordage	3mm cordage: 0.4mm to 0.55mm, 2mm cordage: 0.3mm to 0.34mm
Structure of cordage	Kevlar and 0.90mm single tight buffer fiber included.
Applicable connector	SC-type connector complaint with SOC (Splicer on connector), for 2mm cordage, 3mm cordage, 0.90mm single tight buffer fiber and 0.25 single fiber.

(*1) Note that optical fiber may be broken due to type of cordage and condition of tool. Check if the tool works prior to using.

4. Operating Instructions

4.1. Indication of marking

The drawing of sticker on the S240A has the following meaning as the Cut Guide. Use them as the markings when identifying where the cordage is cut.



Explanation of Cut Guide

4.2. Slitting the cordage

Slit the PVC coating in the longitudinal direction of the cordage.

- (6) Set the cordage on the Groove for slitting. Note that there are two grooves for 3mm cordage and 2mm cordage.
- (7) Black line indicates the position where the fiber cordage is cut. Check if the position to be slit on the cordage is set at the black line to close the tool gently. (Picture 1)
- (8) Check if the cordage is set correctly on the groove and is not sandwiched after closing the tool. If it is, set the cordage again.
- (9) Move the tool in the direction for slitting. (Picture 2)



Picture 1



Picture 2

- (10) After slitting, check if the fiber is visually damaged or not. (Picture 3)



CAUTION:

In case that the optical fiber is damaged, the tool may malfunction or the cordage may be abnormal. Stop the operation until the cause of failure can be found out.



Picture 3

4.3. Assembling the connector

Insert the Stop Ring into the front section of tool for SOC.

- (4) Place the stop ring over the inner housing. In the case of APC be sure that the red dot is aligned with the round side of the inner housing.
- (5) Set the S240A as shown in picture 4. The ferrule section should be on the upper side of the tool. (Picture 4)
- (6) Keep closing the tool until the Stop Ring is attached to the inner housing with secure sound.



Picture 4



CAUTION:

Close the tool gently and without excessive push. The plug frame may be broken with excessive push.

5. Product Warranty

The product warranty is valid for one (1) year or up to ten thousands (10,000) slits, whichever occurs first, after the date of shipment.

6. Contact

For sales and service information, contact THE FURUKAWA ELECTRIC CO., LTD. or your local representative.

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