

# **FITEL Fusion Splicer**

***accessories and consumables***

**S310 -S315 Single Fiber Field Cleaver**



**S42X Tool kit**



**S233 Optical Ribbon Fiber Splitter**



**S210 Single Fiber Stripper**



**S220A Optical Ribbon Fiber Separator**



**S91X Temporary Fiber Aligner**



**S918A Temporary Fiber Aligner**



**S612 Ribbon Forming Fixture**



**S92X Series Protection Sleeves**



**FITEL**  
**FURUKAWA ELECTRIC**

# Fusion Splicing Accessories and Consumables

## S310 and S315 Single Fiber Cleavers

### Description

The FITEL **S310** and **S315** Single Fiber Field Cleavers are designed for cleaving fiber in the field quickly and easily. The **S310** and **S315** Field Cleavers can accommodate 0.25mm and 0.9mm coating diameters and their small lightweight size makes them the perfect addition to any field splicing system. The **S310** and **S315** field cleavers require some skill to achieve the desired cleave angle and may not be appropriate for some splicing applications. The **S310** is specifically designed to cleave fiber in the field accurately to a 16mm length. The **S315** has a graduated scale, which allows for cleave lengths of 5 to 20mm.



### Dimensions

125L x 20W x 42H mm

### Weight

65 g

### Applicable optical fiber

Silica glass-based optical fibers, single fiber, 0.25mm and 0.9mm coating diameter, 0.125 clad diameter

### Models

S310 : For cleaving to 16mm length  
S315 : For cleaving 5 to 20mm length adjusting with scale

## S210 Single Fiber Stripper

### Description

The FITEL **S210** Single Fiber Stripper is designed to strip 0.25mm as well as 0.9mm diameter fiber. This easy to use stripper has a 20mm wide base with the blade located in the center to ensure safe longitudinal stripping.



### Applicable optical fiber

Silica glass-based optical fibers, single fiber, 0.25mm and 0.9mm coating diameter, 0.125 clad diameter

### Dimensions

80L x 20W x 26H mm

### Weight

70 g

## S220A Optical Ribbon Fiber Separator

### Description

Designed to initiate separating 2 to 12-fiber ribbons into single fibers. After shaving with **S220A**, the ribbon fiber can be easily separated by fingers into single fibers. Compact carrying case included as standard.



### Applicable optical fiber

2 to 12 fiber ribbons with the thickness of 0.30 - 0.40mm

### Dimensions

55W x 30D x 22H mm

### Weight

100 g

### Caution

Do not use the S220A on live fiber or for a mid-span strip. Discard the section of the fibers to which the S220A was applied before splicing or reconnecting the exposed fibers.

### Standard Components

Description	Model Number	Quantity
Fiber Separator	S220A	1
User's Manual	FTS-B013	1

## S233 Optical Ribbon Fiber Splitter

### Description

FITEL **S233** Ribbon Splitter splits 4, 8, 12, and 24-fiber ribbons more easily, quickly, and accurately than ever before! Another great Fitel fusion splicing accessory from Furukawa Electric!



### Key Features

- Small, simple, and compact design for field use.
- All-metal body for maximum durability.
- Interchangeable fiber guides for different ribbon sizes.
- No tools required to change fiber guides!

## Specifications

### Applicable Optical Fibers

125  $\mu$ m cladding diameter; 4/8/12/24-fiber ribbons; 0.25mm pitch; 0.30 to 0.40mm thickness; UV-cured acrylic resin coating\*

**Dimensions** : 115W x 20D x 20H mm **Weight** : 95g

**Models** : (see below for Fiber Guide descriptions)

**S233A** : Fiber Guide A is included as standard

**S233B** : Fiber Guide B is included as standard

**S233C** : Fiber Guide C is included as standard

### Caution

Do not use the S233 on live fiber or for a mid-span strip. Discard the section of the fibers to which the S233 was applied before splicing or reconnecting the exposed fibers.

### Standard Package

Description	Model Number	Quantity	Remark	Product Line		
				S233A	S233B	S233C
Main Body**	S233X-01	1	All-metal base body for all fiber guides	○	○	○
Cleaning Brush	S233X-02	1	Tool to remove fiber jacket waste	○	○	○
Carrying Case	S233X-03	1	Clear; holds all standard components	○	○	○
Fiber Guide A	S233X-11	1	Obverse: 4-fiber ribbon > 2 x 2-fiber ribbons Reverse: 4-fiber ribbon > 3-fiber ribbon & single-fiber	○	—	—
Fiber Guide B	S233X-12	1	Obverse: 4-fiber ribbon > 2 x 2-fiber ribbons Reverse: 8-fiber ribbon > 2 x 4-fiber ribbons	—	○	—
Fiber Guide C	S233X-13	1	Obverse: 12-fiber ribbon > 2 x 6-fiber ribbons Reverse: 24-fiber ribbon > 2 x 12-fiber ribbons	—	—	○
User's Manual	S233X-82	1	English Manual	○	○	○

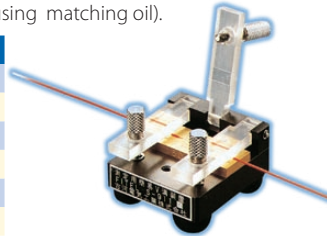
\*S233 may not work satisfactorily with some ribbon fiber coating materials. \*\*Not sold individually

## S91X Temporary Fiber Aligner

### Description

Designed as a jig for temporary jointing the fibers for measuring transmission loss or for experimental purposes. A simple procedure to strip, clean, cleave and load the fiber makes a temporary jointing with a typical average loss of 0.25dB for SM fiber (when using matching oil).

Model/No.	Dia. of Applicable Fibers	Qty
S911	0.90 x 0.90	1
S912	0.90 x 0.40	1
S913	0.40 x 0.40	1
S914	0.40 x 0.25	1
S915	0.25 x 0.25	1
S916	0.25 x 0.90	1



## Specifications

### Fiber Type

SMF, MMF (Single Fiber)

### Insertion

0.25dB (with matching gel)

### Dimensions

50W x 55D x 33H mm

### Weight

350g

## Standard Package

Item	P/N	Quantity
Main Body	S91X	1
User's Manual	—	1

## S918A Temporary Fiber Aligner

### Description

Designed to make the time-consuming job of testing ribbon fiber quicker and easier, the **S918A** allows the user to create a temporary connection of single to 12-ribbon fibers.

### Optional Accessories

#### Fiber Holders

The fiber holders to meet your fiber type are required from the following selections.



Model Number	Applicable Fibers (Number of fibers/Diameter or Ribbon Thickness)
S706S-025	Single/0.25mm
S706S-090	Single/0.9mm
S706A-002	2-fiber ribbon/0.4mm
S706A-004	4-fiber ribbon/0.4mm
S706A-008	8-fiber ribbon/0.4mm
S706A-012	12-fiber ribbon/0.4mm

## Specifications

### Fiber Type

Silica glass-based optical fiber

### Ribbon Count

2-12 Fiber Ribbon

### Coating

250µm-900µm Single Fiber  
300µm-400µm Ribbon Fiber  
(250µm pitch)

### Cleave Length

100mm

### Typical Loss

0.2dB (using matching gel)

### Pushing Mechanism

Manual dial wheel

**Light:** Switch turns light on in magnification area

### Dimensions

Body: 131W x 90D x 58H mm

Case: 385W x 270D x 95H mm

### Weight

Body: 540 g

## Standard Components

Description	Model No.	Quantity
Main Body	S918A-01	1
Light	S918A-02	1
Matching Gel	S918A-31	1
Bamboo Pick	S918X-32	5
Case	S918X-33	1
User's Manual	—	1

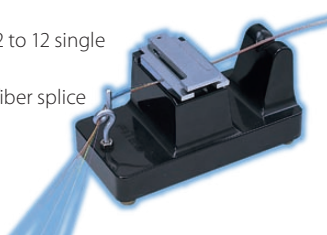
## S612 Ribbon Forming Fixture

### Description

Designed to form a ribbon-like fiber with 2 to 12 single fibers.

**S612** offers a high efficient simultaneous fiber splice with FITEC ribbon fusion splicers.

- Easy to operate.
- Smallest fixture in the industry.
- Consumables are adhesive only.



**Applicable optical fiber:** 2 to 12 fiber ribbons

### Weight

400 g

### Dimensions

120W x 60D x 58H mm

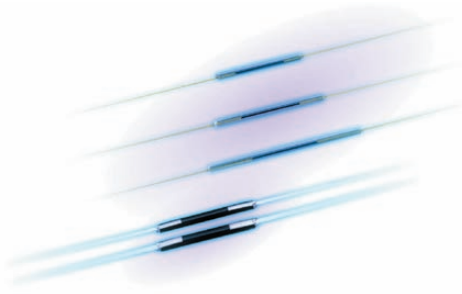
## Standard Components

Description	Model No.	Quantity
Ribbon forming fixture	S612	1
Adhesive	S611-04	50ml x 2 bottles
User's Manual	FTS-B010	1

## Protection Sleeves

### Description

FITEC offers a wide variety of protection sleeves to accommodate single and ribbon fiber. FITEC's protection sleeves come in ribbon, standard, slim, mini, and macro sizes. They are composed of an outer an inner sleeve reinforced by an internal member made of stainless steel or ceramics.



## Model, specification and applicable fiber

Model	Applicable fiber	Length	Material of strength member	Pieces /pack
<b>Nomal size</b>				
S921	Single fiber, 0.25-0.9mm coating diameter	60mm	Stainless steel	25
S922	Single fiber, 0.25-0.9mm coating diameter	40mm	Stainless steel	25
S924	Single fiber and up to 8-fiber ribbon	40mm	Quartz	25
S927A	Single fiber and up to 8-fiber ribbon	40mm	Ceramic	100
S927B	Single fiber and up to 12-fiber ribbon	40mm	Ceramic	100
<b>Mini Sleeve (For short cleave length and compact sleeve size)</b>				
S928A20	Single fiber	20mm	Stainless steel	100
S928A25	0.25-0.4mm	25mm	Stainless steel	100
S928A35	coating diameter	35mm	Stainless steel	100

## S42X Fusion Splicer Tool Kits

### Description

The **S42X** Series Fusion Splicer Tool Kit contains all of the necessary tools required for optical fusion splicing in a rugged carrying case. The durable carrying case features separate compartments for organizing tools and consumables.



Contents	Quantity	Model Name		
		S422	S423	S424
S210 Single Fiber Stripper	1	○	○	○
Carrying case	1	○	○	○
250cc Polyethylene bottle with siphon	1	○	○	○
Cleaning cotton for optical fiber	1	○	○	○
Cotton stick for cleaning V-groove, lens, mirror	1	○	○	○
Blower brush for cleaning V-groove, lens, mirror	1	○	○	○
Precision screw driver set and hexagonal wrench set	1	○	○	○
Electrode sharpener	2	○	○	○
S310 Single Fiber Cleaver	1	○		
S325A High Precision Cleaver	1		○	○
S218R Thermal Stripper	1			○

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