

Hand-Held Fusion Splicer

NEW



S123C ver.2 NEW Features

The S123C Hand-Held Clad-Alignment Fusion Splicer has been enhanced and updated to version 2. The battery is automatically charged internally when connected to AC mains power even during operation. The new illumination lamp lights up a wide area around the V-grooves and helps operation in low light environment. The redesigned and strengthened heater simplifies the protection sleeve loading process. Splicing Drop/Indoor cable is possible with newly designed kits.

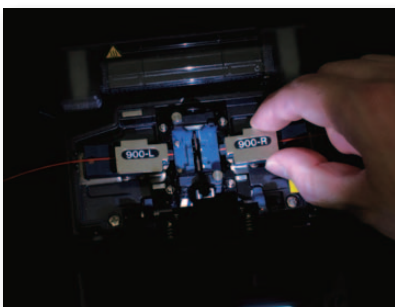


Features and Applications

With its low profile design and light weight body the S123C offers single fiber splicing with outstanding mobility and extreme ease-of-use. In addition, the rugged body is designed to endure harsh operating conditions by improving shock/impact resistance with rubber pads embedded on 4 corners of the splicer body. It achieves water resistance compliant IPX2 and dust resistance compliant IP5X.

The fast 13 seconds splice time and 25 seconds protection sleeve shrink time offers a highly efficient work environment. Large battery capacity makes it possible to perform 70 cycles of splicing and heating, while it offers SOC solution as well.

By combining portability, ease of use, improved speed and durability, the S123C becomes an excellent option for use in the conventional telecommunications industry.



Key Features

NEW Internal battery charging

NEW Illumination lamp lights up a wide area around V-grooves

- **IP-52 - Rugged and compact hand held design** for demanding environmental conditions
- **Fast splice (13 sec)** at low loss and **Fast Heating (25 sec)** for single fiber^{*1}
- **Simple operation** with Fixed V-groove
- **Splicer is compatible with the Seikoh Giken and Diamond Splice-on-connector (SOC)**
- **70 cycles (Splicing & Heating)** ^{*2}
- **Available for All METRO/LAN/FTTx fibers** including **ultra bend-insensitive fibers** (e.g. EZ-Bend)
- **Easy maintenance** - Toolless electrode replacement/mirror free alignment system
- **Easy Software upgrade** via the Internet
- **Easily exchanged fiber holder systems** (tight holder/fiber holder/SOC holder)

NEW Splicing Drop/Indoor cable is available

- **PC interface software** to allow user manage splicing programs and results
- **Auto-start** shrink sleeve oven feature

NEW Improved GUI to further enhance ease-of-use

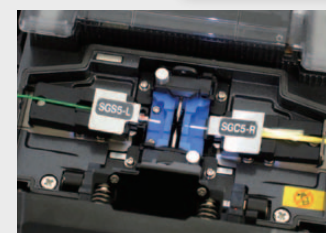
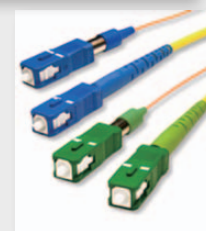
- **RoHS compliant**

^{*1} By using semi-auto mode for splicing and pre-heating mode for heating.

^{*2} By using semi-auto mode for splicing and regular mode for heating.



FITEL Splicer SOC partners



Under Tough Environment

S123C passed criteria as below ^{*3}

Drop Resistance

76 cm drops from 5 different angles



Water Resistance

IPX2 rating drip proof ^{*4}



Dust Resistance

IP5X rating dust proof ^{*5}



^{*3} Above tests were performed at Furukawa Electric Labs, and do not guarantee that the machine will be undamaged under these conditions.

^{*4} IPX2 rating drip proof means that the machine can be exposed to 3 mm/min drip from 4 different angles with 15° tilt for 2.5 min each and still functions.

^{*5} IP5X rating dust proof means that the machine can be exposed to dust particles with a diameter of 0.1 to 25 µm for 8 hours and still functions.

SPECIFICATIONS

Applicable Fibers	SM (ITU-T G.652), MM (ITU-T G.651), DSF (ITU-T G.653), NZD (ITU-T G.655), BIF/UBIF (Bend Insensitive Fiber ITU-T G.657)
Cladding Diameter	125 μ m
Coating Diameter	250 to 900 μ m
Fibers Cleave Length	5 to 10 mm or 16 mm
Average Splice Loss	SM: 0.05 dB, MM: 0.02 dB, DSF 0.08 dB, NZD 0.08 dB
Splice Time	13 seconds
Heat Time	25 seconds * ⁶ (S922: 40 mm sleeve, S921: 60 mm sleeve) (Pre-heat mode) 31 seconds * ⁶ (S922: 40 mm sleeve, S921: 60 mm sleeve) (Regular mode)
Splice Programs	Max. 150
Heat Programs	Max. 18
Automatic Heating Start	Available
Applicable Sleeves	20/40/60 mm
Fiber Holding	Tight holder (Loose tube applicable) or Removal fiber holder system
Tension Test	1.96 N
Return Loss of Splice	60 dB or more
Fiber Image Magnification	58X
Splice Memory	Max. 1500
Image Capture Capacity	Last 100 images to be automatically captured + Up to 24 images to be stored permanently
Dimension	127W \times 199D \times 81H mm (not including shock absorber) 159W \times 231D \times 104H mm (including shock absorber)
Weight	1.4 kg (without battery), 1.6 kg (with battery)
Monitor	3.5" color LCD monitor
Data Output	USB ver. 2.0 mini
Battery Capacity ^{*7}	Typical 70 splice/heat cycles with S943B battery
Wind Protection	Max. wind velocity of 15 m/s.
Operating Temperature	-10 to 50°C (without excessive humidity)
Storage Temperature	-40 to 60°C (without excessive humidity)
Humidity	0 to 95% RH (non-condensing)
Power Source	AC input 100 to 240 V (50/60 Hz), DC Input 11 to 17 V without any change of hardware

*6 The first heating after turning on the power can be longer than usual heating time.

*7 The number of the splicing and heating the machine can produce using a full charged battery at room temperature of 20°C, semi-auto mode for splicing and regular mode for heating. Depending on the condition of the battery and the operation environment, the number can vary.

STANDARD PACKAGE

Item	P/N	Quantity	
		S123C-A	S123C-B
① S123C Main Body	S123C-X-A-0001	1	1
② Soft Carrying Case	SCC-01	1	—
③ Hard Carrying Case	HCC-02	—	1
④ Battery Pack	S943B	1	1
⑤ Spare Electrodes	S969	1pair	1pair
⑥ AC Adaptor for S123C and S958C	S976A	1	1
⑦ AC Cable Cord	—	1	1
⑧ Electrode Sharpener	D5111	1	1
⑨ Cleaning Brush	VGC-01	1	1
⑩ Tool Case	TCC-01	1	1
User Manual	—	1	1



OPTIONAL COMPONENTS

Item	P/N	Quantity
① Soft Carrying Case	SCC-01	1
② Battery Charger	S958C	1
③ AC Adaptor for S958C	S977A	1
④ Cooling Tray	CTX-01	1
⑤ Angled Stand	AGS-01	1
⑥ Working Belt	WBT-01	1
⑦ USB Cable	USB-01	1
⑧ Car Cigarette Cable	CDC-01	1
⑨ Tripod Adaptor	TPA-01	1
⑩ Tight Holder		
16 mm Cleave length	S712T-016	1pair
10 mm Cleave length	S712T-010	1pair
⑪ Fiber Holder		
250 μ m coating diameter fiber	S712S-250	1pair
500 μ m coating diameter fiber**	S712S-500	1pair
900 μ m coating diameter fiber	S712S-900	1pair
Loose Tube Fiber (Left side)	S712S-LT-L	1
Loose Tube Fiber (Right side)	S712S-LT-R	1
⑫ SOC Holders		
<For Ferrule>		
Seikoh Giken FC/SC connector (9 mm)	S712C-SGS9-L	1
Seikoh Giken FC/SC connector (5 mm)	S712C-SGS5-L	1
Seikoh Giken LC connector (9 mm)	S712C-SGL9-L	1
Seikoh Giken LC connector (5 mm)	S712C-SGL5-L	1
Diamond E-2000™/F-3000™ LC/SC connector	S712C-DM25-L	1
<For Cordage>		
Seikoh Giken Cordage (5 mm)	S712C-SGC5-R	1
Seikoh Giken Cordage (9 mm)	S712C-SGC9-R	1
Diamond Cordage (5 mm cleave, 1.8 to 3 mm cordage)	S712C-DMC5-R	1
<Tool>		
Diamond Mount	WTX-01	1
⑬ Drop/Indoor Cable Holders		
Drop/Indoor Cable Holder	S712S-1SM-D	1pair
Low-friction Indoor Cable Holder	S712S-1SM-ST	1pair
⑭ Fiber Transporter	TRP-03	1
⑮ Fiber Transporter Holder	TRH-01	1
Smart Fuse		
Software Interface for Machine	SF-01	1

*8 Used for 400 to 500 μ m coating diameter fiber.



⑭ ⑮ Fiber Transporter in Action



⑤ Angled Stand in Action



⑥ -1 Working Belt in Action



⑥ -2 Working Belt in Action

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