

FiTeL S123 M12 Specs Provided by www.AAATesters.com





S123 Series



FITEL New Fusion Splicer

With its low profile and IP-52 rated super rugged body, the FITEL S123 series fusion splicer offers speedy operation in every splicing field, FTTx, LAN, backbone or long-haul installations.

Large battery capacity makes it possible to perform 70 cycles for S123C/M4 with a single battery, and 160 cycles for S123M8/M12 with two batteries.

Combining portability, power flexibility and field ruggedness, the S123 delivers fast and consistent splicing with outstanding mobility and extreme ease-of-use.

PRODUCT LINE UP					
Model	Application				
S123C-A	Splicing for single fiber (with Soft Case)				
S123C-B	Splicing for single fiber (with Hard Case)				
S123M4-A	Splicing for single to 4 ribbon fiber (with Soft Case)				
S123M4-B	Splicing for single to 4 ribbon fiber (with Hard Case)				
S123M8	Splicing for single to 8 ribbon fiber				
S123M12	Splicing for single to 12 ribbon fiber				











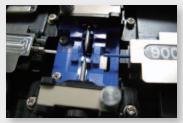
Furukawa Electric



Key Features

- 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 Spliceon-connector (SOC)²
- **70 cycles (Splicing & Heating)** for S123C/M4 with a single battery, and **160 cycles** for S123M8/M12 with two batteries^{*3}
- 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)
- PC interface software to allow user manage splicing programs and results
- · Auto-start shrink sleeve oven feature
- · 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 S123M4/M8/M12 are compatible with Seikoh Giken 9 mm cleave length connector only.
- *3 By using semi-auto mode for splicing and regular mode for heating.

©Compatible with Splice-on-connector (SOC)





OFITEL Splicer SOC partners





Under Tough Environment

S123 series passed criteria as below *4

Drop Resistance76 cm drops from 5 different angles



Water Resistance



Dust Resistance
IP5X rating dust proof *6



- *4 Above tests were performed at Furukawa Electric Labs, and do not guarantee that the machine will be undamaged under these conditions.
- *5 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.
- *6 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	SM (ITU-T G.652), MM (ITU-T G.651), DSF (ITU-T G.653),				
Applicable Fibers	NZD (ITU-T G655), BIF/UBIF (Bend Insensitive Fiber ITU-T G.657)				
Cladding Diameter	125 μm				
Coating Diameter	250 to 900 μ m for single fiber, 280 to 400 μ m for ribbon (thickness) [S123M4, S123M8, S123M12]				
Fibers Cleave Length	5 to 10 mm [S123C], 10 mm [S123M4, S123M8, S123M12]				
Average Splice Loss	SM: 0.05 dB, MM: 0.03 dB, DSF 0.08 dB, NZD 0.08 dB				
Splice Time	Single fiber: 13 seconds Ribbon fiber: 15 seconds				
Heat Time	Single fiber: 25 seconds (S922: 40 mm sleeve, S921: 60 mm sleeve) (Pre-heatmode) ¹⁷ [S123C, S123M-Ribbon fiber: 35 seconds (S924: 40 mm sleeve) (Pre-heat mode) ¹⁷				
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 Fiber holder system [S123C] Fiber holder system [S123M4, S123M8, S123M12]				
Tension Test	1.96 N				
Return Loss of Splice	60 dB or more				
Fiber Image Magnification	58X [S123C], 48X [S123M4], 28X [S123M8], 20X [S123M12]				
Splice Memory	Max. 1500 [S123C, S123M4], Max. 1000 [S123M8, S123M12]				
Image Capture Capacity	Last 100 images to be automatically captured + Up to 24 images to be stored permanently				
Dimension	S123C, S123M4: $127W \times 199D \times 81H$ mm (not including shock absorber) $159W \times 231D \times 104H$ mm (including shock absorber) S123M8, S123M12: $127W \times 199D \times 105H$ mm (not including shock absorber) $159W \times 231D \times 130H$ mm (including shock absorber)				
Weight	S123C, S123M4: 1.4 kg (without battery), 1.6 kg (with S943B battery) S123M8, S123M12: 1.6 kg (without battery), 2.0 kg (with two S943B batteries)				
Monitor	3.5" color LCD monitor				
Data Output	USB ver. 2.0 mini				
Displaying Language	20 languages				
Battery Capacity*7	Typical 70 splice/heat cycles with S943B battery [S123C, S123M4]*8 Typical 160 splice/heat cycles with two S943 batteries [S123M8, S123M12]*9				
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				

^{*9} The number of the splicing and heating the machine can produce using two full charged batteries at room temperature of 20°C, semi-auto mode for splicing and regular mode for heating. Depending on the condition of the batteries and the operation environment, the number can vary.



Item	P/N	Quantity						
Itelli	F/IN	S123C-A	S123C-B	S123M4-A	S123M4-B	S123M8	\$123M12	
S123C Main Body	S123-C-A-0001	1	1	_	_	_	_	
S123M4 Main Body	S123-M4-A-0001	_	_	1	1	_	_	
S123M8 Main Body	S123-M8-0001	_	_	_	_	1	_	
S123M12 Main Body	S123-M12-0001	_	_	_	_	_	1	
Soft Carrying Case	SCC-01	1	_	1	_	_	_	
Hard Carrying Case	HCC-01	_	_	_	_	1	1	
Hard Carrying Case	HCC-02	_	1	_	1	_	_	
Battery Pack	S943B	1	1	1	1	1 or 2	1 or 2	
Battery Charger	S958B	1	1	1	1	1	1	
Spare Electrodes	S969	1	1	1	1	1	1	
AC Adaptor for S123C/M4	S976A	1	1	1	1	1	1	
AC Adaptor for S958B Output Description: Output Descripti	S977A	1	1	1	1	1	1	
AC Cable Cord	_	2	2	2	2	2	2	
© Electrode Sharpener	D5111	1	1	1	1	1	1	
① Cleaning Brush	VGC-01	1	1	1	1	1	1	
P Fiber Reformer (4)	S122-X-A-0004	_	_	1pair	1pair	_	_	
P Fiber Reformer (8/12)	S122-X-A-0008	_	_	_	_	1pair	1pair	
User Manual	_	1	1	1	1	1	1	





6 Spare Electrodes









1 Electrode Sharpener

Cleaning
 Brush

^{*7} The first heating after turning on the power can be longer than usual heating time.
*8 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.



OPTIONAL COMPONENTS							
Item	P/N	Quantity					
Soft Carrying Case	SCC-01	1					
Cooling Tray	CTX-01	1					
Angled Stand	AGS-01	1					
Working Belt	WBT-01	1					
• USB Cable	USB-01	1					
6 Car Cigarette Cable	CDC-01	1					
Tight Holder16 mm Cleave length10 mm Cleave length	S712T-016 S712T-010	1pair 1pair					
S Fiber Holder 250 μm coating diameter fiber 500 μm coating diameter fiber*10 900 μm coating diameter fiber 2 Ribbon Fiber Holder 4 Ribbon Fiber Holder 8 Ribbon Fiber Holder 12 Ribbon Fiber Holder Loose Tube Fiber (Left side) Loose Tube Fiber (Right side)**11	S712S-250 S712S-500 S712S-900 S712A-002 S712A-004 S712A-008 S712A-012 S712S-LT-L S712S-LT-R	1pair 1pair 1pair 1pair 1pair 1pair 1pair 1pair					
© SOC Holders <for ferrule=""> Seiko Giken FC/SC connector (9 mm) Seiko Giken FC/SC connector (5 mm) Seiko Giken LC connector (9 mm) Seiko Giken LC connector (5 mm) Diamond E-2000™/F-3000™ LC/SC connector <for cordage=""> Seiko Giken Cordage (5 mm) Seiko Giken Cordage (9 mm) Diamond Cordage (5 mm cleave, 1.8~3 mm cordage) Tiamond Mount</for></for>	S712C-SGS9-L S712C-SGS5-L S712C-SGL9-L S712C-SGL5-L S712C-DM25-L S712C-SGC5-R S712C-SGC9-R S712-LT-R	1 1 1 1 1 1					
Smart Fuse Software Interface for Machine	SF-01	1					









3 Angled Stand in Action

4-1 Working Belt in Action

4-2 Working Belt in Action

- *10 Used for 400-500 μ m coating diameter fiber.
- *11 Also work as diamond cordage holder.
- *12 Also work as loose tube fiber holder (R).

Furukawa Electric Group strives to develop environmentally considerate products.



eFriendly Logo Mark

This logo mark indicates that the products and services satisfy the standards of environmentally friendly products of the Furukawa Electric Group.



Our Group has configured the environmental management system at each of our plants worldwide, and acquired ISO14001 certification.

Contact Us:

Furukawa Electric Co., Ltd. Head Office:

2-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo, 100-8322, Japan TEL: + 81 3 3286 3227 FAX: + 81 3 3286 3978 www.furukawa.co.jp comsales@ho.furukawa.co.jp

Europe: Furukawa Electric Europe, Ltd.

3rd Floor, Newcombe House 43-45 Notting Hill Gate, London W11 3FE U.K. TEL: + 44 20 7313 5320 FAX: + 44 20 7313 5310 www.furukawa.co.uk

sales@furukawa.co.uk

North & South America: OFS Fitel, LLC

2000 Northeast Expressway Norcross, Georgia 30071, U.S.A TOLL FREE: +1 866 452 9516 TEL: +1 678 783 1090 FAX: +1 678 783 1093 www.ofsoptics.com splicers@ofsoptics.com

China: Furukawa Shanghai, Ltd.

Room 1006, Hongyi Plaza, 288 Jiujiang Road, Shanghai 200001, P.R. China TEL: + 86 21 3366 5301 FAX: + 86 21 3366 5315 www.furukawa-sh.cn sales@furukawa-sh.com

South East Asia: Furukawa Electric Singapore Pte. Ltd.

10 Anson Road, #25-08 International Plaza, Singapore 079903 Tel: +65 6328 9870 Fax: +65 6224 2362 www.furukawa.com.sg comms@furukawa.com.sg

Export Control Regulations

The products and/or technical information presented in this publication may be subject to the application of the Foreign Exchange and Foreign Trade Act and other related laws and regulations in Japan.

In addition, the Export Administration Regulations (EAR) of the United States may be applicable.

In cases where exporting or reexporting the products and/or technical information presented in this publication, customers are requested to follow the necessary procedures at their own responsibility and cost.

Please contact the Ministry of Economy, Trade and Industry of Japan or the Department of Commerce of the United States for details about procedures.

- * Furukawa Electric reserves the right to improve, enhance, or modify the features and specificactions of FITEL products without prior notification.
- * Company and product names appearing in this catalogue are resisterd marks or trademarks of respective companies.