

## Ribbon Fiber Fusion Splicer

# s124 M12



**Up to 12-fiber ribbon splicing**

**High speed splicing of 15 seconds**

**Interchangeable V-groove system**

**200 µm coating fiber ribbon is applicable by changing V-groove**

**Easy operation with touch panel and GUI**

**3 LED lights allow convenient loading of fibers in V-groove**

**Wi-Fi Connection allows wireless control and data management**

## ■ Specifications

	SM (ITU-T G.652 / G.657A1 / G.657A2)
	MM (ITU-T G.651)
	DS (ITU-T G.653)
	NZD (ITU-T G.655)
	BIF (ITU-T G.657.A1/A2)
Fiber Count	Up to 12-fibers
Cladding diameter	125μm
Fiber coating diameter	Single fiber : 0.25mm, 0.9mm Ribbon fiber : Refer to Fiber Holder
Fiber cleaving length	10mm
Average splice loss <sup>*2</sup>	SM : 0.05dB MM : 0.03dB DS : 0.08dB NZD : 0.08dB BIF : 0.05dB
Typical splice time	12-fiber ribbon : 15sec. Single fiber : 13sec.
Typical heating time	12-fiber ribbon : 28sec. (S927R, power mode) 8-fiber ribbon : 14sec. (S924, power mode) Single fiber : 13sec (S921, power mode)
Splice program	Max. 300
Heat program	Max. 100
Applicable protection sleeve length	40mm / 60mm
Tension test	1.96N
Discharge compensation function	Automatic correction according to temperature and atmospheric pressure
Optical fiber viewing method	Two-way observation from X and Y axes
Monitor	4.3 inch wide LCD monitor with touch screen
Magnification	20X, 28X (in zooming), 56X (in zooming)
Splice result storage / Image capture capacity	Last 10,000 splices / Last 100 images to be automatically captured
Dimensions	139W x 209D x 114H mm not including shock absorber 179W x 246D x 131H mm including shock absorber
Weight	1.8kg (with battery)
Data output	USB ver.2 mini B x 1 port, Standard A x 1 port
Power source	AC : 100-240V (50/60Hz) DC : 11-24V
Battery capacity <sup>*3</sup>	170 splice and heating cycles
Operating condition	Altitude : 0-2,000m Wind protection : 15m/s Operating temperature : -10 to +50 °C (non-condensing)
Storage condition	-40 to +60 °C (non-condensing)

\*1 Corresponding to optical fiber in compliance with ITU-T recommendation.

\*2 This numerical number is the one when measured for the purpose to show the fusion splice characteristics in the testing method of IEC 61073-1, it is not the one to guarantee the splicing loss.

\*3 Number of times that the fusion splicing of the fiber and the heat reinforcement can be performed continuously at a rate of once a 90seconds at the room temperature (20°C) condition when using a new 100% charged battery. The number of times you can use depends on the state of the battery and usage.

## ■ Environmental Durability

Drop impact	Vertical drop test (5sides excluding the top side) is conducted from a height of 76cm and the normal operation is confirmed.
Impact protection	The normal operation is confirmed after dropping a 500grams weight of IK 07 grade from the height of 40cm onto the equipment.
Dustproof	The normal operation is confirmed after putting the equipment in a device containing dust of 25μm or less for 8hours.
Drip proof	The normal operation is confirmed after exposing water droplet of IPX 2 grade with 3mm/min to 4sides for 2.5min or more tilted by 15degree.

\* It is not the guarantee of no break or no failure of this product since the test is performed with the draft shield closed.

## ■ Standard Package

Item	Model No.	S124M12-3-0 (Q'ty)	S124M12-3-1 (Q'ty)
S124M12 main body	S124M12-X-A-0001	1	1
Hard carrying case	HCC-11	1	1
Battery pack	S947	1	1
Spare electrode	ELR-01	1 pair	1 pair
AC adapter	S979	1	1
AC power cord	—	1	1
Cooling tray	CTX-03	1	1
Fiber reformer (4 fiber)	FRF-01	1 pair	1 pair
Fiber reformer (8/12 fiber)	FRF-02	1 pair	1 pair
Cleaning brush	VGC-01	1	1
Electrode sharpener	D5111	1	1
Tool case	TCC-01	1	1
LCD antireflective sheet	ARS-01	1	1
Rubber foot	RBC-01	1 pair	1 pair
Quick Reference guide	FTS-B559	1	1
Instruction manual	UMC-03	1	1
Wi-Fi dongle	WFD-01	0	1

## ■ Optional components

Item	Model No.
Soft carrying case	SCC-01
Battery Charger	S980
Angled Stand	AGS-02
Strap plate	SPL-01
Work belt	WBT-01
USB cable	USB-01
Car cigarettes cable	CDC-04

## ■ Fiber holder

Item	Model No.
Fiber holder (0.25mm coating fiber)	S712S-250
Fiber holder (0.90mm coating fiber)	S712S-900
Fiber holder (2 fiber ribbon)	S712A-002
Fiber holder (4 fiber ribbon)	S712A-004
Fiber holder (6 fiber ribbon)	S712A-006
Fiber holder (8 fiber ribbon)	S712A-008
Fiber holder (12 fiber ribbon)	S712A-012
Fiber holder (12 fiber rollable ribbon)	S712A-12e
Fiber holder (12 fiber rollable ribbon, 200μm fiber coating)	S712A-12e-P200

## ■ Fiber Guide V-groove

Fiber count, pitch	Model No.	
	4 fiber	8 fiber
0.25mm pitch	FGV-04-P250	FGV-08-P250
	12 fiber	FGV-12-P250
0.2mm pitch	12 fiber	FGV-12-P200

## ■ Protection Sleeve

Model No.	Applicable Fiber	Length
S921	Single fiber, 0.25 - 0.9mm coating dia.	60mm
S922	Single fiber, 0.25 - 0.9mm coating dia.	40mm
S924	Single fiber and upto 8-fiber ribbon	40mm
S924F	12-fiber ribbon (Flat ribbon)	40mm
S927R	12-fiber ribbon (Rollable ribbon)	40mm

## 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  
fec.abr\_opt\_splicer@furukawaelectric.com

#### Europe:

Furukawa Electric Europe Ltd.  
Furukawa House  
77-85 Fulham Palace Road,  
London W6 8JD, U.K.  
Tel: + 44 (0) 20 7313 5300  
Fax: + 44 (0) 20 7313 5310  
www.furukawa.co.uk  
splicers@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.  
Beijing Branch  
Room 314, Beijing Fortune Building,  
No.5, North Dongsanhuanyuan Road,  
Beijing 100004 P.R. China  
Tel: + 86 10 8591 0608  
Fax: + 86 10 8591 0609  
www.furukawa-sh.cn

#### South East Asia:

Furukawa Electric Singapore  
Pte. Ltd.  
60 Albert Street, #13-10 OG  
Albert Complex, Singapore  
189969  
Tel: + 65 6224 4686  
Fax: + 65 6336 2635  
comms@furukawa.com.sg

\* Please understand that contents of this catalog may change without notice.

#### 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.