

Ribbon Fiber Fusion Splicer

S124M12



Up to 12-fiber ribbon splicing

High speed operation of 15 seconds fusion splicing and 17 seconds heat reinforcement

Fiber Curl Removal Function is available

Easy exchange in different diameter and different pitch V groove

Easy operation with touch panel and GUI mounting

Bright hand lighting function

Easy maintenance with removable V-groove

Excellent environmental resistance performance of rugged body

Wireless communication function using Wi-Fi

Password authentication function with NFC

Specifications

Applicable fibers*1		SM (ITU-T G.652 / G.657A1 / G.657A2)
		MM (ITU-T G.651)
		DS (ITU-T G.653)
		NZD (ITU-T G.655)
		UBIF (ITU-T G.657B3)
Fiber Count		Up to 12-fibers
Cladding diameter		125µm
Fiber coating diameter	Single fiber	25mm, 0.90mm option 0.20mm
	Ribbon fiber	0.25 to 0.40mm option 0.20mm
Fiber cleaving length		10mm
Average splice loss*2		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 : 17sec.
		Single fiber : 9sec.
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 observation method		Two-way observation from X and Y axes
Monitor		4.3 inch wide LCD monitor with touch screen
Magnification		24X magnification
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		2.0kg (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*3		170 splice and heating cycles
Electrode life*4		1,500 splice
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.

*4 The number of times will vary depending on the state of the electrode rod and the operating environment.

Drop impact resistance performance and environmental resistance performance

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.	S123M12-3-0 (Q'ty)	S123M12-3-1 (Q'ty)
S124M12 main body	S124M12-X-A-0001	1	1
Hard carrying case	HCC-05	1	1
Battery pack	S947	1	1
Spare electrode	ELR-01	1	1
AC adapter	S979	1	1
AC power cord	—	1	1
Cooling tray	CTX-03	1	1
Cleaning blush	VGC-01	1	1
Electrode sharpener	D5111	1	1
Tool case	TCC-01	1	1
LCD ant-reflective sheet	ARS-01	1	1
Quick Reference guide	FTS-558	1	1
Instruction manual	UMC-03	1	1
Wi-Fi dongle	WFD-01	0	1

Optional components

Item	Model No.	Q'ty
Soft carrying case	SCC-01	1
Battery Charger	S980	1
Angled Stand	AGS-02	1
Work belt	WBT-01	1
Neck Strap Work table	NSB-03	1
Neck Strap	NSB-04	1
Transport jig	TRP-07	1
Pedestal for transport holder	TRH-03	1
USB cable	USB-01	1
Car cigarettes cable	CDC-04	1

Fiber holder

	Model No.	Q'ty
Fiber holder (0.25mm coating fiber)	S712S-250	1 pair
Fiber holder (0.90mm coating fiber)	S712S-900	1 pair
Fiber holder (2 fiber ribbon)	S712A-002	1 pair
Fiber holder (4 fiber ribbon)	S712A-04e	1 pair
Fiber holder (6 fiber ribbon)	S712A-006	1 pair
Fiber holder (8 fiber ribbon)	S712A-08e	1 pair
Fiber holder (12 fiber ribbon)	S712A-12e	1 pair
1-fiber Drop cable holder	S712S-1SM-D	1 pair
2-fiber Drop cable holder	S712A-2SM-D	1 pair

Fiber Guide V-groove

	Model No.	Q'ty
250µm Pitch 12-fiber	FGV-P250	1
200µm Pitch 12-fiber	FGV-P200	1

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