

Ribbon Fiber Fusion Splicer

s124 **M16**



Up to 16-fiber 200 μm ribbon splicing

Interchangeable V-groove system

Suited for 250 μm and 200 μm pitch

12-fiber ribbons

Easy operation with touch panel and GUI

3 LED light allow convenient loading of fiber in V-groove

Wi-Fi Connection allows wireless control and data management

Specifications

Applicable fibers**	SM (ITU-T G.652.B/D)	
	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 16-fibers	
Cladding diameter	125 μm	
Fiber coating diameter	Single fiber	0.25 mm, 0.9 mm
	Ribbon fiber	200 μm, 250 μm (refer to fiber holder)
Fiber cleaving length	10 mm	
Average splice loss**	SM : 0.05 dB MM : 0.03 dB	
	DS : 0.08 dB NZD : 0.08 dB BIF : 0.05 dB	
	16-fiber ribbon : 23 sec. 12-fiber ribbon : 15 sec. Single fiber : 13 sec.	
Typical splice time	16-fiber ribbon : 28 sec. (S927R, power mode)	
	12-fiber ribbon : 28 sec. (S927R, power mode)	
	Single fiber : 13 sec. (S921, power mode)	
Typical heating time	16-fiber ribbon : 28 sec. (S927R, power mode) 12-fiber ribbon : 28 sec. (S927R, power mode) Single fiber : 13 sec. (S921, power mode)	
Splice program	Max. 300	
Heat program	Max. 100	
Applicable protection sleeve length	40 mm / 60 mm	
Tension test	1.96 N	
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	16X, 20X (in zooming), 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	1.8 kg (with battery)	
Data output	USB ver.2 mini B x 1 port, Standard A x 1 port	
Power source	AC : 100-240 V (50/60 Hz) DC : 11-24 V	
Battery capacity**	170 splice and heating cycles	
Operating condition	Altitude : 0-2,000 m (1-12-fibers), 0-1,000 m (16-fibers)	
	Wind protection : 15 m/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 90 seconds 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 (5 sides excluding the top side) is conducted from a height of 76 cm and the normal operation is confirmed.
Impact protection	The normal operation is confirmed after dropping a 500 grams weight of IK 07 grade from the height of 40 cm onto the equipment.
Dustproof	The normal operation is confirmed after putting the equipment in a device containing dust of 25 μm or less for 8 hours.
Drip proof	The normal operation is confirmed after exposing water droplet of IPX 2 grade with 3 mm/min to 4 sides for 2.5 min or more tilted by 15 degree.

* 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.	S124M16-30 (Q'ty)	S124M16-31 (Q'ty)
S124M16 main body	S124M16-X-A-0001	1	1
Hard carrying case	HCC-11	1	1
Battery pack	S947	1	1
12-fiber Fiber Guide	FVG-12-P250	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 (0.25 mm coating fiber)	S712S-250
Fiber holder (0.90 mm 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, 200 μm fiber coating)	S712A-12e-P200
Fiber holder (16 fiber rollable ribbon, 200 μm fiber coating)	S712A-16e-P200

Fiber Guide V-groove

Fiber count, pitch	Model No.	
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0.25mm pitch	4 fiber	FVG-04-P250
	8 fiber	FVG-08-P250
	12 fiber	FVG-12-P250
0.2mm pitch	12 fiber	FVG-12-P200
	16 fiber	FVG-16-P200

Protection Sleeve

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

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