

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

	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* ²	SM : 0.05 dB MM : 0.03 dB DS : 0.08 dB NZD : 0.08 dB BIF : 0.05 dB
Typical splice time	16-fiber ribbon : 23 sec. 12-fiber ribbon : 15 sec. Single fiber : 13 sec.
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* ³	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.
0.25mm pitch	4 fiber
	8 fiber
	12 fiber
	FVG-12-P250
0.2mm pitch	12 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) 16-fiber ribbon (Rollable ribbon)	40 mm

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