

Ribbon Fiber Fusion Splicer

s124 **M8**



Up to 8-fiber ribbon splicing

High speed splicing of 15 seconds

High speed heating of 14 seconds

Interchangeable V-groove system

Easy operation with touch panel and GUI

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

Automatic Fiber offset correction function available

Wi-Fi connection allows wireless control and data management

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) | |
| | BIF (ITU-T G.657.A1/A2) | |
| Fiber Count | Up to 8-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 ^{*2} | SM : 0.05dB MM : 0.03dB | |
| | DS : 0.08dB NZD : 0.08dB BIF : 0.05dB | |
| | 8-fiber ribbon : 15sec. | |
| Typical splice time | Single fiber : 13sec. | |
| | 8-fiber ribbon : 14sec. (S924, power mode) | |
| Typical heating time | Single fiber : 13sec (S921, power mode) | |
| | 8-fiber ribbon : 14sec. (S924, 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 | 28X, 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 ^{*3} | 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. | S124M8-3-0 (Q'ty) | S124M8-3-1 (Q'ty) |
|---------------------------|-----------------|-------------------|-------------------|
| S124M8 main body | S124M8-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 (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 Guide V-groove

| Fiber count, pitch | Model No. | |
|--------------------|--------------|-------------|
| | 0.25mm pitch | 4 fiber |
| | 8 fiber | FGV-08-P250 |

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 |

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