

Ribbon Fiber Arc Fusion Splicer

FSM-18R

Rain
Resistant

Dust
Resistant

Shock
Resistant



Features

- Up to 4-fiber ribbon splicing.
- Cladding alignment with fixed v-grooves.
- Environmental resistant features.
- Arc calibration-free system.
- 4.1" TFT color LCD monitor.
- Dual directional operation system.
- Long life battery.
- Software upgrade via Internet.
- Detachable work table
(attached to carrying case).



SPECIFICATIONS

| | |
|-----------------------------------|--|
| Applicable type of fibers | SM (ITU-T G.652) , MM (ITU-T G.651) , DS (ITU-T G.653) , NZDS (ITU-T G.655) |
| Fiber count | Single, 2 and 4 |
| Applicable fiber dimensions | Ribbon : Cladding diameter 125 μ m, Ribbon fiber thickness 0.25 to 0.4mm Single : Cladding diameter 125 μ m, Coating diameter 250 μ m and 900 μ m |
| Fiber cleaved length | 10mm |
| Splicing modes | Total 100 modes |
| Typical splice loss | 0.05dB with SM, 0.02dB with MM, 0.08dB with DS, 0.08dB with NZDS. (Measured by cut-back method relevant to ITU-T standard) . |
| Return loss | >>60dB |
| Splicing time | Typical 20sec. with standard SM (ITU-T G.652) |
| Splice loss estimate | Available |
| Tube heater / heating time | Built-in tube heater with 30 heating modes. / Typical 40sec with Fujikura FP-04T and 50sec with FP-05. |
| Applicable protection sleeve | 60mm, 40mm and Fujikura FPS01 series |
| Storage of splice result | The last 2000 results to be stored in the internal memory. |
| Tension test | 1.96 to 2.25N |
| Operating condition | 0 to 5000m above sea level, 0 to 95%RH and -10 to 50 degC and up to 15m/s wind velocity, respectively. |
| Storage condition | 0 to 95%RH and -40 to 80 degC respectively. Battery : -20 to 30 degC for long term. |
| Dimensions | 136W×161D×143H [mm] excluding rubber foot. |
| Weight | 2.1kg with AC adapter ADC-13, 2.5kg with battery BTR-08. |
| Viewing method and display | Two CMOS cameras and 4.1" color LCD monitor. |
| Fiber view and magnification | X / Y (90X magnification) , or both X and Y simultaneously (90X magnification) . |
| No. of splice cycles with battery | Typical 90 cycles (splice / tube heat) with BTR-08. |
| Power supply | Applicable voltage from 100 to 240V AC or 10 to 15V DC with ADC-13. 13.2V DC with BTR-08. |
| Electrode life | 1500 arc-discharges |
| Terminals | USB 1.1 (Mini-B type) connector for PC communication. 6-pin Mini-DIN connector for HJS-02, HJS-03 or SH-8C power supply. |

STANDARD PACKAGE

| Description | Model No. | Q'ty |
|------------------------------|---------------------------|-------|
| Arc Fusion Splicer | FSM-18R | 1pc. |
| | With ELCT2-20A and WPM-08 | |
| AC adapter / battery charger | ADC-13 | 1pc. |
| AC power cord | ACC-XX | 1pc. |
| Spare electrodes | ELCT2-20A | 1pair |
| USB cable | USB-01 | 1pc. |
| Quick reference guide | M-60R/18R-E | 1pc. |
| Video instruction manual | V-18R-E | 1pc. |
| Warnings and Cautions | W-60-E | 1pc. |
| J plate | JP-05 | 1pc. |
| Carrying case | CC-24-18R | 1pc. |

OPTIONAL ITEMS

| Description | Model No. |
|-----------------------|--|
| Battery pack | BTR-08 |
| Battery charge cord | DCC-14 |
| DC power cord | DCC-12 (for cigar-socket) DCC-13 (with alligator clamp) |
| Magnifier | MG5-06 |
| Electrodes | ELCT2-20A |
| Wind protector mirror | WPM-08 |

ACCESSORIES

| Description | Model No. |
|------------------------------|--|
| High precision fiber cleaver | CT-30 |
| Primary coat stripper | PS-02 |
| Nylon jacket stripper | JS-01 |
| Hot jacket stripper | HJS-02, HJS-03 |
| External tube heater | SH-8C (for FuseConnect™ option) |
| Alcohol dispenser | HR-2 |
| Protection sleeve | FP-03 / 03 (L=40) , FP-04 (T) , FP-05 and FPS01 series |

OPTIONAL FIBER HOLDERS

| Fiber | Single (250 μ m) | Single (900 μ m) | 2-fiber ribbon | 4-fiber ribbon |
|-----------|------------------------|------------------------|----------------|----------------|
| Model No. | FH-50-250 FH-60-250 | FH-50-900 FH-60-900 | FH-50-2 | FH-50-4 |

RESISTANCE FEATURES

| Description | Detail |
|------------------|---|
| Shock resistance | 76cm (30inch) bottom surface drop.*1 |
| Dust resistance | Exposure to dust (0.1 to 500mm dia. Alumina Silicate) .*1 |
| Rain resistance | R=10mm/h for 10min.*1 |

*1: Carried out in Fujikura labs in Japan. The shock resistance, dust resistance and rain resistance test do not guarantee that the product will not be damaged under these conditions."

STANDARD PACKAGE & OPTIONAL ITEMS



TOP VIEW



MG5-06



DETACHABLE WORK TABLE



Specifications and descriptions are subject to change without prior notice.

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