Single Fiber Arc Fusion Splicer

FSM-18S

Features
- Single fiber 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).

Rain Resistant

Dust Resistant

Shock Resistant
Single Fiber Arc Fusion Splicer FSM-18S

SPECIFICATIONS

Applicable type of fibers

Fiber count
Single

Applicable fiber dimensions
Cladding diameter : 125μm,
Coating diameter 250 to 1000μm

Fiber setting and cleaved length
Sheath clamping A (standard) : For coating dia. up to 250μm (8 to 16mm cleave), coating dia. over 250μm (16μm cleave)
Sheath clamping B (option) : For coating dia. up to 1000μm (8 to 16mm cleave)
Sheath clamping D (option) : For 900μm dia. loose tube fiber (8 to 16mm cleave)
Fiber holder (option) : FH-60-250, FH-60-900 and FH-60-LT900 (10mm cleave)

Splicing modes
Total 100 modes

Typical splice loss
0.02dB 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 11sec. with standard SM (ITU-T G.652)

Splice loss estimate
Available

Tube heater / heating time
Built-in tube heater with 30 heating modes. / Typical 30sec with Fujikura FP-03.

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 3600m 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 adaptor ADC-13, 2.5kg with battery BT-08.

Viewing method and display
Two CMOS cameras and 4.1” color LCD monitor.

Fiber view and magnification
X / Y (300X magnification), or both X and Y simultaneously (187X magnification).

No.of splice cycles with battery
Typical 150 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
2000 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

<table>
<thead>
<tr>
<th>Description</th>
<th>Model No.</th>
<th>Qty</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arc Fusion Splicer</td>
<td>FSM-18S</td>
<td></td>
</tr>
<tr>
<td>With ClAMP-S60A, ELCT2-20A and WPM-08</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AC power cord</td>
<td>ADC-13</td>
<td>1pc</td>
</tr>
<tr>
<td>Spare electrodes</td>
<td>ELCT2-20A</td>
<td>1pair</td>
</tr>
<tr>
<td>USB cable</td>
<td>USB-01</td>
<td>1pc</td>
</tr>
<tr>
<td>Quick reference guide</td>
<td>M-605/18S-E</td>
<td>1pc</td>
</tr>
<tr>
<td>Video instruction manual</td>
<td>V-185-E</td>
<td>1pc</td>
</tr>
<tr>
<td>Warnings and Cautions</td>
<td>W-60-E</td>
<td>1pc</td>
</tr>
<tr>
<td>J plate</td>
<td>JP-05</td>
<td>1pc</td>
</tr>
<tr>
<td>Carrying case</td>
<td>CC-24-18S</td>
<td>1pc</td>
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</table>

OPTIONAL ITEMS

<table>
<thead>
<tr>
<th>Description</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiber holder *1</td>
<td>FH-60-250 ( coating dia. of 250μm )</td>
</tr>
<tr>
<td>Sheath clamping *1</td>
<td>CLAMP-S60A (standard package)</td>
</tr>
<tr>
<td>Battery pack</td>
<td>BTR-08</td>
</tr>
<tr>
<td>DC power cord</td>
<td>DCC-12</td>
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<tr>
<td>DC power cord</td>
<td>DCC-13</td>
</tr>
<tr>
<td>Magnifier</td>
<td>MGS-04</td>
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<tr>
<td>Electrodes</td>
<td>ELCT2-20A</td>
</tr>
<tr>
<td>Wind protector mirror</td>
<td>WPM-08</td>
</tr>
</tbody>
</table>

*1 See “Fiber cleaved length” in SPECIFICATIONS for detail.

RESISTANCE FEATURES

<table>
<thead>
<tr>
<th>Description</th>
<th>Detail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shock resistance</td>
<td>76cm (30inch) : bottom surface drop.*2</td>
</tr>
<tr>
<td>Dust resistance</td>
<td>Exposure to dust (0.1 to 500μm dia. Alumina Silicate).*2</td>
</tr>
<tr>
<td>Rain resistance</td>
<td>H=10mmH2O for 10min.*2</td>
</tr>
</tbody>
</table>

*2 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

ACCESSORIES

<table>
<thead>
<tr>
<th>Description</th>
<th>Model No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>High precision fiber cleaver</td>
<td>CT-30 series</td>
</tr>
<tr>
<td>Primary coat stripper</td>
<td>PS-02</td>
</tr>
<tr>
<td>Nylon jacket stripper</td>
<td>JS-01</td>
</tr>
<tr>
<td>Hot jacket stripper</td>
<td>HJS-02, HJS-03</td>
</tr>
<tr>
<td>External tube heater</td>
<td>SH-8C (for FuseConnect™ option)</td>
</tr>
<tr>
<td>Alcohol dispenser</td>
<td>HR-2</td>
</tr>
<tr>
<td>Protection sleeve</td>
<td>FP-03 / FP-14 / FP-01 series</td>
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</table>

Specifications and descriptions are subject to change without prior notice.

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Fujikura Asia Ltd.

Fujikura Europe Ltd.

AFL Telecommunications

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913-10-0663-142-95-01

Printed in Japan 0804-1203-1000-DNP