



**Manufacturer:**  
AFL  
**Product Name:**  
AFL FSM-90R 16 Fiber Fusion Splicer (battery)  
**Manufacturer Part Number:**  
S017540

▶ Click here for more details on the AFL FSM-90R 16 Fiber Fusion Splicer (battery)

## Fujikura 90R Fusion Splicer

The Fujikura 90R is the mass fusion splicer workhorse of the splicing world. As data demand continues to rise, the solution to handle the increased traffic is to increase fiber counts. As a result, fiber counts being utilized in enterprise data centers, campus, and metro networks have grown enough to make single fiber splicing too costly and timely. High density cabling made possible by SpiderWeb Ribbon® (SWR®) and others like it are spurring ribbon splicing activity in places that have traditionally used loose fiber. The 90R is the answer to these changes in splicing demand.

With automated splice start, tube heater, wind protector, cleave tracking, and blade rotations for up to 2 cleavers at a time, this splicer frees up operator time for other fiber preparation steps. With 16-fiber add-ons, the Fujikura 90R splicer enables customers to successfully splice 16-count ribbon fibers with a 200 µm pitch and size.

With the Fujikura 90R, you can keep your splicer in the field longer with field replaceable V-grooves. When V-grooves can no longer be cleaned after extended use, or are accidentally damaged, you can resume splicing in minutes by installing the spare set included with your 90R kit.

### Features

- Cleave tracking and upkeep with wireless communication
- Automated wind protector, tube heater and splice operation
- User replaceable V-grooves
- 200 µm and 250 µm SWR universal ribbon prep accessories
- Graphical User Interface with 5.0" Touchscreen
- PC software and 90R manual downloaded from splicer
- Multi-function transit case with integrated workstation

### Applications

- Data Center cable installation
- High fiber count metro and campus networks
- Long-haul network installs and repair
- Trunk cable repair with Splice-on MPOs
- Ribbon splicing high density cables with 200 µm loose fiber



Bluetooth

90R



In Work Tray



Wind Protector Open

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## Fujikura 90R Fusion Splicer

### Ordering Information

| DESCRIPTION  | AFL NO. |
|--|---------|
| <b>Fujikura 90R Fusion Splicer (machine only) includes:</b> BTR-15 Battery, ADC-20 AC Adapter, ACC-14 AC Cord, ELCT2-16B Spare Electrodes (pair) with spare V-Grooves (VG12-01), FH-70-12 Fiber Holders (pair), USB Cable, Alcohol Dispenser, Quick Reference Guide, TS-03 Tripod Screw, Video Instruction Manual, Work Tray, CC-39 Transit Case, and Two-year Warranty  | S017509 |
| <b>Fujikura 90R Standard Fusion Splicer Kit (with cleaver &amp; thermal stripper) includes:</b> BTR-15 Battery, CT50 Cleaver, RS03 Stripper, ADC-20 AC Adapter, ACC-14 AC Cord, ELCT2-16B Spare Electrodes (pair) with spare V-Grooves (VG12-01), FH-70-12 Fiber Holders (pair), USB Cable, Alcohol Dispenser, Quick Reference Guide, TS-03 Tripod Screw, Video Instruction Manual, CC-39 Transit Case and Two-year Warranty           | S017511 |
| <b>Fujikura 90R Fusion Splicer without Bluetooth (machine only) includes:</b> BTR-15 Battery, ADC-20 AC Adapter, ACC-14 AC Cord, ELCT2-16B Spare Electrodes (pair) with spare V-Grooves (VG12-01), FH-70-12 Fiber Holders (pair), USB Cable, Alcohol Dispenser, Quick Reference Guide, TS-03 Tripod Screw, Video Instruction Manual, CC-39 Transit Case, and Two-year Warranty   | S017540 |
| <b>Fujikura 90R Fusion Splicer Kit without Bluetooth (with cleaver &amp; thermal stripper) includes:</b> BTR-15 Battery, CT50 Cleaver, RS01 Stripper, ADC-20 AC Adapter, ACC-14 AC Cord, ELCT2-16B Spare Electrodes (pair) with spare V-Grooves (VG12-01), FH-70-12 Fiber Holders (pair), USB Cable, Alcohol Dispenser, Quick Reference Guide, TS-03 Tripod Screw, Video Instruction Manual, CC-39 Transit Case, and Two-year Warranty | S017510 |

### Recommended Products for the 90R

| DESCRIPTION                                  | AFL NO. | DESCRIPTION  | AFL NO. |
|--|---------|--|---------|
| <b>Cleavers and Strippers</b>                |         | <b>Miscellaneous</b>                               |         |
| CT50 Cleaver                                 | S017030 | ELCT2-16B Electrodes                               | S017103 |
| RS02 Thermal Stripper                        | S016816 | FST-12 Fiber Separation Tool                       | S014012 |
| RS03 Thermal Stripper                        | S016817 | FAT-04 Fiber Arrangement Tool                      | S010212 |
| <b>Fiber Holders (pair)</b>                  |         | FAA-03A Ribbon Forming Adhesive (4 oz. bottle)     | S008720 |
| FH-70-2                                      | S017114 | FAA-03A Ribbon Forming Adhesive (0.5 liter bottle) | S008622 |
| FH-70-4                                      | S017115 | Splicer V-groove Cleaning Kit                      | S014397 |
| FH-70-6                                      | S017116 |  |         |
| FH-70-8                                      | S017117 |  |         |
| FH-70-10                                     | S017118 |  |         |
| FH-70-12                                     | S017119 |  |         |
| FH-70-16                                     | S017533 |  |         |
| FH-70-250 (250 µm coated single fiber)       | S017111 |  |         |
| FH-70-900 (900 µm jacketed single fiber)     | S017113 |  |         |
| FH-60-LT900 (Loose buffer 900 µm fiber)      | S015181 |  |         |
| <b>Batteries and Power Cords</b>             |         |  |         |
| ADC-20 AC Adapter                            | S017513 |  |         |
| BTR-15 Battery                               | S017512 |  |         |
| DCC-11 splicer to ribbon stripper power cord | S013852 |  |         |
| ACC-14 AC Power Cord                         | S014536 |  |         |

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**Specifications**

| PARAMETER                    |  | VALUE  |
|------------------------------|--|--|
| Fiber Alignment Method       |  | Self cladding alignment with melting surface tension                   |
| Fiber Count Can Be Spliced   |  | Up to 16 fiber ribbon  |
| Applicable Fiber             | Fiber Type   | Single mode optical fiber<br>Multi mode optical fiber                  |
|                              | Cladding Dia.  | Approx. 125 µm   |
| Applicable Coating           | Fiber Holder   | Coating shape.: Refer to fiber holder options<br>Cleave length : 10 mm |
| Fiber Splice Performance     | Splice Loss  | ITU-T G.652 : Avg. 0.05 dB   |
|                              |  | ITU-T G.651 : Avg. 0.02 dB   |
|                              |  | ITU-T G.653 : Avg. 0.08 dB   |
|                              |  | ITU-T G.655 : Avg. 0.08 dB   |
| Splice Time                  | SM FAST mode : Avg. 14 to 15 sec.                      |  |
|                              | SM AUTO mode : Avg. 19 to 20 sec.                      |  |
| Applicable Protection Sleeve | Sleeve Type  | Heat-shrinkable sleeve   |
|                              | Sleeve Length  | Max. 66 mm   |
|                              | Sleeve Dia.  | Max. 6.0 mm before shrinking   |
| Sleeve Heat Performance      | Heat Time  | 40 mm FP-05 mode : Avg. 38 to 40 sec.                                  |
|                              |  | 40 mm FP-04T mode : Avg. 17 to 19 sec.                                 |
| Fiber Tensile Test Force     |  | Single 60 mm mode: Avg. 13 to 15 sec.                                  |
| Electrode Life               |  | Approx. 2.0 N  |
| Physical Description         | Dimensions W<br>Dimensions D<br>Dimensions H<br>Weight | Approx. 1,500 splices  |
|                              |  | Approx. 170 mm without projection                                      |
|                              |  | Approx. 173 mm without projection                                      |
|                              |  | Approx. 150 mm without projection                                      |
| Environmental Condition      | Temperature  | Approx. 2.6 kg including battery                                       |
|                              |  | Operate : -10 to 50°C  |
|                              |  | Storage : -40 to 80°C  |
| Humidity                     | Operate : 0 to 95% RH non-condensing                   |  |
|                              | Storage : 0 to 95% RH non-condensing                   |  |
| AC Adaptor                   | Altitude   | Max. 3,700 m   |
|                              |  | Input  |
| Battery Pack                 | Type   | Rechargeable Lithium Ion   |
|                              | Output   | Approx. DC14.4V / 6,380 mAh  |
|                              | Capacity   | Approx. 165 splice and heat cycles                                     |
|                              | Temperature  | Recharge : 0 to 30°C   |
|                              |  | Storage : -20 to 30°C  |
| Battery Life                 | Approx. 500 recharge cycles                            |  |
| Display                      | LCD Monitor  | Recharge Time  |
|                              |  | Approx. 5 – 8 hours from empty   |
| Magnification                | TFT 5 inches with touch screen                         |  |
|                              | Approx. 20X : 12 Ribbon to 60X : Single                |  |
| Illumination                 | V-Grooves  | LED lamp   |
|                              |  | PC   |
| Interface                    | External Led Lamp                                      | USB2.0 Mini B type   |
|                              |  | USB2.0 A type, Approx. DC5V, 500 mA                                    |
|                              |  | Ribbon Stripper  |
|                              |  | Mini DIN 6 pin, DC12V, Max. 1A   |
| Data Storage                 | Wireless   | Bluetooth 4.1 LE   |
|                              |  | Splice Mode  |
|                              |  | 100 splice modes   |
|                              |  | Heat Mode  |
| 30 heat modes                |  |  |
| Splice Result                | 10,000 splices   |  |
| Splice Image                 | 100 images   |  |
| Screw Hole For Tripod        |  | 1/4-20 UNC   |
| Other Features               | Automatic Functions                                    | Splice mode select by fiber type analysis                              |
|                              |  | Discharge power calibration  |
|                              |  | Wind protector : open/close  |
|                              |  | Sheath clamp : open  |
|                              |  | Heater lid : open/close  |
| Reference Guide              | Electrode  | Heater clamp : open/close  |
|                              |  | Video and PDF file stored in splicer                                   |
|                              |  | Replaceable without tool   |

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