



35S



35S Standard Kit



CT-16 with AD-16A Adapter

## Fujikura 35S Fusion Splicer

The 35S cladding alignment fusion splicer is changing the way people splice fiber in small to mid-fiber count applications. This Fujikura splicer debuts a landmark improvement to the fusion splicing process with the ability to prepare and load both fibers simultaneously. The hand-held fiber coating stripper, the SS-05, is capable of stripping two 250  $\mu$ m coated fibers in the same pass, along with the CT-16 cleaver adapter plate which can likewise accommodate two bare fibers for cleaving. After preparation, the 35S patented sheath clamps enable loading both fibers simultaneously into the splicer with one fiber in each hand. The user can press down on the sheath clamp base to close it while positioning the fiber in the v-grooves. This enables a one-handed operation.

Furthermore, the 35S sheath clamps are mechanically linked to the wind protector, so after splicing is finished, opening the wind protector also opens both sheath clamps for quick sleeve positioning and transfer to the tube heater. The 35S tube heater shrinks sleeves much faster than its predecessor with a nominal ~20 second heat time for 60 mm sleeves down from ~26 seconds. The simultaneous fiber preparation capability, automated sheath clamp opening, and a faster tube heater, combine to lower the overall fusion splicing cycle time by ~30% or more.

The 35S continues to benefit the user experience with improvements to fiber placement, battery access, and machine ergonomics. Previously, when using sheath clamps, if the cleaved fiber was accidentally set past the electrode centerline, the machine would send an error and require manual intervention. The 35S will now accept this mistake and reverse the fiber to correct position automatically. With a cube form factor, the 35S is easily transported and operated in space-constrained environments. The adjustable screen can alleviate glare from the sun and adjust with abnormal splicer positions confronted in challenging splice locations.

Backed by the best service team in the industry, the Fujikura 35S is the ideal splicer to use when portability, ruggedness, speed, and reliability are needed. If you'd like to see the 35S capabilities first-hand, please contact us at 1-800-235-3423 to arrange a product demonstration at your earliest convenience.

### Features

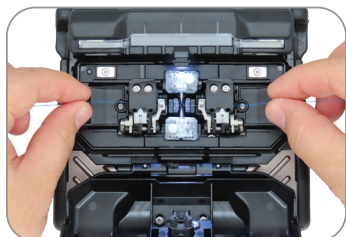
- Simultaneous fiber preparation with patented sheath clamp design.
- Sheath clamps automatically opened with the wind protector.
- Automatic fiber placement correction.
- Active Fusion Control for arc optimization with every splice.
- Easy-access battery, screen position adjustments, and ergonomic adaptations.
- Fully ruggedized for shock, moisture, and dust resistance.

### Applications

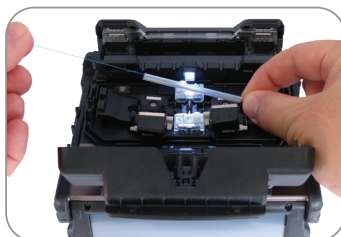
- 5G Small Cell Site
- FTTx drops and terminations
- MDF/IDF splices and terminations
- Rural fiber deployments and restorations

## Fujikura 35S Fusion Splicer

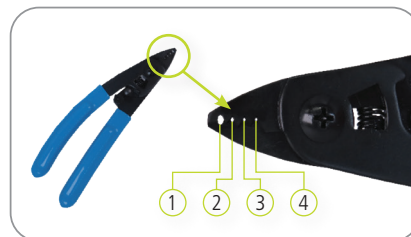
### Features



Simultaneous Fiber Loading



Sleeve Positioning



Fiber stripper SS-05

- ① For 2.3 mm
- ② For 900 μm
- ③ For 250 μm
- ④ For 250 μm

### Ordering Information

| DESCRIPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | AFL NO. |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| <b>Fujikura 35S Standard Kit</b><br><b>Includes:</b> CT-16 cleaver, SS-05 single fiber stripper, 1 pair each FH-70-250 and FH-70-900 fiber holders, SP-04 set plates, ELCT2-16B Spare Electrodes (Pair), ADC-21 AC Adapter, BTR-17 Battery Pack (installed), ACC-09 Power Cord, USB-01 USB Cable, AP-02 Alcohol Container, WT-10 work tray, ST-03 carrying case strap, TS-03 tripod screw, CC-44 Transit Case, 1 year factory warranty and instruction manual downloaded from splicer | S018314 |
| <b>Fujikura 35S Kit without Cleaver</b><br><b>Includes:</b> SS-05 single fiber stripper, 1 pair each FH-70-250 and FH-70-900 fiber holders, SP-04 set plates, ELCT2-16B Spare Electrodes (Pair), ADC-21 AC Adapter, BTR-17 Battery Pack (installed), ACC-09 Power Cord, USB-01 USB Cable, AP-02 Alcohol Container, WT-10 work tray, ST-03 carrying case strap, TS-03 tripod screw, CC-44 Transit Case, 1 year factory warranty and instruction manual downloaded from splicer         | S018316 |
| One Year Extended Warranty                                                                                                                                                                                                                                                                                                                                                                                                                                                            | S012996 |
| Two Year Extended Warranty                                                                                                                                                                                                                                                                                                                                                                                                                                                            | S013000 |

### Recommended Accessories

| DESCRIPTION                                      | AFL NO. |
|--------------------------------------------------|---------|
| <b>Cleavers AND STRIPPERS</b>                    |         |
| CT-50 Fiber Cleaver                              | S017030 |
| CT-16 Fiber Cleaver                              | S018330 |
| SS-05 Single Fiber Stripper                      | S018327 |
| <b>Fiber Holders</b>                             |         |
| CLAMP-S35B Loose Buffer Sheath Clamp             | S018333 |
| FH-70-250 (250 μm single fiber)                  | S017111 |
| FH-70-200 (200 μm single fiber)                  | S017711 |
| FH-70-900 Fiber Holders (900 μm single fiber)    | S017113 |
| FH-60-LT900 (900 μm loose buffer tube)           | S015181 |
| <b>FUSEConnect® Accessories</b>                  |         |
| FH-FC-20 (900 μm within 2.0 mm sheathing) (each) | S014696 |
| FH-FC-30 (900 μm within 3.0 mm sheathing) (pair) | S014695 |
| FH-FC-900 (900 μm cable) (each)                  | S014697 |
| CLAMP-FC-2000 (pair)                             | S014705 |
| CLAMP-FC-3000 (pair)                             | S014704 |

| DESCRIPTION                                                   | AFL NO. |
|---------------------------------------------------------------|---------|
| <b>Power Supply Options</b>                                   |         |
| BTR-17 Battery Pack                                           | S018324 |
| ADC-21 AC Adapter                                             | S018168 |
| ACC-09 Power Cord                                             | S014390 |
| <b>Miscellaneous</b>                                          |         |
| TS-03 Tripod Screw                                            | S017524 |
| ELCT2-16B Electrodes                                          | S017103 |
| CC-44 Transit Case                                            | S018325 |
| Splicer V-Groove Cleaning Kit                                 | S014397 |
| USB-01 USB Cable                                              | S014777 |
| SP-04 Fiber Holder Set Plates                                 | S018332 |
| AD-16A Adapter Plate (CT-50 & CT-16 up to 900um)              | S018328 |
| AD-16B Adapter Plate (CT-50 & CT-16 up to 3mm)                | S018331 |
| CB-09 Replacement Blade for CT-16 Cleaver                     | S018335 |
| Portable Tripod Workstation (see web listing for more detail) | S014773 |

## Fujikura 35S Fusion Splicer

### Specifications

| PARAMETER                  |                              | VALUE                                                                                                                        |                             |
|----------------------------|------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
| Fiber alignment method     |                              | Active cladding alignment                                                                                                    |                             |
| Fiber count can be spliced |                              | Single fiber                                                                                                                 |                             |
| Applicable fiber           | Fiber type                   | Single mode optical fiber<br>Multi mode optical fiber                                                                        |                             |
|                            | Cladding dia.                | Approx. 125 μm                                                                                                               |                             |
| Applicable coating         | Sheath Clamp                 | Coating diameter: Max. 3,000 μm<br>Cleave length: 5 to 16 mm *1                                                              |                             |
|                            | Fiber Holder                 | Coating diameter: 160 μm – 3,000 μm based on available fiber holder options<br>Cleave length: Approx. 10 mm                  |                             |
| Fiber splice performance   | Splice loss *2               | ITU-T G.652: Avg. 0.03dB                                                                                                     |                             |
|                            |                              | ITU-T G.651: Avg. 0.01dB                                                                                                     |                             |
|                            |                              | ITU-T G.653: Avg. 0.05dB                                                                                                     |                             |
|                            |                              | ITU-T G.655: Avg. 0.05dB                                                                                                     |                             |
|                            |                              | ITU-T G.657: Avg. 0.03dB                                                                                                     |                             |
|                            | Splicing time*3              | SM FAST mode: Avg. 6 to 7 sec.<br>SM AUTO mode: Avg. 8 to 10sec.                                                             |                             |
|                            | 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*4                  | 60 mm mode: Avg. 15 to 22sec.<br>60 mm slim mode: Avg. 15 to 17sec.                                                          |                             |
| Fiber tensile test force   |                              | Approx. 2.0 N                                                                                                                |                             |
| Electrode life*5           |                              | Approx. 6,000 splices                                                                                                        |                             |
| Physical description       | Dimensions W                 | Approx. 131 mm without projection                                                                                            |                             |
|                            | Dimensions D                 | Approx. 123 mm without projection                                                                                            |                             |
|                            | Dimensions H                 | Approx. 121 mm without projection                                                                                            |                             |
|                            | Weight                       | Approx. 1.4 kg including battery                                                                                             |                             |
| Environmental condition    | Temperature                  | Operate : -10 to 50°C<br>Storage : -40 to 80°C                                                                               |                             |
|                            | Humidity                     | Operate : 0 to 95% non-condensing<br>Storage : 0 to 95% non-condensing                                                       |                             |
|                            | Altitude                     | Max. 5,000 m                                                                                                                 |                             |
| AC adaptor                 | Input                        | AC100 to 240V, 50/60Hz, Max. 1A                                                                                              |                             |
|                            | Output                       | Approx. DC 19V, Max. 2.1A                                                                                                    |                             |
| Battery pack               | Type                         | Rechargeable Lithium Ion                                                                                                     |                             |
|                            | Output                       | Approx. DC14.4V / 3,190mAh                                                                                                   |                             |
|                            | Capacity*6                   | 60 mm heat mode: Approx. 200 splice & heat cycles                                                                            |                             |
|                            |                              | 60 mm slim heat mode: Approx. 230 splice & heat cycles                                                                       |                             |
|                            | Temperature                  | Operate: -10 to 50°C<br>Recharge : 0 to 40°C<br>Short term storage of 30 days: -20 to 50°C<br>Long term storage: -20 to 30°C |                             |
|                            |                              | Battery life*7                                                                                                               | Approx. 500 recharge cycles |
|                            |                              |                                                                                                                              |                             |
| Display                    | LCD monitor                  | TFT 4.95 inches with touch screen                                                                                            |                             |
|                            | Magnification                | Approx. 132 to 300X                                                                                                          |                             |
| Illumination               | V-grooves                    | LED lamp                                                                                                                     |                             |
| Interface                  | PC                           | USB 2.0 MINI B type<br>USB 2.0 A type                                                                                        |                             |
|                            | External LED lamp            | Approx. DC5V, 500mA                                                                                                          |                             |

## Fujikura 35S Fusion Splicer

### Specifications

| PARAMETER      |                     | VALUE                                |
|----------------|---------------------|--------------------------------------|
| Data storage   | Splice mode         | 100 splice modes                     |
|                | Heat mode           | 30 heat modes                        |
|                | Splice result       | 20,000 splices                       |
|                | Fiber image         | 100 images                           |
| Other features | Automatic functions | Fusion control                       |
|                |                     | Splice start                         |
|                |                     | Heater start                         |
|                | Reference guide     | PDF file stored on splicer           |
|                | Sheath clamp        | Open with/without wind protector     |
|                |                     | Close when setting fiber             |
|                |                     | Easy sleeve positioning design       |
|                | Electrode           | Tool-less replacement                |
|                | PC Software         | Splicer firmware update via internet |
|                |                     | Parameter Upload and download        |

#### NOTES:

- \*1 Cleave length range depending on fiber type  
5 – 16 mm: 125 µm cladding dia. And 250 µm coating dia.  
10 – 16 mm: 125 µm cladding dia. And 400 or 900 µm coating dia.
- \*2 Measured with cut-back method relevant to ITU-T and IEC standard after splicing Fujikura identical fibers. The average splice loss changes depending on the environmental condition and fiber characteristics.
- \*3 Measured at room temperature. The definition of splice time is from the fiber image appearing on the LCD monitor to the estimated splice loss. The average splice time changes depending on the environmental conditions, fiber type, and fiber characteristics.
- \*4 Measured at room temperature with the AC adapter. The heat time is defined from the start beep sound to the finish beep sound. The average heat time changes depending on the environmental conditions, sleeve type, and battery pack condition. In addition, since the heating operation is constantly optimized, the average heating time changes depending on the usage conditions of the fusion splicer.
- \*5 The electrode life changes depending on the environmental conditions, fiber type, and splice modes used.
- \*6 Test Conditions  
Splice and heat time: 1 minute cycle  
Using the splicer power save settings, subject to our testing condition  
Using a new battery  
Room temperature  
The battery capacity changes when testing in different conditions than above
- \*7 The battery capacity decreases to half after approx. 500 discharge and recharge cycles. The battery life is shortened further when using outside of the storage and operating temperature ranges, or if completely discharged when stored for an extended period without recharging.