



Manufacturer:
AFL

Product Name:
AFL ACC-14 AC Power Cord (for use with the ADC-13)

Manufacturer Part Number:
S014536

▶ [Click here for more details on the AFL ACC-14 AC Power Cord \(for use with the ADC-13\)](#)

Fujikura 100R Fusion Splicer

The Fujikura 100R mass fusion splicer introduces Intelligent Alignment Control to deliver more reliable, uniform splices by automatically correcting fiber placement, end-face gaps, and axis alignment across all fibers.

Intelligent Alignment Control in the 100R enhances splice reliability by automatically correcting improper fiber seating, minimizing end-face gap variation, and stabilizing fiber-axis alignment across all fibers. Adjustable control levels allow the system to balance precision and cycle time, ensuring the best splice results across broadband or hyperscale applications.

Auto Placement Correction automatically detects and corrects fibers that are improperly seated in the V-groove prior to fusion. By automatically lifting the clamp and adjusting the Z-stage as needed, the system ensures proper fiber placement, reducing splice variability, and minimizing manual intervention.

Gap Alignment Correction automatically reduces variation in endface gaps across fibers prior to fusion. By continuously adjusting alignment until the target range is met, the 100R improves splice uniformity and consistency while completing the correction in as little as one second.

Axis Offset Correction reduces fiber axis position offsets across all fibers prior to fusion. By performing controlled, automatic alignment adjustments, the 100R improves splice uniformity and consistency while applying corrections only as needed to maintain efficient cycle times.

With the Fujikura 100R, you can keep your splicer in the field longer thanks to the included, field-replaceable V-grooves. With the AFL Tote Solution installed, the 100R transit case securely integrates with Milwaukee's PACKOUT™ system, offering faster transport, stability, and time savings for contractors and technicians.

Put our 100R to the test by contacting us to see its capabilities first-hand, 1-800-235-3423.

Features

- Intelligent Alignment Controls for hands-free alignment
- Auto Placement Correction for proper fiber seating
- Gap Alignment Correction for uniform endface gaps
- Axis Offset Correction for consistent fiber alignment
- Cleaver tracking and upkeep with wireless communication
- Automated wind protector, tube heater and splice operation
- User replaceable V-grooves
- Graphical User Interface with 5.0" Touchscreen
- Multi-function transit case with integrated workstation

Applications

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



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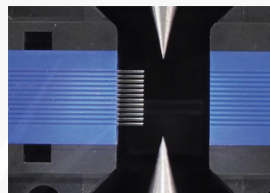
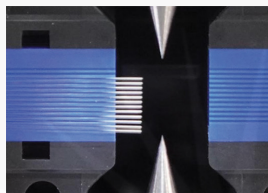
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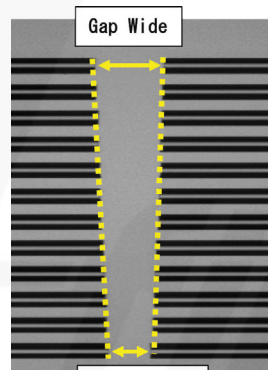
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Intelligent Alignment Control Features



Auto Placement Correction
(before on left; after on right)



Gap Wide



Gap Narrow

Gap Alignment Correction
(before on left; after on right)

Ordering Information

| Description | AFL No. |
|--|---------|
| Fujikura 100R SpliceReady Splicer Kit Includes: Fujikura 100R Standard Kit (S018665), FP-05 40 mm protection sleeve, Splicer V-groove cleaning kit, FH-80-12PC 200 to 250um Pitch Conversion Fiber Holder, AFL WFW wipes mini tub (90 wipes), FCC2 fiber cleaning fluid (3 oz.), RT-02 Ribbonizing tool | S018713 |
| Fujikura 100R with 200 µm Accessories SpliceReady Kit Includes: Fujikura 100R Standard Kit (S018665), FP-05 40 mm protection sleeve, VG12-02-200 200 µm V-groove, FH-80-16PC 200 to 250 µm Pitch Conversion Fiber Holder, FH-80-12-200 fiber holders, RT-02 Ribbonizing tool, Splicer V-groove cleaning kit, FCC2 fiber cleaning fluid (3 oz.), AFL WFW wipes mini tub (90 wipes) | S018714 |
| Fujikura 100R Fusion Splicer Kit with CT60 and RS03 Includes: BTR-19 Battery, ADC-22 AC Adapter, ACC-19 AC Cord, CT60 Cleaver, RS03 Stripper with internal BTR-12A battery, ADC-09A AC Adapter with ACC-09 cord, ELCT2-16C Spare Electrodes (pair) with spare V-Grooves (VG12-02), FH-80-12 Fiber Holders (pair), USB-02 Cable, Alcohol Dispenser, Quick Reference Guide, TS-04A Splicer Tripod Screw, TS-04B Cleaver Tripod Screw, On-board Instructional Manual, CC-48 Transit Case, ST-02 Fusion Splicer Strap and Two-year Warranty | S018665 |
| Fujikura 100R Fusion Splicer (machine only) Includes: BTR-19 Battery, ADC-22 AC Adapter, ACC-19 AC Cord, ELCT2-16C Spare Electrodes (pair) with spare V-Grooves (VG12-02), FH-80-12 Fiber Holders (pair), USB-02 Cable, Alcohol Dispenser, Quick Reference Guide, TS-04A Splicer Tripod Screw, TS-04B Cleaver Tripod Screw, On-board Instructional Manual, Work Tray, CC-48 Transit Case, and Two-year Warranty | S018710 |
| Fujikura 100R Fusion Splicer Kit without Bluetooth with CT60 and RS01 Includes: BTR-19 Battery, ADC-22 AC Adapter, ACC-19 AC Cord, CT-60 Cleaver, RS01 Stripper, ADC-09A AC Adapter with ACC-09 cord, ELCT2-16C Spare Electrodes (pair) with spare V-Grooves (VG12-02), FH-80-12 Fiber Holders (pair), USB-02 Cable, Alcohol Dispenser, Quick Reference Guide, TS-04A Splicer Tripod Screw, TS-04B Cleaver Tripod Screw, On-board Instructional Manual, CC-48 Transit Case, ST-02 Fusion Splicer Strap and Two-year Warranty | S018712 |
| Fujikura 100R Fusion Splicer without Bluetooth Includes: BTR-19 Battery, ADC-22 AC Adapter, ACC-19 AC Cord, ELCT2-16C Spare Electrodes (pair) with spare V-Grooves (VG12-02), FH-80-12 Fiber Holders (pair), USB-02 Cable, Alcohol Dispenser, Quick Reference Guide, TS-04A Splicer Tripod Screw, TS-04B Cleaver Tripod Screw, On-board Instructional Manual, CC-48 Transit Case, and Two-year Warranty | S018711 |
| One-Year Extended Warranty | S012996 |
| Two-Year Extended Warranty | S013000 |

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Fujikura 100R Fusion Splicer

Recommended Products for the 100R

| Description | AFL No. | Description | AFL No. |
|---|-------------------------|---|-------------------------|
| Cleavers and Strippers | | Batteries and Power Cords | |
| CT-60 Cleaver | S018654 | ADC-22 AC Adapter | S018666 |
| RS01 Thermal Stripper | S016815 | BTR-19 Battery | S018670 |
| RS02 Thermal Stripper | S016816 | DCC-11 splicer to ribbon stripper power cord | S013852 |
| RS03 Thermal Stripper | S016817 | DCC-20 Power Cord | S017527 |
| Fiber Holders and V-Grooves | | Connects ADC-20 to cigarette lighter socket | |
| FH-80-2 Fiber Holder | S018726 | DCC-21 Power Cord | S017528 |
| FH-80-4 Fiber Holder | S018727 | Connects ADC-20 to power source via alligator clips | |
| FH-80-5 Fiber Holder | S018728 | ACC-14 AC Power Cord | S014536 |
| FH-80-6 Fiber Holder | S018729 | Miscellaneous | |
| FH-80-8 Fiber Holder | S018730 | SS01 Single fiber stripper (1 hole) | S017099 |
| FH-80-9 Fiber Holder | S018731 | ELCT2-16C Electrodes | S018669 |
| FH-80-10 Fiber Holder | S018732 | Portable Splicing Worktray (see product profile for more detail) | S014773 |
| FH-80-12 Fiber Holder | S018733 | ASW-02 Splicing Workstation (see product profile for more detail) | S010532 |
| FH-80-12-200 Fiber Holder | S018734 | WT-11R Work Tray Right | S018674 |
| FH-80-12PC 200 to 250um Pitch Conversion Fiber Holder | S018735 | WT-11L Work Tray Left | S018673 |
| FH-80-16 Fiber Holder | S018736 | JP-12 Work Tray J-Plate (Splicer Mount) | S018681 |
| FH-80-16-200 Fiber Holder | S018737 | JP-11 J-Plate (Cooling tray attaches to splicer) | S018675 |
| FH-80-16PC 200 to 250um Pitch Conversion Fiber Holder | S018738 | TS-04B Cleaver Tripod Screw | S018691 |
| FH-70-250 (250 µm coated fiber) | S017111 | TS-04A Splicer Tripod Screw (90 Series) | S018677 |
| FH-70-900 (900 µm jacketed fiber) | S017113 | ST-02 Fusion Splicer Strap | S017525 |
| FH-70-160 (160 µm coated fiber) | S017095 | CLAMP-DC-12 (Drop Cable clamp on work tray) | S017550 |
| FH-60-LT900 (Loose buffer 900 µm fiber) | S015181 | FST-12 Fiber Separation Tool | S014012 |
| VG16-02 16 Fiber/250 µm V-Groove | S018739 | FAT-04 Fiber Arrangement Tool | S010212 |
| VG16-02-200 16 Fiber/200 µm V-Groove | S018740 | RT-02 Fiber Arrangement Tool | S017465 |
| VG12-02 12 Fiber/250 µm V-Groove | S018741 | FAA-03A Ribbon Forming Adhesive (4 oz. bottle) | S008720 |
| VG12-02-200 12 Fiber/200 µm V-Groove | S018742 | FAA-03A Ribbon Forming Adhesive (0.5 liter bottle) | S008622 |
| VG08-02 8 Fiber/250 µm V-Groove | S018743 | CC-48 Transit Case | S018672 |
| VG04-02 4 Fiber/250 µm V-Groove | S018744 | Splicer V-groove Cleaning Kit | S014397 |
| FUSEConnect® Accessories | | ST-03 Case and Work Tray Strap | S017549 |
| FH-FC-20 (900 µm within 2.0 mm sheathing) (each) | S014696 | AFL Tote Solution - Cleat Installation Service | S018623 |
| 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 | | |

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Specifications

| Parameter | Value | |
|---|--|---|
| Fiber Alignment Method | Self-Cladding alignment with Surface Melting Tension | |
| Fiber Count Can Be Spliced | Single and up to 16 Fiber Ribbon with Applicable V-groove | |
| Applicable Fiber | Fiber Type | Single-mode Fiber |
| | Cladding Diameter | Multimode Fiber |
| Applicable Coating | Fiber Holder | Approx. 125 µm |
| | Fiber Holder | Coating Shape: Refer to Options Cleave Length: Approx. 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 | ITU-T G.657: Avg 0.08 db | |
| | SM Fast Mode: Avg 16 to 18 Seconds SM Auto Mode: Avg 19 to 21 Seconds | |
| Applicable Protection Sleeve | Sleeve Type | Heat Shrinkable Sleeve |
| | Sleeve Length | Max. 66 mm |
| | Sleeve Diameter | Max. 6.0 mm before Shrink |
| Sleeve Heat Performance | Heat Time | 40 mm FP-05 Mode: Avg 33 to 40 Seconds |
| | | 40 mm FP-04T Fast Mode: Avg 19 to 26 seconds Single 60 mm Mode: Avg. 8 to 15 Seconds |
| Fiber Tensile Test Force | Approx. 2.0 N | |
| Electrode Life | Approx. 1,500 Splices | |
| Physical Description | Dimensions W | 157 mm |
| | Dimensions D | 178 mm |
| | Dimensions H | 171 mm |
| | Weight | 2.6 kg including Battery |
| Environmental Condition | Temperature | 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 |
| | Altitude | Max. 3,700 m |
| AC Adapter | Input | AC100 to 240V, 50/60Hz, Max. 1.5A |
| | Output | Approx. DC 12V, max. 7A |
| Battery Pack | Type | Rechargeable Lithium Ion |
| | Output | Approximately DC 12 V, Max 5A |
| | Capacity | Approximately 165 Splices with Heat Shrink |
| | Temperature | Operate: -10 to +50°C |
| | | Recharge: 0 to +40°C |
| | | Storage < One (1) Year: -20 to +20°C |
| Storage < Three (3) Months: -20 to +40°C Storage < One (1) Month: -20 to +50°C | | |
| Recharge Time | ≤ Six (6) Hours from Empty | |
| Battery Life | Approximately 500 Recharge Cycles | |
| Display | LCD Monitor | TFT 4.95 inch Tough Screen |
| | Magnification | Approx. 30x: 12-Fiber Ribbon Approx. 90x: Single Fiber |
| Illumination | V-Grooves | LED Lamp |
| | Splice Mode | 100 splice modes |
| Data Storage | Heat Mode | 30 heat modes |
| | Splice Result | 20,000 splices |
| | Splice Image | 100 images |

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Specifications (cont.)

| Parameter | Value |
|-----------------------|--|
| Automatic Functions | Splice-mode Select by Fiber Count Analysis |
| | Fusion Power Calibration |
| | Fully Automatic Cleaver Blade Management |
| | Wind Protector: Open and Close |
| | Clamp: Auto Clamping Force Adjustment |
| | Z-Holder Base: Auto Placement Correction |
| | Z-Holder Base: Gap Alignment Correction |
| | Splice Start |
| | Heater Lid: Open and Close |
| | Heater Clamp: Open and Close |
| Other Features | Heater Start |
| | Reference Guide |
| | Video and PDF Store on Splicer |
| | Electrode |
| | Replaceable without Tool |
| | Software for PC |
| | Splicer Update via Internet |
| | Parameter Upload and Download |
| | Operating Splicer with PC |
| | Splice Image Download to PC |
| GPS | Splice Location Recorded to Memory |
| | GEO Fencing |
| Screw Hole for Tripod | 1/4-20 UNC |

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