



**Manufacturer:**  
AFL

**Product Name:**  
AFL 100R Fiber Optic Fusion Splicer without Bluetooth

**Manufacturer Part Number:**  
S018711

▶ [Click here for more details on the AFL 100R Fiber Optic Fusion Splicer without Bluetooth](#)

## 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.



### 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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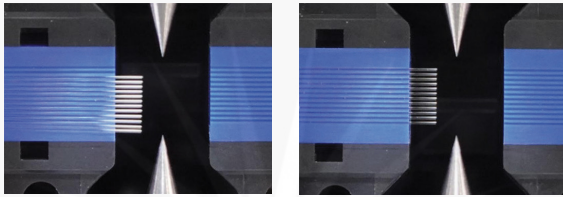
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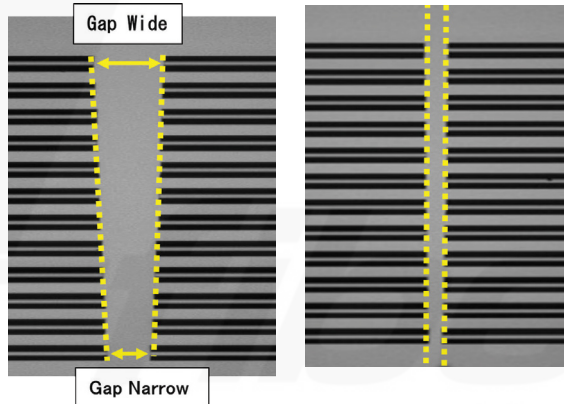
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## Fujikura 100R Fusion Splicer

### Intelligent Alignment Control Features



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



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

### Ordering Information

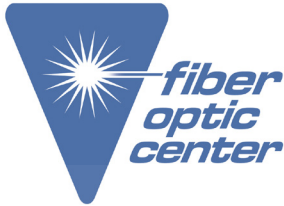
Description	AFL No.
<b>Fujikura 100R SpliceReady Splicer Kit</b> <b>Includes:</b> Fujikura 100R Standard Kit (S018665), FP-05 40 mm protection sleeve, Splicer V-groove cleaning kit, FH-80-12PC 200 to 250um Pitch Conversion Fiber Holder, AFL WFW wipes mini tub (90 wipes), FCC2 fiber cleaning fluid (3 oz.), RT-02 Ribbonizing tool	S018713
<b>Fujikura 100R with 200 µm Accessories SpliceReady Kit</b> <b>Includes:</b> 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
<b>Fujikura 100R Fusion Splicer Kit with CT60 and RS03</b> <b>Includes:</b> 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
<b>Fujikura 100R Fusion Splicer (machine only)</b> <b>Includes:</b> 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
<b>Fujikura 100R Fusion Splicer Kit without Bluetooth with CT60 and RS01</b> <b>Includes:</b> 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
<b>Fujikura 100R Fusion Splicer without Bluetooth</b> <b>Includes:</b> 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.
<b>Cleavers and Strippers</b>		<b>Batteries and Power Cords</b>	
CT-60 Cleaver	<a href="#">S018654</a>	ADC-22 AC Adapter	S018666
RS01 Thermal Stripper	S016815	BTR-19 Battery	S018670
RS02 Thermal Stripper	<a href="#">S016816</a>	DCC-11 splicer to ribbon stripper power cord	<a href="#">S013852</a>
RS03 Thermal Stripper	<a href="#">S016817</a>	DCC-20 Power Cord	S017527
<b>Fiber Holders and V-Grooves</b>		Connects ADC-20 to cigarette lighter socket	
FH-80-2 Fiber Holder	<a href="#">S018726</a>	DCC-21 Power Cord	S017528
FH-80-4 Fiber Holder	<a href="#">S018727</a>	Connects ADC-20 to power source via alligator clips	
FH-80-5 Fiber Holder	S018728	ACC-14 AC Power Cord	<a href="#">S014536</a>
FH-80-6 Fiber Holder	<a href="#">S018729</a>	<b>Miscellaneous</b>	
FH-80-8 Fiber Holder	<a href="#">S018730</a>	SS01 Single fiber stripper (1 hole)	S017099
FH-80-9 Fiber Holder	S018731	ELCT2-16C Electrodes	S018669
FH-80-10 Fiber Holder	<a href="#">S018732</a>	Portable Splicing Worktray (see product profile for more detail)	S014773
FH-80-12 Fiber Holder	<a href="#">S018733</a>	ASW-02 Splicing Workstation (see product profile for more detail)	S010532
FH-80-12-200 Fiber Holder	<a href="#">S018734</a>	WT-11R Work Tray Right	S018674
FH-80-12PC 200 to 250um Pitch Conversion Fiber Holder	<a href="#">S018735</a>	WT-11L Work Tray Left	S018673
FH-80-16 Fiber Holder	<a href="#">S018736</a>	JP-12 Work Tray J-Plate (Splicer Mount)	S018681
FH-80-16-200 Fiber Holder	<a href="#">S018737</a>	JP-11 J-Plate (Cooling tray attaches to splicer)	S018675
FH-80-16PC 200 to 250um Pitch Conversion Fiber Holder	<a href="#">S018738</a>	TS-04B Cleaver Tripod Screw	<a href="#">S018691</a>
FH-70-250 (250 µm coated fiber)	<a href="#">S017111</a>	TS-04A Splicer Tripod Screw (90 Series)	S018677
FH-70-900 (900 µm jacketed fiber)	<a href="#">S017113</a>	ST-02 Fusion Splicer Strap	S017525
FH-70-160 (160 µm coated fiber)	<a href="#">S017095</a>	CLAMP-DC-12 (Drop Cable clamp on work tray)	S017550
FH-60-LT900 (Loose buffer 900 µm fiber)	<a href="#">S015181</a>	FST-12 Fiber Separation Tool	<a href="#">S014012</a>
VG16-02 16 Fiber/250 µm V-Groove	<a href="#">S018739</a>	FAT-04 Fiber Arrangement Tool	<a href="#">S010212</a>
VG16-02-200 16 Fiber/200 µm V-Groove	<a href="#">S018740</a>	RT-02 Fiber Arrangement Tool	<a href="#">S017465</a>
VG12-02 12 Fiber/250 µm V-Groove	<a href="#">S018741</a>	FAA-03A Ribbon Forming Adhesive (4 oz. bottle)	<a href="#">S008720</a>
VG12-02-200 12 Fiber/200 µm V-Groove	<a href="#">S018742</a>	FAA-03A Ribbon Forming Adhesive (0.5 liter bottle)	<a href="#">S008622</a>
VG08-02 8 Fiber/250 µm V-Groove	<a href="#">S018743</a>	CC-48 Transit Case	S018672
VG04-02 4 Fiber/250 µm V-Groove	S018744	Splicer V-groove Cleaning Kit	<a href="#">S014397</a>
<b>FUSEConnect® Accessories</b>		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
		ITU-T G.657: Avg 0.08 db
Splice Time	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
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
GPS	Splice Image Download to PC
	Splice Location Recorded to Memory
	GEO Fencing
Screw Hole for Tripod	1/4-20 UNC

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