



**Manufacturer:**  
AFL

**Product Name:**  
AFL FSM-90R 16 Fiber Fusion Splicer (CT-50, battery & stripper)

**Manufacturer Part Number:**  
S017510

▶ [Click here for more details on the AFL FSM-90R 16 Fiber Fusion Splicer \(CT-50, battery & stripper\)](#)

## 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

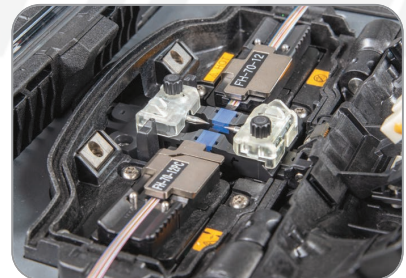


Bluetooth

90R



In Work Tray



Wind Protector Open

Contact the professionals at Fiber Optic Center for a quote or to get more details.

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Product specifications and data are subject to change without notice. FOC last update 4/14/2026.



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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 Multi mode optical fiber
	Cladding Dia.	Approx. 125 µm
Applicable Coating	Fiber Holder	Coating shape.: Refer to fiber holder options Cleave length : 10 mm
	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. 0.05 dB
Fiber Splice Performance	Splice Time	SM FAST mode : Avg. 14 to 15 sec. SM AUTO mode : Avg. 19 to 20 sec.
	Sleeve Type	Heat-shrinkable sleeve
Applicable Protection Sleeve	Sleeve Length	Max. 66 mm
	Sleeve Dia.	Max. 6.0 mm before shrinking 40 mm FP-05 mode : Avg. 38 to 40 sec. 40 mm FP-04T mode : Avg. 17 to 19 sec. Single 60 mm mode: Avg. 13 to 15 sec.
Sleeve Heat Performance	Heat Time	Approx. 2.0 N
Fiber Tensile Test Force	Approx. 1,500 splices	
Electrode Life	Approx. 170 mm without projection Approx. 173 mm without projection Approx. 150 mm without projection	
Physical Description	Dimensions W	Approx. 150 mm without projection
	Dimensions D	Approx. 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
AC Adaptor	Altitude	Max. 3,700 m
	Input	AC100 to 240 V, 50/60 Hz, Max. 1.5 A
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
Display	Battery Life	Approx. 500 recharge cycles
	Recharge Time	Approx. 5 – 8 hours from empty
Illumination	LCD Monitor	TFT 5 inches with touch screen
	Magnification	Approx. 20X : 12 Ribbon to 60X : Single
Interface	V-Grooves	LED lamp
	PC	USB2.0 Mini B type
Data Storage	External Led Lamp	USB2.0 A type, Approx. DC5V, 500 mA
	Ribbon Stripper	Mini DIN 6 pin, DC12V, Max. 1A
Screw Hole For Tripod	Wireless	Bluetooth 4.1 LE
	Splice Mode	100 splice modes
Other Features	Heat Mode	30 heat modes
	Splice Result	10,000 splices
Automatic Functions	Splice Image	100 images
	Electrode	1/4-20 UNC
Reference Guide	Splice mode select by fiber type analysis	Discharge power calibration
	Electrode	Wind protector : open/close Sheath clamp : open Heater lid : open/close Heater clamp : open/close Video and PDF file stored in splicer Replaceable without tool

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