



**Manufacturer:**  
AFL

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

**Manufacturer Part Number:**  
S017511

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

## 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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## 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
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 Dimensions D Dimensions H 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	
Recharge Time	Approx. 5 – 8 hours from empty	
	LCD Monitor	TFT 5 inches with touch screen
Display	Magnification	Approx. 20X : 12 Ribbon to 60X : Single
Illumination	V-Grooves	LED lamp
	PC	USB2.0 Mini B type
Interface	External Led Lamp	USB2.0 A type, Approx. DC5V, 500 mA
		Ribbon Stripper
	Wireless	Bluetooth 4.1 LE
	Data Storage	Splice Mode
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	Heater clamp : open/close	
	Video and PDF file stored in splicer	
	Electrode	Replaceable without tool

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