



Manufacturer:
AFL

Product Name:
AFL FH-70-16PC Pitch Conversion Fiber Holder for 90R Fusion Splicer

Manufacturer Part Number:
S018611

▶ Click here for more details on the AFL FH-70-16PC Pitch Conversion Fiber Holder for 90R Fusion Splicer

Fusion Splicing Systems

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. With the AFL Tote Solution installed, the 90R transit case securely integrates with Milwaukee's PACKOUT™ system, offering faster transport, stability, and time-savings for contractors and technicians.



Bluetooth

90R



In Work Tray

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



Wind Protector Open

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

focenter.com • 508-992-6464 | (800) 473-4237 • sales@focenter.com

23 Centre Street • New Bedford, MA 02740 USA

Product specifications and data are subject to change without notice. FOC last update 5/11/2026.



Manufacturer:
AFL

Product Name:
AFL FH-70-16PC Pitch Conversion Fiber Holder for 90R Fusion Splicer

Manufacturer Part Number:
S018611

▶ [Click here for more details on the AFL FH-70-16PC Pitch Conversion Fiber Holder for 90R Fusion Splicer](#)

Fujikura 90R Fusion Splicer

Ordering Information

DESCRIPTION	AFL NO.
Fujikura 90R Fusion Splicer (machine only) includes: 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
Fujikura 90R Standard Fusion Splicer Kit (with cleaver & thermal stripper) includes: 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
Fujikura 90R Fusion Splicer without Bluetooth (machine only) includes: 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
Fujikura 90R Fusion Splicer Kit without Bluetooth (with cleaver & thermal stripper) includes: 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.
Cleavers and Strippers		Miscellaneous	
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
Fiber Holders (pair)		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		
Batteries and Power Cords			
ADC-20 AC Adapter	S017513		
BTR-15 Battery	S017512		
DCC-11 splicer to ribbon stripper power cord	S013852		
ACC-14 AC Power Cord	S014536		

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

focenter.com • 508-992-6464 | (800) 473-4237 • sales@focenter.com

23 Centre Street • New Bedford, MA 02740 USA



Manufacturer:
AFL

Product Name:
AFL FH-70-16PC Pitch Conversion Fiber Holder for 90R Fusion Splicer

Manufacturer Part Number:
S018611

▶ [Click here for more details on the AFL FH-70-16PC Pitch Conversion Fiber Holder for 90R Fusion Splicer](#)

Fujikura 90R Fusion Splicer

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	
	Cladding Dia.	Multi mode optical fiber	
Applicable Coating	Fiber Holder	Approx. 125 µm	
	Fiber Holder	Coating shape.: Refer to fiber holder options	
Fiber Splice Performance	Splice Loss	Cleave length : 10 mm 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	
	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. Single 60 mm mode: Avg. 13 to 15 sec.	
	Heat Time	Single 60 mm mode: Avg. 13 to 15 sec.	
Fiber Tensile Test Force	Approx. 2.0 N		
Electrode Life	Approx. 1,500 splices		
Physical Description	Dimensions W	Approx. 170 mm without projection	
	Dimensions D	Approx. 173 mm without projection	
	Dimensions H	Approx. 150 mm without projection	
	Weight	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	
	Altitude	Max. 3,700 m	
AC Adaptor	Input	AC100 to 240 V, 50/60 Hz, Max. 1.5 A	
	Type	Rechargeable Lithium Ion	
Battery Pack	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	
Display	Recharge Time	Approx. 5 – 8 hours from empty	
	LCD Monitor	TFT 5 inches with touch screen	
Magnification	Magnification	Approx. 20X : 12 Ribbon to 60X : Single	
	V-Grooves	LED lamp	
Interface	PC	USB2.0 Mini B type	
	External Led Lamp	USB2.0 A type, Approx. DC5V, 500 mA	
	Ribbon Stripper	Mini DIN 6 pin, DC12V, Max. 1A	
	Wireless	Bluetooth 4.1 LE	
Data Storage	Splice Mode	100 splice modes	
	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	
	Reference Guide	Heater lid : open/close	
Heater clamp : open/close			
Electrode	Video and PDF file stored in splicer		
Electrode	Replaceable without tool		

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

focenter.com • 508-992-6464 | (800) 473-4237 • sales@focenter.com

23 Centre Street • New Bedford, MA 02740 USA