

Manufacturer: AFL
Product Name: AFL FH-70-900 Fiber Holders
Manufacturer Part Number: S017113

Click here for more details on the AFL FH-70-900 Fiber Holders

Click the thumbnail below to navigate to the datasheet.

Thumbnail for Fujikura 100R Fusion Splicer. Includes manufacturer info (AFL), product name (AFL FH-70-250 Fiber Holders), and manufacturer part number (S017111). Features a 'Learn More' button and a 'Click here for more details...' link.

Fujikura 100R Fusion Splicer

Thumbnail for Fujikura 100S Fusion Splicer. Includes manufacturer info (AFL), product name (AFL FH-70-250 Fiber Holders), and manufacturer part number (S017111). Features a 'Learn More' button and a 'Click here for more details...' link.

Fujikura 100S Fusion Splicer

Thumbnail for Fujikura 45S Fusion Splicer. Includes manufacturer info (AFL), product name (AFL FH-70-250 Fiber Holders), and manufacturer part number (S017111). Features a 'Learn More' button and a 'Click here for more details...' link.

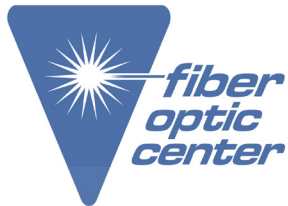
Fujikura 45S Fusion Splicer

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Manufacturer:
AFL

Product Name:
AFL FH-70-900 Fiber Holders

Manufacturer Part Number:
S017113



▶ [Click here for more details on the AFL FH-70-900 Fiber Holders](#)

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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Manufacturer:
AFL

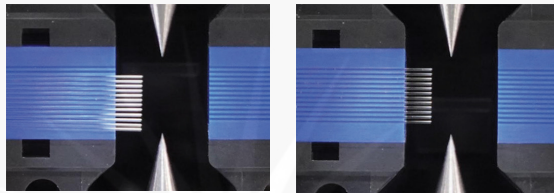
Product Name:
AFL FH-70-900 Fiber Holders

Manufacturer Part Number:
S017113

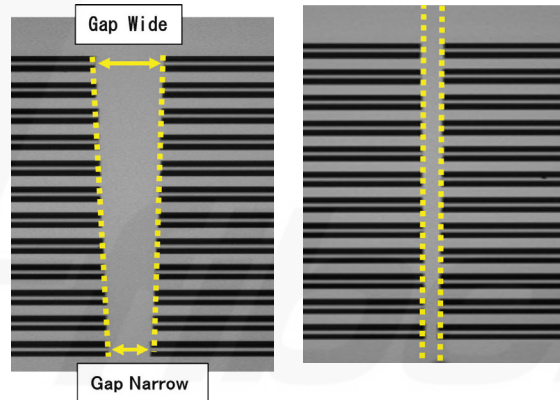
▶ [Click here for more details on the AFL FH-70-900 Fiber Holders](#)

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.
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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Manufacturer:
AFL

Product Name:
AFL FH-70-900 Fiber Holders

Manufacturer Part Number:
S017113

▶ [Click here for more details on the AFL FH-70-900 Fiber Holders](#)

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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Manufacturer:
AFL

Product Name:
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Manufacturer Part Number:
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Fujikura 100R Fusion Splicer

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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Manufacturer:
AFL
Product Name:
AFL FH-70-900 Fiber Holders
Manufacturer Part Number:
S017113

▶ Click here for more details on the AFL FH-70-900 Fiber Holders

Fujikura 100R Fusion Splicer

Specifications (cont.)

Parameter	Value	
Other Features	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
		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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Fujikura 100S Fusion Splicer

Built for the demands of modern fiber installation, the Fujikura 100S Fusion Splicer combines intelligent automation with user-first design to streamline daily splicing tasks. From faster fiber preparation and alignment to smart adjustments that eliminate manual guesswork, the 100S helps technicians work more efficiently and with greater confidence.

Its customizable interface adapts to the user, not the other way around, while robust engineering ensures consistent, high-quality splices in any environment. Whether you're on a tight schedule or tackling complex jobs, the 100S is designed to save time, reduce errors, and support peak performance in the field.

Intuitive Operation: Large LCD screen makes splicing as easy as using a smartphone.

Dual Fiber Preparation: The Fujikura 100S splicer supports dual fiber loading, allowing technicians to place two prepared fibers into the machine simultaneously. This can reduce splicing time by up to 30%!

Automated fiber-length adjustments: The 100S Fusion Splicer ensures optimal fiber positioning automatically for a perfect splice every time. If there's too little fiber in front of the electrodes, the splicer automatically pulls more through; if there's too much, it retracts the excess.

Splice Coach: For seasoned technicians, the built-in Splice Coach will help guide you to learn new techniques, improving your productivity and reinforcing splicing best practices.

Simple Fiber Guide: A built-in embedded fiber guide makes fiber loading faster and more accurate by allowing you to simply place the fiber into the guide while the splicer handles alignment.

Custom Splicer Setup: The 100S features a personalized splice settings menu that uses visual diagrams and detailed explanations to show how each parameter affects splicer components for confident customization.

GPS Tracking: The 100S features Location-Based Locking, which allows technicians to define a GPS-based Secure Zone where the device remains fully operational. If moved outside this designated area, the splicer automatically locks to prevent unauthorized use or theft. It also records the location of each splice for comprehensive tracking.

USB Power and Recharging: The 100S supports fast USB-C recharging (4-6 hrs.) and external battery support when the job runs longer than expected.



Features

- Automated wind protector, tube heater and splice operation
- Dual fiber loading reduces preparation time
- Embedded fiber guide for accurate, error-free fiber loading
- Built-in Splice Coach virtual mentor to improve productivity
- Custom Splicer Setup menus with new UI and visual diagrams
- GPS splice stamp for location record keeping
- Location Based Locking prevent unauthorized use or theft
- USB-C charging and data port
- Multi-function transit case with integrated workstation

Applications

- Distribution fiber repair
- Long-haul network installation
- Field termination with splice-on connectors
- Access network installation
- Fanout kits, pigtails and splice cassettes
- OSP cable installation and repair
- Optical modules – splitters, couplers, MUXs, EDFAs and attenuators

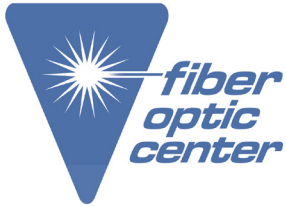
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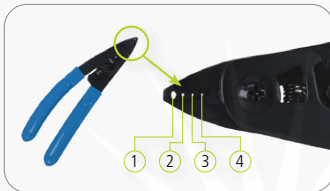
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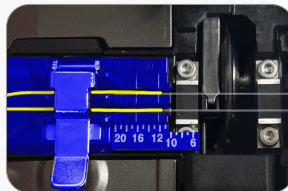
Fujikura 100S Fusion Splicer

Features

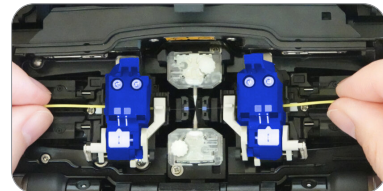


Fiber Stripper SS-05

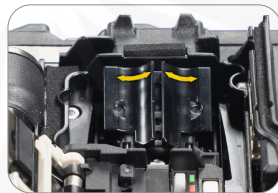
- ① For 2.3 mm
- ② For 900 μm
- ③ For 250 μm
- ④ For 250 μm



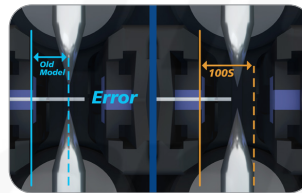
Dual Cleaving



Dual Fiber Loading



Fiber Placement Guide



Expanded Fiber Setting

Ordering Information

Description	AFL No.
Fujikura 100S Fusion Splicer (machine only) Includes: ADC-22 AC Adapter, ACC-19 AC Cord, BTR-19 Battery, ELCT2-16C Spare Electrodes (pair), Sheath Clamps, SP-05 Fiber Holder Set Plates, USB-02 Cable, Alcohol Dispenser, Splicer Carrying Strap, Quick Reference Guide, TS-04A Tripod Screw, Work Tray J-Plate, SS05 single fiber stripper, CC-48 Transit Case with Carrying Strap and Two-Year Warranty	S018656
Fujikura 100S Standard Fusion Splicer Kit (with cleaver) Includes: CT60 Cleaver, ADC-22 AC Adapter, ACC-19 AC Cord, BTR-19 Battery, ELCT2-16C Spare Electrodes (pair), Sheath Clamps, SP-05 Fiber Holder Set Plates, USB-02 Cable, Alcohol Dispenser, Splicer Carrying Strap, Quick Reference Guide, TS-04A Tripod Screw, Work Tray J-Plate, SS05 single fiber stripper, CC-48 Transit Case with Carrying Strap and Two-Year Warranty	S018655
Fujikura 100S Fusion Splicer without Bluetooth (machine only) Includes: ADC-22 AC Adapter, BTR-19 Battery, ACC-19 AC Cord, ELCT2-16C Spare Electrodes (pair), Sheath Clamps, SP-05 Fiber Holder Set Plates, USB-02 Cable, Alcohol Dispenser, Splicer Carrying Strap, Quick Reference Guide, TS-03 Tripod Screw, Work Tray J-Plate, SS03 Single Fiber Stripper, CC39 Transit Case with Carrying Strap and Two-Year Warranty	S018693
Fujikura SpliceReady 100S Splicer Kit includes: Fujikura 100S Standard Kit (S018655), FP-60 60 mm (single splice) protection sleeve (pack of 100), FCC2 fiber cleaning fluid (3 oz.), AFL WFW wipes mini tub (90 wipes), Kevlar scissors, FH-70-900 fiber holders (pair), FH-70-250 fiber holders, Mechanical Splice Fiber Holder (250 μm), Sharpie, Splicer V-groove cleaning kit, FH-FC-900 fiber holder (900 μm cable)	S018696
One-Year Extended Warranty	S012996
Two-Year Extended Warranty	S013000

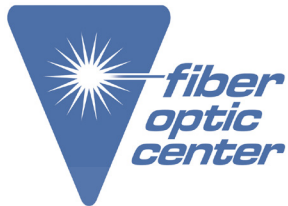
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Fujikura 100S Fusion Splicer

Recommended Products for the 100S

Description	AFL No.	Description	AFL No.
Cleavers		Miscellaneous	
CT-60 Cleaver	S018654	SS05 Dual Fiber Stripper (4 hole)	S018327
Fiber Holders (pair)		ELCT2-16C Electrodes	S018669
FH-70-250 (250 µm coated fiber)	S017111	SP-05 Fiber Holder Set Plates	S018671
FH-70-900 (900 µm coated fiber)	S017113	Portable Tripod Worktray Kit (see product profile for more detail)	S014773
FH-70-160 (160 µm coated fiber)	S017095	ASW-02 Splicing Workstation (see product profile for more detail)	S010532
FH-70-200 (200 µm coated fiber)	S017711	WT-11R Transit Case - Work Tray Right (100 Series)	S018674
FH-60-LT900 (Loose buffer 900 µm fiber)	S015181	WT-11L Transit Case - Work Tray Left (100 Series)	S018673
FUSEConnect® Accessories		JP-11 Work Tray J-Plate	S018675
FH-FC-20 (900 µm within 2.0 mm sheathing) (each)	S014696	JP-12 J-Plate (Cooling tray attaches to splicer)	S018681
FH-FC-30 (900 µm within 3.0 mm sheathing) (pair)	S014695	TS-04 Tripod Screw (100 Series)	S018677
FH-FC-900 (900 µm cable) (each)	S014697	CLAMP-DC-12 (Drop cable clamp for work tray)	S017550
CLAMP-FC-2000 (pair)	S014705	USB-02 Cable	S018668
CLAMP-FC-3000 (single holder)	S014704	CC-48 Transit Case	S018672
Power Supply Options and Equipment		Splicer V-Groove Cleaning Kit	S014397
ADC-22 AC Adapter	S018666	ST-03 Fusion Splicer Carrying Case Strap	S017549
ACC-19 AC Power Cord	S018667		
BTR-19 Battery	S018670		
DCC-20 Power Cord	S017527		
(connects AC Adapter to cigarette lighter socket)			
DCC-21 Power Cord	S017528		
(connects AC Adapter to power source via alligator clips)			

Specifications

Parameter	Value
Fiber Alignment Method	Active core alignment
Fiber Count Can Be Spliced	Single fiber
Applicable Fiber	Fiber Type
	Cladding Diameter
Applicable Coating	Sheath Clamp
	Splice Loss
Fiber Splice Performance	Splice Time
	Applicable Protection Sleeve
Sleeve Heat Performance	Heat Time
	Fiber Tensile Test Force
Electrode Life	
Physical Description	Dimensions W
	Dimensions D
	Dimensions H
	Weight

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Manufacturer:
AFL

Product Name:
AFL FH-70-900 Fiber Holders

Manufacturer Part Number:
S017113

▶ [Click here for more details on the AFL FH-70-900 Fiber Holders](#)

Fujikura 100S Fusion Splicer

Specifications (cont.)

Parameter	Value	
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. 5,000 m
AC Adaptor	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. 300 splice and heat cycles
	Temperature	Operate: -10 to 50°C Recharge: 0 to 40°C Storage < 1 year: -20 to 20°C; < 1 month: -20 to 50°C
	Battery Life	Approx. 500 recharge cycles
	Recharge Time	Approx. 4-6 hours from empty
Display	LCD Monitor	TFT 5 inches with touch screen
	Magnification	320x
Illumination	V-Grooves	LED lamp
Interface	PC	USB2.0 Type C (USB PD compatible)
	External Led Lamp	USB2.0 A type, Approx. DC5V, 500 mA
	Ribbon Stripper	Mini DIN 6 pin, DC12V, Max. 1A
	Wireless	Bluetooth 5.2 LE
Data Storage	Splice Mode	100 splice modes
	Heat Mode	30 heat modes
	Splice Result	20,000 splices
	Splice Image	100 images
Screw Hole For Tripod		1/4-20 UNC
Other Features	Automatic Functions	Splice mode select by fiber type analysis – Function Control and Discharge power calibration Wind protector: open/close Sheath clamp: open Heater lid: open/close Heater clamp: open/close
	Reference Guide	Video and PDF file stored in splicer
	Sheath Clamp	Easy sleeve positioning clamp Close with fiber set (optional) Guild for fiber loading (optional)
	Electrode	Replaceable without tool
	GPS	Document splice location into memory Security disable feature for out of region operation No tracking function

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Fujikura 45S Fusion Splicer

The 45S cladding alignment fusion splicer is changing the way people splice fiber in small to mid-fiber count applications. This Fujikura splicer debuts a landmark improvement to the fusion splicing process with the ability to prepare and load both fibers simultaneously. The hand-held fiber coating stripper, the SS-05, is capable of stripping two 250 µm coated fibers in the same pass, along with the CT-16A cleaver adapter plate which can likewise accommodate two bare fibers for cleaving. After preparation, the 45S patented sheath clamps enable loading both fibers simultaneously into the splicer with one fiber in each hand. The user can press down on the sheath clamp base to close it while positioning the fiber in the V-grooves. This enables one-handed operation.

Furthermore, the 45S sheath clamps are mechanically linked to the wind protector, so after splicing is finished, opening the wind protector also opens both sheath clamps for quick sleeve positioning and transfer to the tube heater. The 45S tube heater shrinks sleeves much faster than its predecessor with a nominal ~20 second heat time for 60 mm sleeves down from ~26 seconds. The simultaneous fiber preparation capability, automated sheath clamp opening, and a faster tube heater, combine to lower the overall fusion splicing cycle time by ~30% or more.

The 45S continues to benefit the user experience with improvements to fiber placement, battery access, and machine ergonomics. Previously, when using sheath clamps, if the cleaved fiber was accidentally set past the electrode centerline, the machine would send an error and require manual intervention. The 45S will now accept this mistake and reverse the fiber to correct position automatically. With a cube form factor, the 45S is easily transported and operated in space-constrained environments. With the AFL Tote Solution installed, the 45S transit case securely integrates with Milwaukee's PACKOUT™ system, offering faster transport, stability, and time-savings for contractors and technicians. The adjustable screen can alleviate glare from the sun and adjust with abnormal splicer positions confronted in challenging splice locations.

Features

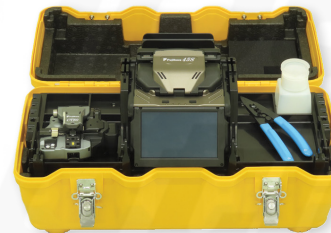
- Simultaneous fiber preparation with newly patented sheath clamp design
- Sheath clamps automatically opened with the wind protector
- Automatic fiber placement correction
- Active Fusion Control for arc optimization with every splice
- Active Blade Management for cleave quality monitoring and correction
- Easy-access battery, screen position adjustments, and ergonomic adaptations
- Fully ruggedized for shock, moisture and dust resistance

Applications

- 5G Small Cell Site
- FTTx drops and terminations
- MDF/IDF splices and terminations
- Rural fiber deployments and restorations



45S



45S Standard Kit



45S on Tripod

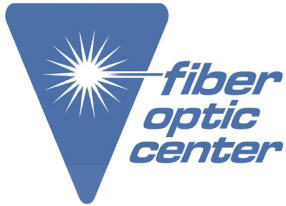
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Manufacturer:
AFL

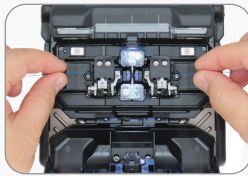
Product Name:
AFL FH-70-900 Fiber Holders

Manufacturer Part Number:
S017113

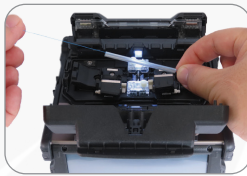
▶ [Click here for more details on the AFL FH-70-900 Fiber Holders](#)

Fujikura 45S Fusion Splicer

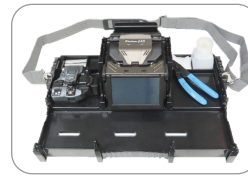
Features



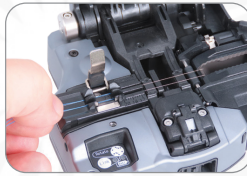
Simultaneous Fiber Loading



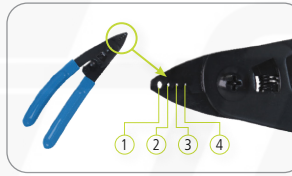
Sleeve Positioning



Work Tray with Neck Strap



CT-16A Adapter Plate on CT-50



Fiber stripper SS-05

- 1 For 2.3 mm
- 2 For 900 μm
- 3 For 250 μm
- 4 For 250 μm

Ordering Information

DESCRIPTION	AFL NO.
Fujikura 45S Standard Kit includes: CT-50 cleaver, SS-05 single fiber stripper, 1 pair each FH-70-250 and FH-70-900 fiber holders, SP-04 set plates, ELCT2-16B Spare Electrodes (Pair), ADC-21 AC Adapter, BTR-17 Battery Pack (installed), ACC-09 Power Cord, USB-01 USB Cable, AP-02 Alcohol Container, WT-10 work tray, ST-03 carrying case strap, TS-03 tripod screw, CC-45 Transit Case, 1-year factory warranty, and instruction manual downloaded from splicer	S018318
Fujikura 45S Kit without Cleaver includes: SS-05 single fiber stripper, 1 pair each FH-70-250 and FH-70-900 fiber holders, SP-04 set plates, ELCT2-16B Spare Electrodes (Pair), ADC-21 AC Adapter, BTR-17 Battery Pack (installed), ACC-09 Power Cord, USB-01 USB Cable, AP-02 Alcohol Container, WT-10 work tray, ST-03 carrying case strap, TS-03 tripod screw, CC-45 Transit Case, 1-year factory warranty, and instruction manual downloaded from splicer	S018319
Fujikura SpliceReady 45S Splicer Kit includes: Fujikura 45S Standard Kit (S018318), FP-60 60 mm (single splice) protection sleeve (pack of 100), FCC2 fiber cleaning fluid (3 oz.), AFL WFW wipes mini tub (90 wipes), One-Click Cleaner® MU/LC, One-Click Cleaner SC/FC/ST, Clamp-35B loose buffer sheath clamp, Kevlar scissors, Mechanical Splice Fiber Holder (250 μm), Sharpie pen, FH-FC-900 (900 μm cable)	S018581
One-Year Extended Warranty	S012996
Two-Year Extended Warranty	S013000

Recommended Accessories

DESCRIPTION	AFL NO.	DESCRIPTION	AFL NO.
Cleavers and Strippers		Power Supply Options	
CT-50 Fiber Cleaver	S017030	BTR-17 Battery Pack	S018324
CT-16 Fiber Cleaver	S018330	ADC-21 AC Adapter	S018168
SS-05 Dual Fiber Stripper	S018327	ACC-09 Power Cord	S014390
Fiber Holders		Miscellaneous	
CLAMP-S35A Standard Sheath Clamp	S018464	WT-10 Work Tray	S018336
CLAMP-S35B Loose Buffer Tube Clamp	S018333	TS-03 Tripod Screw	S017524
FH-70-250 (250 μm single fiber)	S017111	ST-03 Carrying Case and Work Tray Strap	S017549
FH-70-200 (200 μm single fiber)	S017711	CLAMP-DC-12 drop cable clamp on work tray	S017550
FH-70-900 Fiber Holders (900 μm single fiber)	S017113	ELCT2-16B Electrodes	S017103
FH-60-LT900 (900 μm loose buffer tube)	S015181	CC-45 Transit Case	S018326
FUSEConnect® Accessories		Splicer V-Groove Cleaning Kit	S014397
FH-FC-20 (900 μm within 2.0 mm sheathing) (each)	S014696	USB-01 USB Cable	S014777
FH-FC-30 (900 μm within 3.0 mm sheathing) (pair)	S014695	SP-04 Fiber Holder Set Plates	S018332
FH-FC-900 (900 μm cable) (each)	S014697	AD-16A Adapter Plate (CT-50 and CT-16 up to 900 μm)	S018328
CLAMP-FC-2000 (pair)	S014705	Portable Tripod Workstation (see web listing for more detail)	S014773
CLAMP-FC-3000 (pair)	S014704	AFL Tote Solution - Cleat Installation Service	S018623

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Fujikura 45S Fusion Splicer

Specifications

PARAMETER	VALUE	
Fiber alignment method	Active cladding alignment	
Fiber count can be spliced	Single fiber	
Applicable fiber	Fiber type	Single-mode optical fiber
	Cladding dia.	Multimode optical fiber
Applicable coating	Sheath Clamp	Approx. 125 µm
	Fiber Holder	Coating diameter: Max. 3,000 µm Cleave length: 5 to 16 mm ^{*1}
Fiber splice performance	Splice loss ^{*2}	Coating diameter: 160 µm – 3,000 µm based on available fiber holder options
		Cleave length: Approx. 10 mm
Fiber splice performance	Splicing time ^{*3}	ITU-T G.652: Avg. 0.03dB
		ITU-T G.651: Avg. 0.01dB
Applicable protection sleeve	Sleeve type	ITU-T G.653: Avg. 0.05dB
		ITU-T G.655: Avg. 0.05dB
Sleeve heat performance	Heat time ^{*4}	ITU-T G.657: Avg. 0.03dB
		SM FAST mode: Avg. 6 to 7 sec.
Fiber tensile test force	Sleeve length	SM AUTO mode: Avg. 8 to 10 sec.
		Sleeve dia.
Electrode life ^{*5}	Heat time ^{*4}	Max. 66 mm
		60 mm mode: Avg. 15 to 22 sec.
Physical description	Dimensions W	60 mm slim mode: Avg. 15 to 17sec.
		Dimensions D
Environmental condition	Humidity	Approx. 6,000 splices
		Altitude
AC adaptor	Input	Approx. 123 mm without projection
		Output
Battery pack	Type	Approx. 1.4 kg including battery
		Output
Display	Capacity ^{*6}	Storage : -40 to 80°C
		Temperature
Illumination	Temperature	Storage : 0 to 95% non-condensing
		Battery life ^{*7}
Interface	External LED lamp	AC100 to 240V, 50/60Hz, Max. 1A
		Wireless ^{*8}

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Fujikura 45S Fusion Splicer

Specifications

PARAMETER		VALUE
Data storage	Splice mode	100 splice modes
	Heat mode	30 heat modes
	Splice result	20,000 splices
	Fiber image	100 images
Screw hole for tripod		1/4-20UNC
Other features	Automatic functions	Fusion control
		Blade management and control
		Splice start
	Reference guide	Heater start
		PDF file stored on splicer
		Open with/without wind protector
Sheath clamp		Close when setting fiber
Electrode		Easy sleeve positioning design
PC Software		Tool-less replacement
		Splicer firmware update via internet
		Parameter Upload and download

- *1 Cleave length range depending on fiber type
 5 – 16 mm: 125 µm cladding dia. And 250 µm coating dia.
 10 – 16 mm: 125 µm cladding dia. And 400 or 900 µm coating dia.
- *2 Measured with cut-back method relevant to ITU-T and IEC standard after splicing Fujikura identical fibers. The average splice loss changes depending on the environmental condition and fiber characteristics.
- *3 Measured at room temperature. The definition of splice time is from the fiber image appearing on the LCD monitor to the estimated splice loss. The average splice time changes depending on the environmental conditions, fiber type, and fiber characteristics.
- *4 Measured at room temperature with the AC adapter. The heat time is defined from the start beep sound to the finish beep sound. The average heat time changes depending on the environmental conditions, sleeve type, and battery pack condition. In addition, since the heating operation is constantly optimized, the average heating time changes depending on the usage conditions of the fusion splicer.
- *5 The electrode life changes depending on the environmental conditions, fiber type, and splice modes used.
- *6 Test Conditions
 Splice and heat time: 1 minute cycle
 Using the splicer power save settings, subject to our testing condition
 Using a new battery
 Room temperature
 The battery capacity changes when testing in different conditions than above
- *7 The battery capacity decreases to half after approx. 500 discharge and recharge cycles. The battery life is shortened further when using outside of the storage and operating temperature ranges, or if completely discharged when stored for an extended period without recharging.
- *8 Bluetooth mark and logos are registered trademarks of Bluetooth SIG, Inc.

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