Learn More

Manufacturer:
AFL

Product Name:
AFL FH-60-LT900 Fiber Holders

Manufacturer Part Number:
S015181

Click here for more details on the AFL FH-60-LT900 Fiber Holders

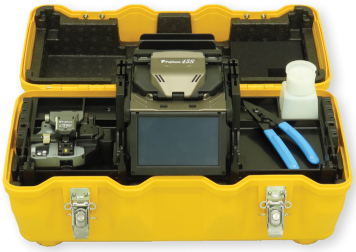
Fujikura 45S Fusion Splicer

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. The adjustable screen can alleviate glare from the sun and adjust with abnormal splicer positions confronted in challenging splice locations.

45S



45S Standard Kit

45S on Tripod

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

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

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23 Centre Street • New Bedford, MA 02740 USA

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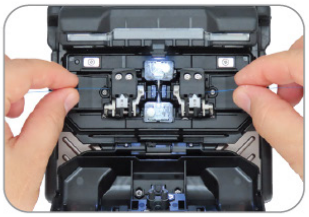
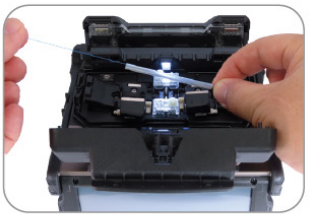
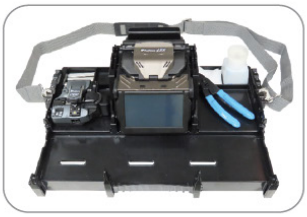
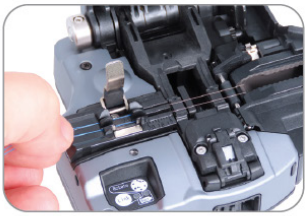
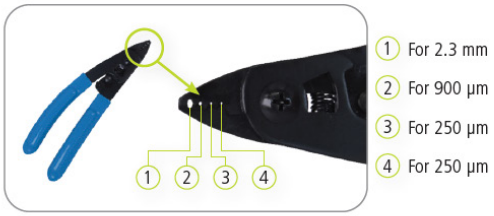
Features


Simultaneous Fiber Loading


Sleeve Positioning


Work Tray with Neck Strap


CT-16A Adapter Plate on CT-50



Fiber stripper SS-05

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, FH-FC-900 (900 µm cable), 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

Recommended Accessories

DESCRIPTION	AFL NO.
Cleavers and Strippers	
CT-50 Fiber Cleaver	S017030
CT-16 Fiber Cleaver	S018330
Fiber Holders	
CLAMP-S35B Loose Buffer Tube Clamp	S018333
FH-70-250 (250 µm single fiber)	S017111
FH-70-900 Fiber Holders (900 µm single fiber)	S017113
FH-60-LT900 (900 µm loose buffer tube)	S015181

DESCRIPTION	AFL NO.
Power Supply Options	
BTR-17 Battery Pack	S018324
ADC-21 AC Adapter	S018168
ACC-09 Power Cord	S014390
Miscellaneous	
ELCT2-16B Electrodes	S017103
Splicer V-Groove Cleaning Kit	S014397

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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 Multimode optical fiber
	Cladding dia.	Approx. 125 µm
Applicable coating	Sheath Clamp	Coating diameter: Max. 3,000 µm Cleave length: 5 to 16 mm *1
	Fiber Holder	Coating diameter: 160 µm – 3,000 µm based on available fiber holder options Cleave length: Approx. 10 mm
Fiber splice performance	Splice loss *2	ITU-T G.652: Avg. 0.03dB ITU-T G.651: Avg. 0.01dB ITU-T G.653: Avg. 0.05dB ITU-T G.655: Avg. 0.05dB ITU-T G.657: Avg. 0.03dB
	Splicing time *3	SM FAST mode: Avg. 6 to 7 sec. SM AUTO mode: Avg. 8 to 10 sec.
Applicable protection sleeve	Sleeve type Sleeve length Sleeve dia.	Heat shrinkable sleeve Max. 66 mm Max. 6.0 mm before shrinking
Sleeve heat performance	Heat time *4	60 mm mode: Avg. 15 to 22 sec. 60 mm slim mode: Avg. 15 to 17sec.
Fiber tensile test force		Approx. 2.0 N
Electrode life *5		Approx. 6,000 splices
Physical description	Dimensions W Dimensions D Dimensions H Weight	Approx.131 mm without projection Approx.123 mm without projection Approx.121 mm without projection Approx. 1.4 kg including battery
Environmental condition	Temperature	Operate : -10 to 50°C Storage : -40 to 80°C
	Humidity	Operate : 0 to 95% non-condensing Storage : 0 to 95% non-condensing
	Altitude	Max. 5,000 m
AC adaptor	Input Output	AC100 to 240V, 50/60Hz, Max. 1A Approx. DC 19V, Max. 2.1A
Battery pack	Type	Rechargeable Lithium Ion
	Output	Approx. DC14.4V / 3,190mAh
	Capacity *6	60 mm heat mode: Approx. 200 splice & heat cycles 60 mm slim heat mode: Approx. 230 splice & heat cycles
	Temperature	Operate: -10 to 50°C Recharge : 0 to 40°C Short term storage of 30 days: -20 to 50°C Long term storage: -20 to 30°C
	Battery life *7	Approx. 500 recharge cycles
Display	LCD monitor Magnification	TFT 4.95 inches with touch screen Approx. 132 to 300X
Illumination	V-grooves	LED lamp
Interface	PC External LED lamp Wireless *8	USB2.0 MINI B type USB 2.0 A type Approx. DC5V, 500mA Bluetooth® 5.2

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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
		Heater start
	Reference guide	PDF file stored on splicer
	Sheath clamp	Open with/without wind protector
		Close when setting fiber
		Easy sleeve positioning design
	Electrode	Tool-less replacement
	PC Software	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.