

AFL

Product Name:

AFL FSM-45S Fusion Splicer (battery)

Manufacturer Part Number:

S018319

Click here for more details on the AFL FSM-45S Fusion Splicer (battery)

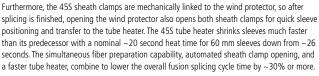


Fusion Splicing



Fujikura 45S Fusion SplicerThe 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.



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 Standard Kit



45S on Tripod

Applications

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

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

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Feature:









Simultaneous Fiber Loading Sleeve Po

Work Tray with Neck Strap





Fiber stripper SS-05

Ordering Information

DESCRIPTION	AFL NO.
Fujikura 45S Standard Kit	S018318
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	
Fujikura 45S Kit without Cleaver	S018319
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	
One Year Extended Warranty	S012996
Two Year Extended Warranty	S013000

Recommended Accessories

DESCRIPTION	AFL NO.	
Cleavers AND STRIPPERS		
CT-50 Fiber Cleaver	S017030	
CT-16 Fiber Cleaver	S018330	
SS-05 Dual Fiber Stripper	S018327	
Fiber Holders		
CLAMP-S35B Loose Buffer Sheath Clamp	5018333	
FH-70-250 (250 μm single fiber)	S017111	
FH-70-200 (200 µm single fiber)	S017711	
FH-70-900 Fiber Holders (900 μm single fiber)	S017113	
FH-60-LT900 (900 µm loose buffer tube)	S015181	
FUSEConnect® Accessories		
FH-FC-20 (900 µm within 2.0 mm sheathing) (each)	S014696	
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	
CLAMP-FC-3000 (pair) S0		

DESCRIPTION	AFL NO.
Power Supply Options	
BTR-17 Battery Pack	S018324
ADC-21 AC Adapter	S018168
ACC-09 Power Cord	S014390
Miscellaneous	
WT-10 Work Tray	S018336
TS-03 Tripod Screw	S017524
ST-03 Carrying Case and Work Tray Strap	S017549
CLAMP-DC-12 drop cable clamp on work tray	S017550
ELCT2-16B Electrodes	S017103
CC-45 Transit Case	S018326
Splicer V-Groove Cleaning Kit	S014397
USB-01 USB Cable	S014777
SP-04 Fiber Holder Set Plates	S018332
AD-16A Adapter Plate (CT-50 and CT-16 up to 900 um)	S018328
Portable Tripod Workstation (see web listing for more detail)	S014773

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Specifications

PARAMETER		VALUE	
Fiber alignment method		Active cladding alignment	
Fiber count can be spliced		Single fiber	
Applicable fiber	Fib +	Single-mode optical fiber	
	Fiber type	Multimode optical fiber	
''	Cladding dia.	Approx. 125 μm	
	Sheath Clamp	Coating diameter: Max. 3,000 µm	
		Cleave length: 5 to 16 mm *1	
Applicable coating	Fiber Holder	Coating diameter: 160 µm – 3,000 µm based on available fiber holder options	
		Cleave length: Approx. 10 mm	
	Splice loss*2	ITU-T G.652: Avg. 0.03dB	
		ITU-T G.651: Avg. 0.01dB	
		ITU-T G.653: Avg. 0.05dB	
Fiber splice performance	1,	ITU-T G.655: Avg. 0.05dB	
		ITU-T G.657: Avg. 0.03dB	
		SM FAST mode: Avg. 6 to 8 sec.	
	Splicing time *3	SM AUTO mode: Avg. 8 to 11 sec.	
	Sleeve type	Heat shrinkable sleeve	
Applicable protection sleeve	Sleeve length	Max. 66 mm	
, ipplicable protection sieeve	Sleeve dia.	Max. 6.0 mm before shrinking	
		60 mm mode: Avg. 21 to 23 sec.	
Sleeve heat performance	Heat time *4	60 mm slim mode: Avg. 16 to 18 sec.	
Fiber tensile test force		Approx. 2.0 N	
Electrode life *5		Approx. 6,000 splices	
Electrode inc	Dimensions W	Approx.131 mm without projection	
	Dimensions D	Approx.131 mm without projection	
Physical description	Dimensions H	Approx.121 mm without projection	
	Weight	Approx. 1.4 kg including battery	
	Weight	Operate : -10 to 50°C	
	Temperature	Storage : -40 to 80°C	
Environmental condition		Operate : 0 to 95% non-condensing	
Environmental condition	Humidity	Storage : 0 to 95% non-condensing	
	Altitude	Max. 5,000 m	
	Input	AC100 to 240V, 50/60Hz, Max. 1A	
AC adaptor	Output	Approx. DC 19V, Max. 2.1A	
	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	
Battery pack		Operate: -10 to 50°C	
battery pack		Recharge: 0 to 40°C	
	Temperature	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	TFT 4.95 inches with touch screen	
	Magnification	Approx. 132 to 300X	
Illumination	V-grooves	LED lamp	
mummation	PC PC	USB2.0 MINI B type	
Interface	1 C	USB 2.0 A type	
	External LED lamp	Approx. DC5V, 500mA	
	Wireless *8	Bluetooth® 5.2	
	ANILGIG22 -	Diuetootii 5.2	

Single Fiber Splicers

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





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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

NOTES:

- *1 Cleave length range depending on fiber type
 - 5-16 mm: 125 μ m cladding dia. And 250 μ m 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.