



12S (with Cleaver for scale)



Workstation in Transit Case



Workstation on Transit Case



Fujikura 12S Kit 1

## Fujikura 12S and 12S-C Fusion Splicer

The Fujikura 12S is the world's smallest, lightest and most portable fusion splicer available today. Despite its incredibly small size, this ruggedized, full-featured unit offers unmatched versatility for splicing in the most challenging environments. The innovative transit case and work tray provide multiple options for the best utilization of available work space while the long life battery provides power for up to 100 splice cycles which include application of the splice protection sleeve.

The Fujikura 12S incorporates features typically found only in more expensive models. The large 4.5" monitor provides a crystal clear image, even in the brightest sunlight, for evaluating splice quality. The electrode life has been extended to 3,000 splices, minimizing downtime for replacement and stabilization. Software updates are accomplished via the internet allowing users to quickly update their software as new splice programs become available. The fully ruggedized chassis provides for shock, dust and moisture protection while the two camera observation system provides for accurate fiber alignment and loss estimation calculations. The Fujikura 12S is also fully compatible with the FUSEConnect® line of fusion installable connectors.

The 12S model is offered with 2 pairs of fiber holders and cannot be fitted with sheath clamps. The 12S-C is provided with sheath clamps but can be used with optional fiber holders if that is desired.

Backed by the best service team in the industry, the Fujikura 12S is the ideal splicer to use when portability, ruggedness, versatility and reliability are needed for your splicing application.

### Features

- World's smallest splicer at 4.76"W x 6.38"D x 2.24"H
- Fully ruggedized for shock, moisture and dust resistance
- Transit case converts to easy to use workstation
- Dual camera, fixed v-groove alignment technology
- Extended life electrodes
- Long life battery (100 splices/shrinks per charge)

### Fujikura 12S Ordering Information

DESCRIPTION	AFL NO.
<b>Fujikura 12S Fusion Splicer</b> <b>Includes:</b> Fujikura 12S Fusion Splicer, ADC-19 AC Adapter, BTR-10 Battery Pack (installed), FH-60-250 Fiber Holders (pair), FH-60-900 Fiber Holder, ACC-09 Power Cord, ELCT2-12 Spare Electrodes (pair), Operation Manual on CD, Quick Reference Guide, AP-01 Alcohol Container, SD01 Screwdriver and CC-29 Transit Case	S015521
<b>Fujikura 12S Fusion Splicer Kit 1</b> <b>Includes:</b> Fujikura 12S Fusion Splicer, CT50 Cleaver, ADC-19 AC Adapter, BTR-10 Battery Pack (installed), FH-60-250 Fiber Holders (pair), FH-60-900 Fiber Holders (pair), ACC-09 Power Cord, ELCT2-12 Spare Electrodes (pair), Operation Manual on CD, Quick Reference Guide, AP-01 Alcohol Container, SD01 Screwdriver and CC-29 Transit Case	S015522
<b>Fujikura 12S Fusion Splicer Kit 2</b> <b>Includes:</b> Fujikura 12S Fusion Splicer, CT08 Cleaver, ADC-19 AC Adapter, BTR-10 Battery Pack (installed), FH-60-250 Fiber Holders (pair), FH-60-900 Fiber Holders (pair), ACC-09 Power Cord, ELCT2-12 Spare Electrodes (pair), Operation Manual on CD, Quick Reference Guide, AP-01 Alcohol Container, SD01 Screwdriver and CC-29 Transit Case	S015530
One Year Extended Warranty	S012996
Two Year Extended Warranty	S013000

## Fujikura 12S and 12S-C Fusion Splicer

### Fujikura 12S-C Ordering Information

DESCRIPTION	AFL NO.
<b>Fujikura 12S-C Fusion Splicer</b> <b>Includes:</b> Fujikura 12S-C Fusion Splicer, ADC-19 AC Adapter, BTR-10 Battery Pack (installed), CLAMP-S21A Sheath Clamp, ACC-09 Power Cord, ELCT2-12 Spare Electrodes (pair), Operation Manual on CD, Quick Reference Guide, AP-01 Alcohol Container, SD01 Screwdriver and CC-29 Transit Case	S016781
<b>Fujikura 12S-C Fusion Splicer Kit 1</b> <b>Includes:</b> Fujikura 12S-C Fusion Splicer, CT50 Cleaver, ADC-19 AC Adapter, BTR-10 Battery Pack (installed), CLAMP-S21A Sheath Clamp, ACC-09 Power Cord, ELCT2-12 Spare Electrodes (pair), Operation Manual on CD, Quick Reference Guide, AP-01 Alcohol Container, SD01 Screwdriver and CC-29 Transit Case	S016782
<b>Fujikura 12S Fusion-C Splicer Kit 2</b> <b>Includes:</b> Fujikura 12S-C Fusion Splicer, CT08 Cleaver, ADC-19 AC Adapter, BTR-10 Battery Pack (installed), CLAMP-S21A Sheath Clamp, ACC-09 Power Cord, ELCT2-12 Spare Electrodes (pair), Operation Manual on CD, Quick Reference Guide, AP-01 Alcohol Container, SD01 Screwdriver and CC-29 Transit Case	S016783

### Recommended Accessories for the 12S and 12S-C

DESCRIPTION	AFL NO.	Miscellaneous	AFL NO.
<b>Cleavers</b>		Worktable Set	S015817
CT08 Cleaver	S017004	TS-01 TRIPOD SCREW (M8)	S015895
CT50 Cleaver	S017030	TS-02 Tripod Screw (1/4-20UNC)	S016389
<b>Fiber Holders</b>		CLAMP-S21A Sheath Clamps (for 12S-C only)	S016852
FH-60-250 Fiber Holder (pair)	S014548	CLAMP-S21B Sheath Clamps (for 12S-C only)	S016853
FH-60-900 Fiber Holder (pair)	S014549	900 $\mu$ m diameter loose tube fiber (5-16 mm cleave)	
FH-60-LT900 Fiber Holder (pair)	S015181	ELCT2-12 Electrodes	S014028
<b>FUSEConnect® Accessories</b>		ADC-19 AC Adapter	S015523
FH-FC-20 (900 $\mu$ m within 2.0 mm sheathing) (each)	S014696	ACC-09 Power Cord	S014390
FH-FC-30 (900 $\mu$ m within 3.0 mm sheathing) (pair)	S014695	AP-01 Alcohol Container	S015525
FH-FC-900 (900 $\mu$ m cable) (each)	S014697	SD-01 Screwdriver	S015526
CLAMP-FC-2000 (pair)	S014705	CC-29 Transit Case	S015524
CLAMP-FC-3000 (pair)	S014704	USB Cable	S014777
<b>DESCRIPTION</b>	<b>AFL NO.</b>	Splicer V-Groove Cleaning Kit	S014397
<b>Batteries</b>			
BTR-10 Battery Pack	S015527		

### Specifications

PARAMETER	VALUE
Model	12S and 12S-C Fusion Splicer
Applicable Fibers	Single-mode (G.652 & G.657), Multimode (G.651), DSF (G.653), NZDS (G.655)
Cladding Diameter	125 $\mu$ m
Coating Diameter	250 $\mu$ m or 900 $\mu$ m
Fiber Cleave Length	5 mm to 13 mm
Typical Average Splice Loss	0.05 dB (SM), 0.02 dB (MM), 0.08 dB (DS) and 0.08 dB (NZDS)
Splicing Time	Typical 15 sec with SM
Arc Calibration Method	Automatic, real-time and by using results of previous splice when in AUTO mode, manual arc calibration function available
Splicing Modes	Total 100 splice modes
Splice Loss Estimate	Based on dual camera cladding alignment data
Storage of Splice Result	Last 2,000 splices
Fiber Display	4.5 inch TFT color LCD with X or Y view or both X and Y view simultaneously
Magnification	100X magnification for X/Y view
Viewing Method	2 axis CMOS camera
Operating Condition	Altitude: 0 to 3,660 m above sea level, -10° to 50° C, Humidity: 0 to 95% RH, non-dew
Mechanical Proof Test	1.96 N
Tube Heater	30 heating modes
Tube Heating Time	Typical 30 sec with FP-03 (60 mm) sleeve
Protection Sleeve Length	60 mm, 40 mm, micro
Splice/Heat Cycles with Battery	Typical 100 cycles with BTR-10
Electrode Life	3,000 splices
Power Supply	Auto select from 100 V to 240 V with AC adapter, 14.8 V DC with installed battery
Terminals	USB 2.0
Wind Protection	Maximum wind velocity of 15 m/s. (34 mph)
Dimensions	121 x 162 x 57 (mm) / 4.76 x 6.38 x 2.24 (inches)
Weight	.776 kg (1.71 lbs) with battery