FAFL

Fusion Splicing Systems

12S (with Cleaver for scale)

Workstation in Transit Case

Workstation on Transit Case

Fujikura 12S Kit 1

Fujikura 12S 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.

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)

Ordering Information

DESCRIPTION	AFL NO.
Fujikura 12S Fusion Splicer Includes: 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
Fujikura 12S Fusion Splicer Kit 1 Includes: Fujikura 12S Fusion Splicer, CT-30 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
Fujikura 12S Fusion Splicer Kit 2 Includes: Fujikura 12S Fusion Splicer, CT-06 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 Fusion Splicer

Recommended Accessories for the 12S

DESCRIPTION	AFL NO.
Cleavers	
CT-06 Cleaver (for single fibers)	S015588
CT-30 Cleaver (for single to 12 ribbon fibers)	S014076
Fiber Holders	
FH-60-250 Fiber Holder (pair)	S014548
FH-60-900 Fiber Holder (pair)	S014549
FH-60-LT900 Fiber Holder (pair)	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)	S014704

DESCRIPTION	AFL NO.
Batteries	
BTR-10 Battery Pack	S015527
Miscellaneous	
Worktable Set	S015817
TS-01 Tripod Screw	S015895
ELCT2-12 Electrodes	S014028
ADC-19 AC Adapter	S015523
ACC-09 Power Cord	S014390
AP-01 Alcohol Container	S015525
SD-01 Screwdriver	S015526
CC-29 Transit Case	S015524
USB Cable	S014777

Specifications

PARAMETER	VALUE
Model	12S Fusion Splicer
Applicable Fibers	Single-mode (G.652 & G.657), Multimode (G.651), DSF (G.653), NZDS (G.655)
Cladding Diameter	125 µm
Coating Diameter	250 µm or 900 µm
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