



FSM-18S Fusion Splicer



Detachable Work Table

Also available with 4-fiber ribbon splicer, model FSM-18R!

The FSM-18S Fusion Splicer is a low cost, fixed V-groove, single fiber fusion splicer with the same robust features offered in other high end models. The new rugged construction adds improved reliability by resisting shock, dust, and rain, and withstands a 30" drop test.

New features such as automatic tube heater operation, user-selectable clamping method (sheath clamp or fiber holder system), automated monitor image orientation, and battery charge capability during splicer operation provide the end user a reliable productivity tool. New software is included with each splicer and provides the user with the ability to download splice data to a PC for splice data reporting, download splicer operating software via the internet to maintain peak performance, and download video images from the splicer to enhance technical support.

Features

- Rugged construction providing shock, dust and moisture resistance
- Dual monitor position with automatic image orientation
- Automatic arc calibration
- User-selectable fiber clamping method – sheath clamp or fiber holders
- Auto-start tube heater
- Color LCD display and anti-reflective coating for excellent visibility in bright sunlight
- Simultaneous battery charge and splicer operation
- Long life battery (up to 150 splice/heat cycles per charge)
- Detachable work table incorporated into the transit case
- Data and video download software and splicer upgrade software included; software upgrades through PC application via the internet
- Green friendly – RoHS & WEEE compliant

Ordering Information

DESCRIPTION	AFL NO.
FSM-18S Fusion Splicer (machine only) Includes: ADC-13 AC Adapter, ACC-14 AC Cord, Spare Electrodes (pair), S60A Sheath Clamp, USB Cable, Splicer Carrying Strap, Quick Reference Guide, Video Instruction Manual, JP-05 Splice Sleeve Cooling Tray, and Transit Case with Carrying Strap	S014527
FSM-18S Fusion Splicer Kit (with cleaver) Includes: CT30A Cleaver, ADC-13 AC Adapter, ACC-14 AC Cord, Spare Electrodes (pair), S60A Sheath Clamp, USB Cable, Splicer Carrying Strap, Quick Reference Guide, Video Instruction Manual, JP-05 Splice Sleeve Cooling Tray, and Transit Case with Carrying Strap	S014528
FSM-18S Fusion Splicer Kit (with cleaver, battery and cord) Includes: BTR-08 Battery, DCC-14 Battery Charge Cord, CT30A Cleaver, ADC-13 AC Adapter, ACC-14 AC Cord, Spare Electrodes (pair), S60A Sheath Clamp, USB Cable, Splicer Carrying Strap, Quick Reference Guide, Video Instruction Manual, JP-05 Splice Sleeve Cooling Tray, and Transit Case with Carrying Strap	S014560

FSM-18S Fusion Splicer

Specifications

Parameter	Value
Model	FSM-18S Fusion Splicer
Applicable Fibers	Single-mode (G.652), Multimode (G.651), DS (G.653), NZDS (G.655)
Cladding Diameter	125µm
Coating Diameter	100µm to 1000µm
Fiber Cleave Length	8 to 16mm with 250µm coating diameter, 16mm with 900µm coating diameter
Typical Average Splice Loss	0.05dB with SM, 0.02dB with MM, 0.08dB with DS, 0.08dB with NZDS, measured by cut-back method relevant to ITU-T and IEC standards
Splicing Time	Typical 11 seconds with standard single-mode fiber
Arc Calibration Method	Automatic, real-time by using results of previous splice when in AUTO mode; manual arc calibration function available
Splicing Modes	100 preset and user programmable modes
Splice Loss Estimate	Based upon dual camera cladding axis alignment data
Storage of Splice Result	Last 2000 results to be stored in the internal memory
Fiber Display	X or Y, or both X and Y simultaneously; front or rear monitor display options with automated image orientation
Magnification	300X for single X or Y view, or 187X for X and Y view
Viewing Method	Dual cameras with 4.1 inch TFT color LCD monitor with anti-reflective coating
Operating Condition	0 to 3,660m above sea level, 0 to 95% RH, -10 to 50°C respectively
Mechanical Proof Test	1.96 to 2.25N
Tube Heater	Built-in tube heater with 30 heating modes; auto-start function
Tube Heating Time	Typical 30 seconds with FP-03 sleeve, 35 seconds with FP3 (40), 35-55 seconds with Fujikura micro sleeves
Protection Sleeve Length	60mm, 40mm, micro
Splice/Heat with Battery	Typical 150 cycles with power save functions activated
Power Supply	Auto voltage selection from 100 to 240V AC or 10 to 15V DC with ADC-1, 13.2V DC with BTR-08 battery
Terminals	USB 1.1 (USB-B type) for PC communication, Mini-DIN (6-pin) for HJS-02/03 and SH-8 tube heater
Wind Protection	Maximum wind velocity of 15m/s. (34 mph)
Dimensions	136W x 161D x 143H (mm) / 5.3W x 6.3D x 5.6H (inches)
Weight	2.1 kg (4.6 lbs) with AC adapter ADC-11; 2.5kg (5.5 lbs) with BTR-08 battery

Accessories Recommended for the FSM-18S

DESCRIPTION	AFL NO.	DESCRIPTION	AFL NO.
Cleavers		Miscellaneous	
CT-30A Cleaver	S014080	ELCT2-20A Electrodes	S013532
Fiber Holders (pairs)		Portable Tripod Workstation	S014773
FH-60-250 Fiber Holder	S014548	ASW-02 Splicing Workstation	S010532
FH-60-900 Fiber Holder	S014549	JP-05 Splice Sleeve Cooling Tray	S014537
Batteries and Power Cords		CLAMP-S60A Sheath Clamp	S014550
ADC-13 AC Adapter	S014535	(8mm min cleave for 250µm, 16mm min cleave for 900µm)	
BTR-08 Battery (160 splice/heat cycles)	S014540	CLAMP-S60B Sheath Clamp	S014551
DCC-14 Battery Charge Cord (BTR-08)	S014541	(8mm min cleave for 250µm and 900µm)	
DCC-12 Power Cord	S013552	CLAMP-S60C Sheath Clamp	S014552
(connects ADC-13 to cigarette lighter socket)		(16mm cleave for 900µm loose tube fiber)	
DCC-13 Power Cord	S013556	CLAMP-S60D Sheath Clamp	S014750
(connects ADC-13 to power source via alligator clips)		(8mm - 16mm cleave for 900µm loose tube fiber)	
ACC-14 AC Power Cord	S014536	CC-24-60S Transit Case (fits only FSM-60S)	S014559