

Single Fibre Fusion Splicer

FSM-18S



Faster – Smaller – Lighter – Tougher - Smarter

Features

- Highly durable – designed for tough environments
- Suitable for single fibre splicing
- Cladding alignment with fixed V-groove
- Auto-start tube heater
- Optional fibre clamping methods
- Splice image capture facility
- Includes multi-function worktable
- RoHS compliant



Fujikura

EUROPE LTD

SPECIFICATIONS	
Applicable fibres	SM (ITU-T G.652), MM (ITU-T G.651), DS (ITU-T G.653), NZDS (ITU-T G.655)
Fibre Count	Single
Cladding diameter	125µm
Coating diameter	100 to 1000µm
Fibre cleaved length	8mm to 16mm using Sheath Clamp A, B or C/ 10mm using FH-60-250, FH-60-900
Actual 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 standards.
Splice time	Typical 11sec. with standard SM fibre.
Return loss	60dB or greater
Splicing modes	Total number available equals 100; for pre-set modes and user programmable modes
Splice loss estimate	Several types of core deformations as well as core axis offset are taken into account for accurate loss estimate.
Storage of splice result	The last 2000 results to be stored in the internal memory.
Fibre display	X/Y, or both X and Y simultaneously
Magnification	300x for single X or Y view, or 187x for X and Y view.
Viewing method	By two CMOS cameras for fibre viewing and 4.1inches TFT colour LCD monitor
Image change over	The fibre image is turned upside down automatically according to the monitor position.
Operating condition	0-3660m above sea level, 0-95% RH and -10 to 50°C respectively.
Mechanical proof test	2N (standard)
Tube heater	Built-in auto-start tube heater with 10 heating modes and up to 20 for reference
Tube heat time	Typical 30sec.with FP-03 protection sleeve.
Applicable protection sleeve length	60mm, 40mm and a series of micro sleeves.
No. of splice/heating with battery	160 cycles with BTR-08.
Power supply	Auto voltage selection from 100 to 240Va.c. or 10 to 15Vd.c. with ADC-13. 13.2Vd.c. with BTR-08
Terminals	USB1.1 (USB-Mini B) for data and video signal transfer to PC.
Wind protection	Max. wind velocity of 15m/s.
Dimensions	136(W) x 161(D) x 143(H) mm
Weight	2.1kg, with ADC-13 AC Adaptor, 2.5kg, with BTR-08 Battery

STANDARD PACKAGE			
Description	Model No.	Q'ty	Note
Arc Fusion Splicer	FSM-18S	1pc.	--
Sheath Clamp	CLAMP-S60A	1pc.	Installed
Electrodes	ELCT2-20A	1 pair	Installed
Wind Protector Mirror	WPM-08	2pc.	Installed, replaceable by user
AC Adaptor/Battery Charger	ADC-13	1pc.	--
AC Power Cord	ACC-xx	1pc.	ACC-16 UK Type
Spare Electrodes	ELCT2-20A	1 pair	--
USB Cable	USB-01	1pc.	--
Quick Reference Guide	M-60S/18S-E	1pc.	English
Video Instruction Manual	V-18S-E	1pc.	CD, English
Warning & Cautions	W-60-E	1pc.	English
Splicing Report	-	1pc.	English
J-Plate	JP-05	1pc.	--
Carrying Case	CC-24-18S	1pc.	--

OPTIONAL ITEMS		
Description	Model No.	Note
Fibre Holder	FH-60-250	For 250µm coating
	FH-60-900	For 900µm coating
Sheath Clamp	CLAMP-S60A	For coating diameter up to 250µm, 8mm to 16mm cleave
	CLAMP-S60B	For coating diameter of over 250µm, 16mm cleave
	CLAMP-S60C	For coating diameter up to 1000µm, 8mm to 16mm cleave
Battery Pack	BTR-08	--
Battery Charge Cord	DCC-14	Use for connecting BTR-08 and ADC-13
DC Power Cord	DCC-12	For ADC-13, cigarette lighter socket type
	DCC-13	For ADC-13, alligator clamp type
Magnifier	MGS-06	With bracket
Electrodes	ELCT2-20A	--
Wind Protector Mirror	WPM-08	--