ООО "Техэнком" Контрольно-измерительные приборы и оборудование www.tehencom.com

Just

Resistant

Single Fiber Arc Fusion Splicer FSNI-60S

Resistant

Features

- Core to core alignment by PAS (Profile Alignment System) technology.
- Environmental resistant features.
- World's most compact and lightest of its class.
- Arc calibration-free system.
- ■4.1" TFT color LCD monitor.
- Dual directional operation system.
- Long life battery.
- Fiber holder option.
- Software upgrade via Internet.
- Detachable work table (attached to carrying case).



SM

BE How to operate

PAUSE

R=0.5°

SM

Are Pusion Splice

ООО "Техэнком" Контрольно-измерительные приборы и оборудование

Single Fiber Arc Fusion Splicer **FSM-60S**



SPECIFICATIONS

Applicable type of fibers SM (ITU-T G.652), MM (ITU-T G.651), DS (ITU-T G.653), NZDS (ITU-T G.655) and other single mode fibers including ITU-T G.657 fibers. Fiber count Single Applicable fiber dimensions Cladding diameter : 100 to 1000µm. Coating diameter : 100 to 1000µm Fiber setting and cleaved length Sheathe clamp A (standard): For coating dia. up to 250µm (8 to 16nm cleave), coating dia. of over 250µm (16µm cleave) Sheathe clamp B (option) : For ooolym dia. loose tube fiber (8 to 16nm cleave) Sheathe clamp C (option) : For 900µm dia. loose tube fiber (8 to 16nm cleave) Fiber holder (option) : FH-80-250 and FH-80-900 (10nm cleave) Splicing modes Total 100 modes Typical splice loss 0.02dB with SM, 0.01dB with MM, 0.04dB with DS and 0.04dB with NZDS. (Measured by cut-back method relevant to ITU-T standard) Return loss >>600B Splicing time Typical splice loss of 0.1dB to 15dB (0.1dB step) can be made for an in-line fixed attenuator. Splice lose settinate Available Storage of splice result The least 2000 results to be stored in the internal memory. Tension test 1.96 to 2.28N Operating condition 0 to 5000m above sea level, 0 to 95%RH and -10 to 50 degC and up to 15m/s wind velocity, respectively. Object splice result The last 2000 results to be stored in the internal memory. Tension test 1.96 to 2		~ ~ ~	
Fiber count Single Applicable fiber dimensions Cladding diameter : 80 to 150 μm. Coating diameter : 100 to 1000 μm Fiber setting and cleaved length Sheathe clamp A (standard): For coating dia. up to 250 μm (8 to 16mm cleave), coating dia. of over 250 μm (16 μm cleave) Sheathe clamp B (option) : For 900 μm dia. loose tube fiber (8 to 16mm cleave) Sheathe clamp C (option) : For 900 μm dia. loose tube fiber (8 to 16mm cleave) Splicing modes Total 100 modes 0.02dB with SM, 0.01dB with MM, 0.04dB with DS and 0.04dB with NZDS. (Measured by cut-back method relevant to TIU-T standard) Return loss >>600B Splicing time Typical 9sec. with SM FAST, 10sec. with SM AUTO and 13sec with AUTO modes with standard SM (ITU-T G.652). Splice loss estimate Available Attenuation splice function Intentional high splice loss of 0.1dB to 15dB (0.1dB step) can be made for an in-line fixed attenuator. Tube heater / heating time Built-in tube heater with 30 heating modes. / Typical 30sec with Fujikura FP-03. Applicable protection sleeve 60mm, 40mm and Fujikura FPS01 series. Storage of splice result The last 2000 results to be stored in the internal memory. Tension test 1.96 to 2.25N Operating condition 0 to 500 mabove sea level, 0 to 95%RH and -10 to 50 degC and up to 15m/s wind velocity, respectively.	Applicable type of fibers		
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Viewing method and display Two CMOS cameras and 4.1" color LCD monitor. Fiber view and magnification X / Y (300X magnification), or both X and Y simultaneously (187X magnification) Power supply Applicable voltage from 100 to 240V AC or 10 to 15V DC with ADC-13. 13.2V DC with BTR-08. No.of splice cycles with battery Typical 160 cycles (splice / tube heat) with BTR-08. Electrode life 2500 arc-discharges. Terminals USB 1.1 (Mini-B type) connector for PC communication.	Dimensions	136W×161D×143H [mm] excluding rubber foot.	
Fiber view and magnification X / Y (300X magnification), or both X and Y simultaneously (187X magnification) Power supply Applicable voltage from 100 to 240V AC or 10 to 15V DC with ADC-13. 13.2V DC with BTR-08. No.of splice cycles with battery Typical 160 cycles (splice / tube heat) with BTR-08. Electrode life 2500 arc-discharges. Terminals USB 1.1 (Mini-B type) connector for PC communication.	Weight	2.3kg with AC adaptor ADC-13, 2.7kg with battery BTR-08.	
Power supply Applicable voltage from 100 to 240V AC or 10 to 15V DC with ADC-13. 13.2V DC with BTR-08. No.of splice cycles with battery Typical 160 cycles (splice / tube heat) with BTR-08. Electrode life 2500 arc-discharges. Terminals USB 1.1 (Mini-B type) connector for PC communication.	Viewing method and display	Two CMOS cameras and 4.1" color LCD monitor.	
No.of splice cycles with battery Typical 160 cycles (splice / tube heat) with BTR-08. Electrode life 2500 arc-discharges. Terminals USB 1.1 (Mini-B type) connector for PC communication.	Fiber view and magnification	X / Y (300X magnification), or both X and Y simultaneously (187X magnification)	
Electrode life 2500 arc-discharges. Terminals USB 1.1 (Mini-B type) connector for PC communication.	Power supply	Applicable voltage from 100 to 240V AC or 10 to 15V DC with ADC-13. 13.2V DC with BTR-08.	
Terminals USB 1.1 (Mini-B type) connector for PC communication.	No.of splice cycles with battery	Typical 160 cycles (splice / tube heat) with BTR-08.	
lerminals	Electrode life	2500 arc-discharges.	
6-pin Mini-DIN connector for HJS-02, HJS-03 or SH-8C power supply.	Terminals	USB 1.1 (Mini-B type) connector for PC communication.	
		6-pin Mini-DIN connector for HJS-02, HJS-03 or SH-8C power supply.	

STANDARD PACKAGE

Description	Model No.	Q'ty
Arc Fusion Splicer	FSM-60S	1pc.
	With CLAMP-S60A, ELC	T2-20A and WPM-08
AC adapter / battery charger	ADC-13	1pc.
AC power cord	ACC-XX	1pc.
Spare electrodes	ELCT2-20A	1pair
USB cable	USB-01	1pc.
Quick reference guide	M-60S/18S-E	1pc.
Video instruction manual	V-60S-E	1pc.
Warnings and Cautions	W-60-E	1pc.
J plate	JP-05	1pc.
Carrying case	CC-24-60S	1pc.

OPTIONAL ITEMS

Description	Model No.	
Fiber holder *1	FH-60-250 (coating dia. of $250 \mu m$)	
Fiber fibider "I	FH-60-900 (coating dia. of $900 \mu m$)	
	CLAMP-S60A (standard package)	
Sheath clamp *1	CLAMP-S60B	
	CLAMP-S60C	
Battery pack	BTR-08	
Battery charge cord	DCC-14	
DC power cord	DCC-12 (for cigar-socket)	
DC power cord	DCC-13 (with alligator clamp)	
Magnifier	MGS-06	
Electrodes	ELCT2-20A	
Wind protector mirror WPM-08		
*1:See "Fiber cleaved length" in SPECIFICATIONS for detail.		

ACCESSORIES

Description	Model No.
High precision fiber cleaver	CT-30 series
Primary coat stripper	PS-02
Nylon jacket stripper	JS-01
Hot jacket stripper	HJS-02, HJS-03
External tube heater	SH-8C (for FuseConnect [™] option)
Alcohol dispenser	HR-2
Protection sleeve	FP-03 / 03 (L=40) and FPS01series



Description	Detail
Shock resistance	76cm (30inch) bottom surface drop.*2
Dust resistance	Exposure to dust (0.1 to 500 μ m dia. Alumina Silicate).*2
Rain resistance	R=10mm/h for 10min.*2
2 Carried out in Fujikura labs in Japan. The shock resistance, dust resistance and rain resistance test do not	

guarantee that the product will not be damaged under these conditions."

STANDARD PACKAGE & OPTIOINAL ITEMS



MGS-06





FH-60-250 & FH-60-900



DETACHABLE WORK TABLE



Specifications and descriptions are subject to change without prior notice.

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TOP VIEW