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DATA SHEET

Optical Fiber Arc Fusion Splicer *FSM-45F*



The FSM-45F is designed for splicing of single optical fibers for factory use.

The FSM-45F has PAS (Profile Alignment System) technology for core-to-core fiber alignment. Some unique functions are available, which enable splicing of various fibers such as dissimilar fiber, large diameter fiber, attenuation splicing and short cleaved length splicing.

The fiber holder system, which is exclusively designed for FSM-45F, provides easy handling of fiber during a series of splicing processes.

Features:

1. Core-to-core fiber alignment system with PAS technology.
2. Universal Fiber Clamp for the fiber with the diameter of 80 μ m to 400 μ m
3. V- groove Driving System for various kinds of splicing work.
4. Short cleaved length splicing capability.
5. Splice loss estimation function.
6. Sweep arc function for various kinds of dissimilar fiber splicing.
7. Power monitor feedback alignment capability with GP-IB interface.
8. USB terminal and serial port for PC communication.

Änderungen der technischen Daten und des Lieferumfangs sind jederzeit möglich. Keine Haftung für Druckfehler und Irrtümer.

SPECIFICATIONS	
Applicable fibers	SM, MM, NZDS, DS, Large diameter fiber, Reduced cladding fiber
Fiber count	Single
Cladding diameter	80µm to 400µm
Coating diameter	100µm to 1,000µm
Fiber cleaved length	8mm to 10mm (standard) 3mm to 5mm (short cleaved length)
Actual average splice loss	0.02dB with SM, 0.01dB with MM, 0.04dB with DS
Splice time	20sec with SM
Return loss	>>60dB
Splicing modes	40 user programmeble modes and 120 database area (factory predetermined setting)
Splice loss estimate	Available
Attenuation splice function	0.1dB to 25dB
Storage of splice result	The last 1,200 splices to be stored in the internal memory
Fiber display	X/Y, or X and Y simultaneously
Magnification	270x for single X or Y view, or 135x for X and Y view
Viewing method	Two CCD cameras and 5 inch TFT color LCD monitor
Operating condition	0 to 3,500m above sea level 0 to 95%RH and 0 to 40 degree C respectively
Mechanical proof test	2.45N
Tube heater	Built-in tube heater with 10 heating modes and 20 database area
Tube heat time	Typical 100sec with FP-03 protection sleeve Typical 70sec with series of micro sleeves
Applicable protection sleeve length	60mm, 40mm, and a series of micro sleeves
Power supply	Auto voltage selection from 100 to 240Va.c. with ADC-10
	USB 1.1 (type B) and RS232C for PC communication GP-IB port for power monitor feedback alignment Video terminal RCA video jack / NTSC
Wind protection	Max. wind velocity of 5m/s.
Dimensions	311W x 218D x 234H (mm) in operation
Weight	5.5kg without AC adapter

STANDARD PACKAGE		OPTIONAL ITEMS		
Arc fusion splicer	FSM-45F	Fiber holder	FH-40-150	
Fiber holder	FH-40-250		FH-40-400	
Fiber clamp	CLAMP 45-80/400		FH-40-600	
AC adapter	ADC-10		FH-40-900	
AC power cord	ACC-08~12	Fiber clamp	CLAMP-45-600	
Carrying case with Z unit fixture	CC-05-45F ZFIX-01		CLAMP-45-900	
Spare electrode	ELCT1-25	Fiber cleaver	CT-32	
Hexagonal wrench	HEX-01		CT-38	for 80mm fiber
Top plate rubber cap	CAP-01	Cleaver spacer	SPA-40-CT-040	for 9mm cleave length
Transfer holder	-		SPA-40-CT-050	for 10mm cleave length
DC inlet cover	-	Thermal jacket stripper	HJS-02	
Instruction manual	-		HJS-02-80	for 80mm fiber
		Jacket stripper	JS-02-900	for 900mm jacketing
		Stripper spacer	SPA-40-HJS030	for short cleave length
		External controller	CO-01	

Specifications and descriptions are subject to change without prior notice.

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