FSM-45F

FSM-45PM

FSM-45F & 45PM Fusion Splicers

Today's research and factory splicing applications require a tremendous amount of flexibility. Fujikura's FSM-45F and FSM-45PM splicers are designed with both of these applications in mind.

The FSM-45F splicer is designed to handle dissimilar fiber combinations with ease and splices various types of fibers. The FSM-45F splicer features Fujikura's patented Sweep™ arc technology to minimize splice loss between different combinations of fibers.

The FSM-45PM splicer easily splices all of the combinations that the FSM-45F splices and also features an "automatic" splice mode that can align almost any type of PM fiber.

Since the transition from research to production is so critical, both of these splicers have been designed to be compatible with AFL Telecommunications' SpliceMaster and SpliceLab software packages, enabling a wide variety of additional functions, including splicing based upon power meter feedback (attenuation, polarization, etc.). Communication is through a USB interface.

Features

- Capable of splicing a variety of standard and specialty fibers for use in photonic applications
- Short cleave length capability
- Ultra high strength splicing capability
- Consistent splicing results with a wide variety of fiber types
- Compatibility with SpliceLab™ splicing management software provides great flexibility to control splicing parameters for laboratory-type splicing
- Compability with SpliceMaster® splicing management software enables smooth transition from development to production
- USB PC interface

Specifications

PARAMETER	VALUE
Applicable Fiber Types	Standard Telecommunications fibers including SM,MM,DS, NZ-DSF, more than 50 Types of PM Fibers, Rare earth doped fibers including Er, Yb, etc.
Cleave Length	8-10mm with bare fiber clamping; 3-5mm with coating clamping
Applicable coating types	Standard fiber holders compatible with 165μm, 250μm, 400μm, 600μm, 900μm, 900μm Loose buffer tube. Other holders available for alternative fiber diameters.
High Tensile Strength Splicing Performance	Typical 2.5 Gpa (30N) with coating clamping
Viewing Method	5" TFT color LCD monitor with 350X, 270X, 175X, or 135X magnification, external RCA jack for NTSC video signal
Power Supply	AC100-240V (50/60Hz) with ADC-10 adapter
Dimensions (FSM-45F and FSM-45PM)	311mm (W) x 218mm (D) x 133mm (H)
Weight	5.7kg (FSM-45F), 6.3kg (FSM-45PM)

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www.AFLtele.com or 1.800.235.3423

FSM-45F & 45PM Fusion Splicer

Ordering Information

DESCRIPTION	PART NUMBER
FSM-45F Factory Fusion Splicer (machine only) The FSM-45F fusion splicer comes with FH-40/45-250 fiber holders (pair), FH-40/45-400 fiber holders (pair), FH-40/45-900 fiber holders (pair), Clamp-45-125 (pair), Clamp-45-250 (pair), Clamp-45-400 (pair), Clamp-45-900 (pair), Clamp-45-80/400 (pair), spare electrodes (pair), ADC-10 AC adapter/battery charger, AC cord, operation manual, and transit case.	S014336
FSM-45PM Factory Fusion Splicer (machine only) The FSM-45PM fusion splicer comes with FH-40/45-250 fiber holders (pair), FH-40/45-400 fiber holders (pair), FH-40/45-900 fiber holders (pair), Clamp-45-125 (pair), Clamp-45-250 (pair), Clamp-45-400 (pair), Clamp-45-900 (pair), Clamp-45-80/400 (pair), spare electrodes (pair), ADC-10 AC adapter/battery charger, AC cord, operation manual, and transit case.	S014338
FMS-45F Factory Fusion Splice Kit	S014337
FMS-45PM Factory Fusion Splice Kit	S014339

* Each kit includes a HJS-02 Hot Jacket Stripper, CT-32 Cleaver, SPA-HJS-030 Spacer for HJS-02, and an AC adapter for HJS-02 in addition to all the items listed above.

Accessories Recommended for the FSM-45F & FSM-45PM

DESCRIPTION	PART #
High Strength Accessories	
Ultrasonic Cleaner (USC-01A)	S012732
HTS-12 High Tensile Stripper (40F/PM) includes 250µm blades (400µm available)	S012094
AFL PowerStrip High Tensile Stripper	S012808
HTC-20 High Strength Cleaver	S013288
AFL PowerCleave High Strength Cleaver	S009972
Strippers	
HJS-02 Hot Jacket Stripper	S010340
HJS-02-80 Hot Jacket Stripper (80µm cladding)	S013264
JS-02-900 (900µm)	S010908
Cleaver	
CT-32 Cleaver	S014348
Fiber Clamps (Pairs)	
Clamp-45-80/400 (universal, 80-400µm coating or cladding)	S014341
Clamp-45-80 (80-93µm coating)	S012050
Clamp-45-125 (118-139µm coating)	S012054
Clamp-45-250 (240-289µm coating)	S012058
Clamp-45-400 (390-489µm coating)	S012062
Clamp-45-600 (590-689µm coating)	S013300
Clamp-45-900 (890-1000µm coating)	S012066

DESCRIPTION	PART #
Fiber Holders (Pairs)	
FH-40/45-100 Fiber Holders (45F & 45PM) (94-117µm coating)	S012568
FH-40/45-150 Fiber Holders (45F & 45PM) (140-169µm coating)	S012572
FH-40/45-250 Fiber Holders (45F & 45PM) (240-289µm coating)	S012018
FH-40/45-400 Fiber Holders (45F & 45PM) (390-489µm coating)	S012022
FH-40/45-600 Fiber Holders (45F & 45PM) (590-689µm coating)	S012816
FH-40/45-900 Fiber Holders (45F & 45PM) (890-1000µm coating)	S012026
FH-40/45-900LT Fiber Holders (45F & 45PM) (loose jacketing 900µm)	S013584
Spacers	
SPA-40-CT-040 Spacer	S014350
SPA-40-CT-050 Spacer	S014351
SPA-HJS-030 Spacer for HJS-02 (allows 3, 4, or 5mm cleaving on 250 and 400µm fiber)	S012086
SPA-40-JS030 spacer for JS-02-900 (allows 3, 4, or 5mm cleaving on 900µm fiber)	S012090
Power and Cords	
ADC-10 AC Adapter (45F and 45PM)	S012548
ADC-09 AC Adapter for HJS-02	S014389
ACC-09 Power Cord for use with ADC-09 and ADC-10	S014390
Miscellaneous	
Electrodes: (FSM-20, 30, 40, 45, all core alignment units)	S000041
45F and 45PM Allen Wrench (for fiber clamps) 1.3mm	S010512
45F and 45PM C0-01 External Controller Box	S012070
45F and 45PM Heater Transfer Base Assembly	S012544
45F and 45PM HP Coupling Adapter	S012180
45F and 45PM ILX Coupling Adapter	S012184
45F and 45PM Fiber Holder Adapter	S012188
One year extended warranty (splicers) for FSM-45F	S012996
Two year extended warranty (splicers) for FSM-45F	S013000