

**Aumictech**

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Data Sheet

August 13, 2026

FUJIKURA

Fujikura FSM-40F SM MM High Strength Fiber Splicer

The Fujikura FSM-40F is a high-strength fiber splicer designed for both single-mode (SM) and multimode (MM) fibers. It provides precise alignment and splicing, ensuring low-loss connections. Ideal for field and laboratory use, it offers reliable performance and durable construction.



MODEL

Fujikura FSM-40F

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

FSM-40F

LISTING

<https://aumictechlabs.com/products/fsm-40f-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fujikura FSM-40F is a fusion splicer engineered for single-mode and multimode optical fibers, delivering low-loss connections across diverse fiber types including dispersion-shifted, non-zero dispersion-shifted, cut-off shifted, and erbium-doped variants. The instrument combines precision fiber alignment with rapid splicing cycles and exceptional tensile strength, making it suitable for factory and field deployment in demanding network environments. Technical Specifications Applicable Fibers Single-mode (SM) Multimode (MM) Dispersion-shifted (DS) Non-zero dispersion-shifted (NZ-DSF) Cut-off shifted (CS) Erbium-doped (ED) Splice Loss (Typical) SM fibers (ITU-T G.652): 0.02 dB bare fiber clamping / 0.03 dB coating clamping DS fibers (ITU-T G.653): 0.04 dB bare fiber clamping / 0.05 dB coating clamping MM fibers (ITU-T G.651): 0.01 dB

bare fiber clamping / 0.01 dB coating clamping Splicing Performance Splicing time: 25 seconds typical (SM/MM); approximately 50 seconds with PANDA fiber Tensile strength: 2.5 GPa (30 N) with coating clamping Cleaved length: 8–10 mm bare fiber clamping; 3–5 mm coating clamping Operational Capacity Heater modes: 10 programmable modes with reference data; 10 programmable tube heating modes plus up to 20 pre-programmed modes for protection sleeves Splice result storage: 1,200 results in internal memory Display: CCD camera with 5" TFT color LCD monitor Key Features Fiber holder system minimizes operator skill dependency while maintaining stable splicing performance. Protection sleeve options include 60 mm, 40 mm, and various micro sleeves. Fiber clamp types accommodate 125/250/400 μm and 125/250 μm diameters. RS-232C interface enables splice result downloads and parameter modification via PC connection. Typical Applications Factory splicing of dissimilar fiber types; specialized fiber optic networks requiring high-strength, low-loss terminations; erbium-doped fiber applications. Compatibility & Integration Power supply: 100–240 VAC, 50–60 Hz via ADC-10 AC adapter (DC 10–12 V alternative). Operating environment: 0–40 °C, 0–95% RH non-condensing. Storage: -40–80 °C non-condensing. Dimensions: 311 mm W $\times$ 218 mm D $\times$ 133 mm H. Weight: 6.1 kg. Desktop working stage height: 88 mm from bottom.

Features & description

From manufacturer datasheet

Features

• Sweep arc for dissimilar fiber combinations • Typical SM splice loss 0.02 dB; MM 0.01 dB • High tensile strength ~2.5 GPa (30 N) coating clamp • In-line proof tester ~2 N • 5" TFT color LCD; last 1200 splice results • AC 100–240 V via ADC-10

Applications

• Factory device manufacturing splice • High-tensile-strength fiber splicing with coating clamp • Dissimilar fiber / EDFA pigtail splicing • Specialty fiber production QA

FSM40F Characteristics / Specifications

PARAMETER	VALUE
Model	FSM-40F
Manufacturer	Fujikura
Instrument Type	Optical Fiber Fusion Splicer (Factory / High Strength)
Applicable Fibers	SM G.652; MM G.651; DS G.653; NZ-DS; CS; ED
Fiber Diameter	80–250 μm (standard 125 μm)
Coating Diameter	100–1000 μm (standard 250/400 μm)
Fiber Cleaved Length Standard	8–10 mm
Fiber Cleaved Length High Tensile	3–5 mm
Typical Splice Loss SM	0.02 dB
Typical Splice Loss MM	0.01 dB
Typical Splice Loss DS	0.04 dB
Splicing Time SM/MM Typical	25 seconds
Return Loss	>60 dB
High Tensile Strength Typical	2.5 GPa (30 N) coating clamping
Splice Programs	40 modes plus reference data
Heater Programs	10 modes plus reference
Protection Sleeve Lengths	60 mm; 40 mm; micro sleeves
Splice Result Storage	last 1,200 results
Viewing	CCD camera; 5" TFT color LCD
Power Supply	100–240 Vac auto with ADC-10
Dimensions	311 × 218 × 127 mm
Weight	5.5 kg
Operating Environment	0–40 °C; 0–95% RH non-dew
Storage	–40–80 °C non-dew

PARAMETER	VALUE
Altitude	0-3500 m Notes Specs from Fujikura FSM-40F / 40PM product specifications. Confirm fiber holders/clamps included with this unit.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Specifications	
PARAMETER	VALUE
Model	FSM-40F
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Instrument Type	Optical Fiber Fusion Splicer (Factory / High Strength)
Applicable Fibers	SM G.652; MM G.651; DS G.653; NZ-DS; CS; ED
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Coating Diameter	100-1000 μm (standard 250/400 μm)
Fiber Cleaved Length Standard	8-10 mm
Fiber Cleaved Length High Tensile	3-5 mm
Typical Splice Loss SM	0.02 dB
Typical Splice Loss MM	0.01 dB
Typical Splice Loss DS	0.04 dB
Splicing Time SM/MM Typical	25 seconds
Splicing Time DS/NZ-DS Typical: 40 seconds	
Return Loss: >60 dB	
High Tensile Strength Typical: 2.5 GPa (30 N) coating clamping	
In-line Proof Tester: approximately 2 N	
Specifications	
PARAMETER	VALUE
Splice Programs	40 modes plus reference data
Heater Programs	10 modes plus reference
Protection Sleeve Lengths	60 mm; 40 mm; micro sleeves
Splice Result Storage	last 1,200 results
Viewing	CCD camera; 5" TFT color LCD
Power Supply	100-240 Vac auto with ADC-10
Dimensions	311 × 218 × 127 mm
Weight	5.5 kg
Operating Environment	0-40 °C; 0-95% RH non-dew

PARAMETER	VALUE
Storage	-40-80 °C non-dew
Altitude	0-3500 m

Notes
Specs from Fujikura FSM-40F / 40PM product specifications. Confirm fiber holders/clamps included with this unit.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.