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Data Sheet

August 13, 2026

FUJIKURA

Fujikura FSM-60R Ribbon Fiber Arc Fusion Splicer

The Fujikura FSM-60R is a ribbon fiber arc fusion splicer designed for splicing ribbon fiber cables. It provides precise fiber alignment and automated splicing, resulting in low-loss splices. It is suitable for various applications, including telecommunications and data centers.



MODEL

Fujikura FSM-60R

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

FSM-60R

LISTING

<https://aumictechlabs.com/products/fsm-60r-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fujikura FSM-60R is an arc fusion splicer engineered for high-precision splicing of ribbon fiber optic cables with up to 12 fibers per ribbon. The system delivers exceptional performance across single-mode, multimode, and specialty fiber types through automated cladding alignment, real-time arc calibration, and dual-camera monitoring. Typical splice losses measure 0.05 dB for single-mode, 0.02 dB for multimode, and 0.08 dB for dispersion-shifted and non-zero dispersion-shifted fibers, with completion times as fast as 9 seconds. Return loss exceeds 60 dB across all configurations. Technical Specifications Fiber Compatibility Single-mode (ITU-T G.652), multimode (ITU-T G.651), dispersion-shifted (ITU-T G.653), non-zero dispersion-shifted (ITU-T G.655) Ribbon fiber counts: 1, 2, 4, 5, 6, 8, 10, 12 Cladding diameter: 125 μ m (ribbon and single fiber) Ribbon thickness: 0.25 to 0.4 mm Single-fiber coating diameter: 250 μ m and 900 μ m Splicing Performance Fiber cleaved length: 10 mm Typical splice loss: 0.05 dB (SM), 0.02 dB (MM), 0.08 dB (DS/NZDS) Return loss: Greater than 60 dB Splicing time: 9 seconds typical; 20

seconds with standard single-mode fiber Arc discharge capacity: 1000 discharges Splice loss estimate: Displayed per core using dual-camera cladding alignment data Operating modes: 100 preset plus user-programmable Heating & Protection Tube heater: 30 modes, 40 seconds (Fujikura FP-04T), 50 seconds (Fujikura FP-05) Applicable sleeves: 60 mm, 40 mm, Fujikura FPS01 series Key Features Calibration-free operation with automatic, real-time arc calibration Automatic ribbon fiber identification Fixed V-groove cladding alignment 4.1" or 5.6" TFT color LCD with anti-reflective coating Magnification: 35X standard, adjustable to 90X; simultaneous X and Y viewing Dual directional operation; user-selectable monitor position (front or top) with automatic image orientation Auto-start splicing, heater, and arc calibration functions Last 2000 splice results stored internally USB 1.1 (Mini-B) data download to PC Typical Applications Telecommunications networks, data center infrastructure, and high-density fiber deployments requiring sub-0.1 dB insertion loss and rapid field splicing.

Features & description

From manufacturer datasheet

Features

• Fiber count single and 2–12 ribbon • Typical SM ribbon splice loss 0.05 dB • Typical splice time 20 s; heat ~40–50 s • 100 modes; 2000 result storage • 4.1" anti-reflective TFT; wind to 15 m/s • USB PC communication

Applications

• Ribbon fiber mass fusion splicing (2–12 fibers) • Single-fiber cladding-alignment splicing • Outside-plant ribbon cable restoration • Battery-powered ribbon splice/heat cycles

FSM60R Characteristics / Specifications

PARAMETER	VALUE
Model	FSM-60R
Manufacturer	Fujikura
Also Known As	FSM-60R12
Instrument Type	Ribbon / Mass Fusion Splicer
Applicable Fibers	SM G.652/G.657; MM G.651; DS G.653; NZDS G.655
Fiber Count	Single; 2; 4; 5; 6; 8; 10; 12
Cladding Diameter	125 µm
Coating Diameter Ribbon	0.25–0.4 mm
Coating Diameter Single	250 µm and 900 µm
Fiber Cleave Length	10 mm
Typical Splice Loss SM	0.05 dB
Typical Splice Loss MM	0.02 dB
Typical Splice Loss DS/NZDS	0.08 dB
Splicing Time Typical	20 seconds SM
Splicing Modes	100 preset and user programmable
Splice Result Storage	last 2000 results
Magnification	35X to 90X
Display	Dual cameras; 4.1-inch TFT color LCD anti-reflective
Tube Heating Time FP3(40) Typical	40 seconds
Protection Sleeve Lengths	60 mm; 40 mm; micro
Mechanical Proof Test	1.96–2.25 N
Operating Altitude	0–3660 m
Operating Temperature	–10 to 50 °C
Wind Protection	max 15 m/s
Power	100–240 Vac or 10–15 Vdc ADC-13; 13.2 Vdc BTR-08

PARAMETER	VALUE
Battery Cycles Typical	90 splice/heat with power save
Dimensions	136 × 161 × 143 mm
Weight with AC adapter	2.1 kg
Terminals	USB 1.1; Mini-DIN for heaters Notes Specs from Fujikura FSM-60R12 specification sheet. Confirm exact 8- vs 12-fiber capability and accessories on the unit.

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	−10 to 50 °C
Operating Temperature	−10 to 50 °C
Wind Protection	max 15 m/s
Power	100–240 Vac or 10–15 Vdc ADC-13; 13.2 Vdc BTR-08
Battery Cycles Typical	90 splice/heat with power save
Dimensions	136 × 161 × 143 mm
Weight with AC adapter	2.1 kg
Terminals	USB 1.1; Mini-DIN for heaters Notes Specs from Fujikura FSM-60R12 specification sheet. Confirm exact 8- vs 12-fiber capability and accessories on the 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-60R
Manufacturer	Fujikura
Also Known As	FSM-60R12
Instrument Type	Ribbon / Mass Fusion Splicer
Applicable Fibers	SM G.652/G.657; MM G.651; DS G.653; NZDS G.655
Fiber Count	Single; 2; 4; 5; 6; 8; 10; 12
Cladding Diameter	125 μm
Coating Diameter Ribbon	0.25–0.4 mm
Coating Diameter Single	250 μm and 900 μm
Fiber Cleave Length	10 mm
Typical Splice Loss SM	0.05 dB
Typical Splice Loss MM	0.02 dB
Typical Splice Loss DS/NZDS	0.08 dB
Splicing Time Typical	20 seconds SM
Splicing Modes	100 preset and user programmable
Splice Result Storage	last 2000 results
Magnification	35X to 90X
Display	Dual cameras; 4.1-inch TFT color LCD anti-reflective
Tube Heating Time FP-5 Typical: 50 seconds	
Specifications	
PARAMETER	VALUE
Tube Heating Time FP3(40) Typical	40 seconds
Protection Sleeve Lengths	60 mm; 40 mm; micro
Mechanical Proof Test	1.96–2.25 N
Operating Altitude	0–3660 m

PARAMETER	VALUE
Operating Temperature	-10 to 50 °C
Wind Protection	max 15 m/s
Power	100-240 Vac or 10-15 Vdc ADC-13; 13.2 Vdc BTR-08
Battery Cycles Typical	90 splice/heat with power save
Dimensions	136 × 161 × 143 mm
Weight with AC adapter	2.1 kg
Terminals	USB 1.1; Mini-DIN for heaters

Notes

Specs from Fujikura FSM-60R12 specification sheet. Confirm exact 8- vs 12-fiber capability and accessories on the 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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<https://aumictechlabs.com>

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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.