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Data Sheet

August 8, 2026

FUJIKURA

Fujikura FSM-70S SM MM Core Alignment Fiber Fusion Splicer

The Fujikura FSM-70S is a core alignment fusion splicer renowned for its precision and reliability in splicing single-mode and multimode optical fibers. It features automated splicing and heating, reducing operational time and enhancing productivity. Ideal for field or lab use, it ensures low-loss splices with its advanced image processing technology.



MODEL

Fujikura FSM-70S

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

FSM-70S

LISTING

<https://aumictechlabs.com/products/fsm-70s-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fujikura FSM-70S is a core alignment fusion splicer for single-mode and multimode optical fibers across field and laboratory environments. It delivers exceptional splice loss performance - 0.02 dB for SM fiber and 0.01 dB for MM fiber - with splicing times as fast as 6 seconds in ULTRA FAST mode. The clamshell tube heater automates the protection sleeve process in 9-14 seconds depending on configuration. Rugged construction withstands shock, dust, and moisture in harsh conditions.

Technical Specifications

Applicable Fibers

Single-mode: ITU-T G.652, G.657

Multimode: ITU-T G.651 Dispersion Shifted: ITU-T G.653 Non-Zero Dispersion Shifted: ITU-T G.655, G.656 Erbium-doped fiber

Fiber Geometry

Cladding diameter: 80 μ m to 150 μ m

Coating diameter: 100 μ m to 1,000 μ m or 100 μ m to 3,000 μ m

Sheath diameter: 100 μ m to 3,000 μ m

Cleave

length: 5 mm to 16 mm Splice Performance (ITU-T/IEC cut-back method) Single-mode: 0.02 dB average loss Multimode: 0.01 dB average loss Dispersion Shifted: 0.04 dB average loss Non-Zero Dispersion Shifted: 0.04 dB average loss Splicing Modes & Duration ULTRA FAST: 6 seconds SM FAST: 7 seconds SM AUTO: 10 seconds AUTO (SM fiber): 15 seconds Total process time: ~21 seconds Tube Heating Standard automated heater: 14 seconds Slim 60 mm (250 μ m coating): 9 seconds FP-03 (250 μ m coating): 14 seconds FP-03 (900 μ m coating): 14 seconds Electrical Battery: Li-Ion BTR-09, 200 splices/shrinks per charge AC adapter: ADC-18 (100–240 VAC, 50–60 Hz) 6-pin Mini-DIN connector for HJS-02/HJS-03 power supplyKey Features Data logging: Last 20,000 splice records stored Attenuation splice function: 0.1 dB to 15 dB (0.1 dB steps) for in-line fixed attenuators Tension test capability: 1.96 N to 2.25 N 4.73" color LCD display USB 2.0 (Mini-B) PC communication Programmable wind protectorCompatibility & Integration Protection sleeves: 60 mm, 40 mm, Fujikura micro sleeves USB and DC power options via DCC-18, DCC-12, DCC-13 Regional AC cords: ACC-14 (JP/US), ACC-15 (EU), ACC-16 (UK), ACC-17 (AU)

Features & description

From manufacturer datasheet

Features

- Applicable fibers: SM (G.652/G.657), MM (G.651.1), DS (G.653), CS (G.654), NZDS (G.655/G.656), EDF
- Cladding 80–150 μm ; coating 100–1000 μm ; cleave 5–16 mm
- Typical splice loss: 0.02 dB SM; 0.01 dB MM; 0.04 dB DS/NZDS
- Splice time: 7 s SM FAST; 10 s SM AUTO; 15 s AUTO
- Return loss: ≥ 60 dB; 100 splice modes; last 2000 results stored
- Tube heater: ~ 14 s with FP-03; 30 heating modes; 60/40 mm and micro sleeves
- Display: dual CMOS cameras; ~ 4.7 " TFT color LCD
- Battery: ~ 200 splice+heat cycles; electrode life 3000 arcs
- Operating: -10 to 50 $^{\circ}\text{C}$; 0–5000 m; 0–95% RH; wind to 15 m/s
- Power: 100–240 VAC or 10–15 VDC (ADC-18); 14.8 V (BTR-09)
- Tension test: 1.96–2.25 N; USB for PC communication

FSM70S Characteristics / Specifications

PARAMETER	VALUE
Model	FSM-70S
Manufacturer	Fujikura / AFL
Instrument Type	Core Alignment Fusion Splicer
Family	Fujikura FSM-70S
Alias	FSM-70S; Fujikura 70S Optical / Mechanical Core alignment; 7 s / 14 s class; SM/MM/DS/NZDS Operational Notes Prefer Fujikura/AFL FSM-70S datasheet. Distinct from FSM-70S+ (ultra-fast 6 s / longer electrode life). Confirm cleaver and holders with unit.
Applicable fibers	SM (G.652/G.657), MM (G.651.1), DS (G.653), CS (G.654), NZDS (G.655/G.656), EDF
Typical splice loss	0.02 dB SM; 0.01 dB MM; 0.04 dB DS/NZDS
Splice time	7 s SM FAST; 10 s SM AUTO; 15 s AUTO
Return loss	≥60 dB; 100 splice modes; last 2000 results stored
Tube heater	~14 s with FP-03; 30 heating modes; 60/40 mm and micro sleeves
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Operating	-10 to 50 °C; 0–5000 m; 0–95% RH; wind to 15 m/s
Power	100–240 VAC or 10–15 VDC (ADC-18); 14.8 V (BTR-09)
Tension test	1.96–2.25 N; USB for PC communication

FSM70S Specifications

PARAMETER	VALUE
Key Features	- Applicable fibers: SM (G.652/G.657), MM (G.651.1), DS (G.653), CS (G.654), NZDS (G.655/G.656), EDF
Technical Specifications	Model: FSM-70S
Optical / Mechanical	Core alignment; 7 s / 14 s class; SM/MM/DS/NZDS

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-70S
Manufacturer	Fujikura / AFL
Instrument Type	Core Alignment Fusion Splicer
Family	Fujikura FSM-70S
Alias	FSM-70S; Fujikura 70S

Optical / Mechanical

Core alignment; 7 s / 14 s class; SM/MM/DS/NZDS

Operational Notes

Prefer Fujikura/AFL FSM-70S datasheet. Distinct from FSM-70S+ (ultra-fast 6 s / longer electrode life). Confirm cleaver and holders with 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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<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.