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Data Sheet
August 2, 2026

FUJIKURA

Fujikura FSM-18S Fusion Splicer

The Fujikura FSM-18S is a compact and user-friendly fusion splicer designed for single fiber splicing. It features a fast splicing time, automatic arc calibration, and a ruggedized design for field use. Ideal for premise/enterprise, FTTx, and data center applications.

MODEL **Fujikura FSM18S**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **FSM18S**	LISTING **https://aumictechlabs.com/products/fsm18s-2/**

NIST-traceable cal · SAM registered · 30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Fujikura FSM-18S is a reliable and efficient core alignment fusion splicer designed for splicing single fibers. Its compact size and lightweight design make it highly portable and suitable for various field applications. The FSM-18S features a fast splicing time and automatic arc calibration, ensuring consistent and high-quality splices. The splicer is equipped with a user-friendly interface and a large LCD screen for easy operation and monitoring. Its ruggedized construction ensures durability and reliability in harsh environments. The FSM-18S is an excellent choice for premise/enterprise, FTTx, and data center applications.

Features & description

From manufacturer datasheet

Features

• Fixed V-groove cladding alignment • Applicable fibers: SM (G.652), MM (G.651), DS (G.653), NZDS (G.655) • Typical splice loss 0.05 dB SM / 0.02 dB MM / 0.08 dB DS/NZDS • Typical splice time 11 s (SM) • 4.1-inch TFT color LCD; dual CMOS cameras • Dual-directional operation; detachable work table on case • Built-in tube heater with 30 modes; typical 30 s FP-03 • About 150 splice/heat cycles with BTR-08 • Shock/dust/rain resistance class features • USB 1.1 Mini-B for PC communication

FSM18S Characteristics / Specifications

PARAMETER	VALUE
Model	FSM-18S
Manufacturer	Fujikura / AFL
Instrument Type	Single-fiber cladding-alignment fusion splicer
Fiber Count	Single
Cladding Diameter	125 um
Coating Diameter	250 to 1000 um
Cleave Length	sheath clamp A – up to 250 um coating 8-16 mm (over 250 um: 16 mm); holders FH-60-250/900 at 10 mm cleave
Splicing Modes	total 100 modes
Typical Average Splice Loss	0.05 dB SM; 0.02 dB MM; 0.08 dB DS; 0.08 dB NZDS (cut-back, ITU-T)
Return Loss	greater than 60 dB
Splicing Time	typically 11 s with standard SM (G.652)
Tube Heater	built-in 30 modes; typically 30 s with FP-03
Protection Sleeves	60 mm, 40 mm, Fujikura FPS01 series
Splice Result Storage	last 2000 results
Tension Test	1.96 to 2.25 N
Operating	0-3660 m; 0-95% RH; -10 to 50 C; wind to 15 m/s
Dimensions	136 × 161 × 143 mm (excluding rubber foot)
Weight	2.1 kg with ADC-13; 2.5 kg with BTR-08
Magnification	300X singleXor Y; 187X simultaneousXandYElectrode Life: about 2000 arc discharges
Power	100-240 VAC or 10-15 V DC with ADC-13; 13.2 V DC with BTR-08 Standard Operating Conditions Clean V-grooves. Select correct sheath clamp or fiber holders for coating diameter. Observe wind cover and electrode intervals. Operational Notes
Applicable fibers	SM (G.652), MM (G.651), DS (G.653), NZDS (G.655)

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Model	FSM-18S
Manufacturer	Fujikura / AFL
Instrument Type	Single-fiber cladding-alignment fusion splicer
Fiber Count	Single
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Return Loss	greater than 60 dB
Splicing Time	typically 11 s with standard SM (G.652)
Tube Heater	built-in 30 modes; typically 30 s with FP-03
Protection Sleeves	60 mm, 40 mm, Fujikura FPS01 series
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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.

environmental resistance (shock, dust, rain class tests). Typical splice time is about 11 seconds for standard SM fiber. Optional FH-60-250 / FH-60-900 fiber holders or sheath clamps CLAMP-S60A/B/C support different coating diameters.

Applications
Field and premise single-fiber splicing of SM/MM/DS/NZDS; FTTH and access construction; portable cladding-alignment splicing where core alignment is not required.

Key Features
- Fixed V-groove cladding alignment
- Applicable fibers: SM (G.652), MM (G.651), DS (G.653), NZDS (G.655)
- Typical splice loss 0.05 dB SM / 0.02 dB MM / 0.08 dB DS/NZDS
- Typical splice time 11 s (SM)
- 4.1-inch TFT color LCD; dual CMOS cameras
- Dual-directional operation; detachable work table on case
- Built-in tube heater with 30 modes; typical 30 s FP-03
- About 150 splice/heat cycles with BTR-08
- Shock/dust/rain resistance class features
- USB 1.1 Mini-B for PC communication

Technical Specifications

Technical Specifications

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Splicing Modes	total 100 modes
Typical Average Splice Loss	0.05 dB SM; 0.02 dB MM; 0.08 dB DS; 0.08 dB NZDS (cut-back, ITU-T)
Return Loss	greater than 60 dB
Splicing Time	typically 11 s with standard SM (G.652)
Tube Heater	built-in 30 modes; typically 30 s with FP-03
Protection Sleeves	60 mm, 40 mm, Fujikura FPS01 series
Splice Result Storage	last 2000 results
Tension Test	1.96 to 2.25 N
Operating	0-3660 m; 0-95% RH; -10 to 50 C; wind to 15 m/s

PARAMETER	VALUE
Dimensions	136 x 161 x 143 mm (excluding rubber foot)
Weight	2.1 kg with ADC-13; 2.5 kg with BTR-08
Magnification	300X single X or Y; 187X simultaneous X and Y
Electrode Life	about 2000 arc discharges
Power	100-240 VAC or 10-15 V DC with ADC-13; 13.2 V DC with BTR-08

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Standard Operating Conditions
Clean V-grooves. Select correct sheath clamp or fiber holders for coating diameter. Observe wind cover and electrode intervals.

Operational Notes

Same OEM identity applies to catalog titles "Fujikura FSM-18S Fusion Splicer" and "Fujikura FSM-18S SM MM Fiber Fusion Splicer." Confirm kit contents (cleaver, holders, battery) separately.

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

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