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Data Sheet
August 1, 2026

FUJIKURA

Fujikura FSM-16S SM MM Fiber Fusion Splicer

The Fujikura FSM-16S is a compact and reliable fusion splicer designed for both single-mode and multimode optical fibers. It features automatic fiber alignment, fast splicing times, and a durable construction suitable for field use. Ideal for telecommunications, data centers, and other fiber optic applications.

MODEL **Fujikura FSM-16S**	CALIBRATION **Available on request**
CONDITION **Used**	STATUS **In stock**
RFQ / SKU **FSM-16S**	LISTING **https://aumictechlabs.com/products/fsm-16s-2/**

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

NAICS 423690 · 811210 · 541380

This unit

The Fujikura FSM-16S is a portable fusion splicer engineered for single-mode, multimode, dispersion-shifted, and NZ-DS optical fibers in field and installation environments. It delivers typical splice losses of 0.05 dB (SM), 0.02 dB (MM), and 0.08 dB (DS), with return loss exceeding 60 dB. The unit completes splices in approximately 25 seconds and stores data for the last 300 splicing events. Technical Specifications Splice Loss (Typical): 0.05 dB (SM), 0.02 dB (MM), 0.08 dB (DS) Return Loss: >60 dB Splicing Time: ~25 seconds Splice Result Memory: 300 records (loss, offset, error, cleave angle, arc conditions, comments) Splicing Programs: 30 (including 3 factory settings) Magnification: 110X with simultaneous X-Y view Fiber Cleave Length: 8 to 16 mm Proof Test Force: ~2 N (200 g) Altitude Compensation: Up to 3500 m Arc Power Compensation: Automatic by atmospheric pressure with calibration function Splice Protector Compatibility: 40 mm and 60 mm heat-shrinkable types Key Features Handles 250 µm and 900 µm coating

diameters, including UV 250 µm variants 5-inch color anti-reflective LCD display for field visibility Wind protector maintains stable arc in cross winds up to 15 m/s (>30 mph) Battery pack (BTR-05): DC 12 V, 4500 mAh NiMH; ~40 splices per charge, ~30 with tube heater AC adapter (ADC-07): AC 100–240 V (50/60 Hz) input; typical charge time 2.5 hours Optional 12V 2.0 A·h camcorder battery compatible Compact footprint: 150 mm × 150 mm × 150 mm Weight: 2.8 kg (AC adapter), 3.0 kg (with battery) Typical Applications Telecommunications networks, data center installations, field maintenance, and fiber optic cable terminations across SM and MM infrastructure. Compatibility & Integration Modular power bay accepts BTR-05 battery pack or ADC-07 AC adapter. Stores complete splice diagnostics for troubleshooting and quality verification.

Features & description

From manufacturer datasheet

Features

• Single-fiber arc fusion splicer • Clad-to-clad / fixed V-groove alignment • Applicable fibers: SM, MM, DS (typical Fujikura FSM-16S listings) • Fully automatic operation with splice loss estimation • SimultaneousXandYfiber observation • Color LCD monitor (about 5 in class) • Wind protector for outdoor splicing • Compact, lightweight portable form • Battery and AC power options

FSM16S Characteristics / Specifications

PARAMETER	VALUE
Model	FSM-16S
Manufacturer	Fujikura / AFL
Instrument Type	Single-fiber fusion splicer (cladding alignment class)
Fiber Types	Single-mode, multimode, dispersion-shifted (typical listings)
Fiber Count	Single
Alignment Method	Clad-to-clad with precise V-groove
Display	High-resolution color LCD; simultaneous X/Y view
Return Loss	greater than 60 dB class (Fujikura single-fiber family)
Power	AC adapter and NiMH battery options (e.g. BTR-05 class kits)
Operation	Fully automatic with loss estimation Standard Operating Conditions Clean V-grooves and fiber endfaces. Useamatched cleaver and appropriate coating clamps/holders. Observe electrode life and replace per Fujikura intervals. Protect from excessive wind beyond the wind-cover rating.
Applicable fibers	SM, MM, DS (typical Fujikura FSM-16S listings)

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-16S
Manufacturer	Fujikura / AFL
Instrument Type	Single-fiber fusion splicer (cladding alignment class)
Fiber Types	Single-mode, multimode, dispersion-shifted (typical listings)
Fiber Count	Single
Alignment Method	Clad-to-clad with precise V-groove
Display	High-resolution color LCD; simultaneous X/Y view

Typical Average Splice Loss (cladding-alignment family class, cut-back): about 0.05 dB SM; about 0.02 dB MM; about 0.08 dB DS/NZDS class – confirm against FSM-16S manual for this unit

Specifications

PARAMETER	VALUE
Return Loss	greater than 60 dB class (Fujikura single-fiber family)
Power	AC adapter and NiMH battery options (e.g. BTR-05 class kits)
Operation	Fully automatic with loss estimation

Standard Operating Conditions
Clean V-grooves and fiber endfaces. Useamatched cleaver and appropriate coating clamps/holders. Observe electrode life and replace per Fujikura intervals. Protect from excessive wind beyond the wind-cover rating.

Operational Notes
User title says "SM MM" – confirm DS capability on the installed firmware/modes. Do not quote active core-alignment loss figures from the 62S/70S families for the FSM-16S. Inventory whether fiber holders or sheath clamps are included.

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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