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Data Sheet

August 2, 2026

FUJIKURA

Fujikura 22S SM MM Fiber Optic Fusion Splicer

Fujikura 22S SM MM Fiber Optic Fusion Splicer The Fujikura 22S (FSM-22S) is a compact ruggedized active V-groove (cladding-alignment) single-fiber fusion splicer for FTTH, LAN, and access networks. It supports SM (G.652 & G.657), MM (G.651), DSF (G.653), and NZDS (G.655) with typical average splice loss of 0.03 dB SM, 0.01 dB MM, and 0.05 dB DS/NZDS (cut-back). Typical SM splice time is about 9 seconds (some sheets cite about 7-11 s depending on mode). Dual CMOS cameras and about 4.7-inch color LCD support X/Y viewing. Battery capacity is typically about 200 splice/heat cycles with BTR-11; electrode life about 3000 splices (some regional sheets cite longer). Removable sheath clamps allow fiber holders; FUSEConnect compatible. The Fujikura 22S (FSM-22S) is a compact ruggedized active V-groove (cladding-alignment) single-fiber fusion splicer for FTTH, LAN, and access networks. It supports SM (G.652 & G.657), MM (G.651), DSF (G.653), and NZDS (G.655) with typical average splice loss of 0.03 dB SM, 0.01 dB MM, and 0.05 dB DS/NZDS (cut-back). Typical SM splice time is about 9 seconds (some sheets cite about 7-11 s depending on mode). Dual CMOS cameras and about 4.7-inch color LCD support X/Y viewing. Battery capacity is typically about 200 splice/heat cycles with BTR-11; electrode life about 3000 splices (some regional sheets cite longer). Removable sheath clamps allow fiber holders; F



MODEL

Fujikura 22S

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

22S

LISTING

<https://aumictechlabs.com/products/22s-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fujikura 22S is a compact fusion splicer engineered for field splicing of single-mode and multimode optical fibers. Weighing 1140 g and measuring 120 mm × 189 mm × 72 mm, it delivers active V-groove alignment technology for precise core alignment and low splice loss across multiple fiber types. The unit supports 100 splice modes and 30 heating modes, achieving typical splice times of 9 sec (SM FAST) and 11 sec (SM AUTO). A dual CMOS camera system with 4.73" color LCD provides 132X standard magnification and 200X post-splice magnification for real-time monitoring and quality verification.

Technical Specifications

Applicable Fibers: Single-mode (SMF): G.652, G.657 Multimode (MMF): G.651 Dispersion Shifted Fiber (DSF): G.653 Non-Zero Dispersion Shifted Fiber (NZDSF): G.655

Cladding diameter: 125 µm; sheath diameter up to 3 mm with clamp

Cleave length: 5 mm to 16 mm

Splice Loss (cut-back method per ITU-T and IEC standards): Single-mode: 0.03 dB Multimode: 0.01 dB Dispersion Shifted: 0.05 dB Non-Zero Dispersion Shifted: 0.05 dB

Heating Times: FP-03 (250 µm coating): 24 sec typical FP-03 (900 µm coating): 25 sec typical Slim60mm (250 µm coating): 19 sec typical Slim40mm (250 µm coating): 16 sec typical

Operating Environment: Temperature: -10°C to 50°C Humidity: 0 to 95% RH, non-dew Altitude: 0 to 5,000 m above sea level Wind velocity: 15 m/sec

Durability: Shock resistance: 76 cm drop (bottom surface) Dust resistance: 0.1 to 500 µm diameter alumina silicate exposure Rain resistance: 10 mm/hr for 10 min Electrode life: 5,000 splices Splice result storage: Last 10,000 splices

Key Features

Dual moveable V-grooves minimize contamination-induced errors Tension test capability: 1.96 to 2.25 N Battery operation: Typical 200 splice/heating cycles per full charge (BTR-11) Compatible protection sleeves: 60 mm, 40 mm, Fujikura micro sleeves Software update capability

Compatibility & Integration

The 22S interfaces via PC connectivity and supports both standard and specialized protection sleeve formats for field deployment across diverse network infrastructure environments.

Features & description

From manufacturer datasheet

Features

- Active V-groove cladding alignment
- Typical loss 0.03 dB SM / 0.01 dB MM / 0.05 dB DS/NZDS
- Typical about 9 s SM splice; about 24 s heat with FP-60/FP-03 class
- About 4.7-inch TFT color LCD; dual cameras
- About 200 splice/heat cycles (BTR-11)
- Electrode life about 3000 splices
- Shock, dust, and rain resistant; wind to 15 m/s
- USB 2.0; removable sheath clamps / holders
- Weight about 1.14 kg with battery

22S Characteristics / Specifications

PARAMETER	VALUE
Model	22S / FSM-22S
Manufacturer	Fujikura / AFL
Instrument Type	Active V-groove cladding-alignment fusion splicer
Applicable Fibers	SM (G.652 & G.657), MM (G.651), DSF (G.653), NZDS (G.655)
Fiber Count	Single
Cladding Diameter	125 um
Coating Diameter	100 um to 3000 um with sheath clamp
Cleave Length	5-16 mm
Typical Average Splice Loss	0.03 dB SM; 0.01 dB MM; 0.05 dB DS; 0.05 dB NZDS
Splicing Time	typically 9 s SM
Arc Calibration	automatic real-time AUTO; manual available
Splicing Modes	100
Storage	last 2000 results (some sheets 10,000)
Display	4.7-inch TFT color LCD; X, Y, or both; about 200X / 132X class
Viewing	2-axis CMOS
Operating	0-3660 m (some sheets to 5000 m); -10 to 50 C; 0-95% RH non-dew
Proof Test	1.96-2.25 N
Tube Heater	30 modes; typically about 24 s with FP-60/FP-03 60 mm
Sleeves	60 mm, 40 mm, micro
Battery Cycles	typically 200 with BTR-11
Electrode Life	about 3000 splices
Power	100-240 VAC adapter; 14.8 V DC battery
Terminals	USB 2.0
Wind Protection	max 15 m/s
Dimensions	about 120 × 189 × 71-72 mm

PARAMETER	VALUE
Weight	about 1.14 kg with battery
Related Holders	FH-60-250, FH-60-900, FH-60-DC250, FH-FC-20/30, FH-60-LT900 Standard Operating Conditions Clean V-grooves. Use sheath clamps or holders per cable type. Charge BTR-11 per Fujikura guidance. Replace electrodes near 3000 splices.

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	
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Standard Operating Conditions	
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Operational Notes	
Active V-groove is cladding alignment-not PAS/core alignment like 90S. Confirm 22S vs later 41S/42S platforms if WSI/AFC features are required.	

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>

NIST-traceable calibration · SAM registered ·
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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.