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Data Sheet

August 2, 2026

FUJIKURA

Fujikura 70S+ SM MM Fixed V-Groove Ribbon Fiber Fusion Splicer

Fujikura 70S+ Core Alignment Fusion Splicer The Fujikura 70S+ is a rugged active core-alignment single-fiber fusion splicer for telecom field use. It splices SM (G.652/G.657), MM (G.651.1), DS (G.653), CS (G.654), NZDS (G.655/G.656), and erbium-doped fiber with typical cut-back losses of 0.02 dB SM, 0.01 dB MM, and 0.04 dB DS/NZDS. Ultra-fast splice modes reach about 6 seconds; tube heating can be about 9-13 seconds depending on sleeve. Dual cameras and a 4.7-inch TFT LCD support core-axis alignment and loss estimation. Bluetooth connectivity and IP-class shock/dust/rain resistance support modern field workflows. Note: catalog titles that say "Fixed V-Groove Ribbon" for 70S+ do not match OEM identity—the 70S+ is a core-alignment single-fiber splicer; ribbon mass splicing is the separate 70R+ platform. The Fujikura 70S+ is a rugged active core-alignment single-fiber fusion splicer for telecom field use. It splices SM (G.652/G.657), MM (G.651.1), DS (G.653), CS (G.654), NZDS (G.655/G.656), and erbium-doped fiber with typical cut-back losses of 0.02 dB SM, 0.01 dB MM, and 0.04 dB DS/NZDS. Ultra-fast splice modes reach about 6 seconds; tube heating can be about 9-13 seconds depending on sleeve. Dual cameras and a 4.7-inch TFT LCD support core-axis alignment and loss estimation. Bluetooth connectivity and IP-class shock/dust/rain resistance support modern field workflows. Note: catalog t



MODEL

Fujikura 70S+

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

70S+

LISTING

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

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fujikura 70S+ is a core alignment fusion splicer engineered for precise splicing of single-mode, multimode, and specialty optical fibers. It delivers typical splice losses of 0.02 dB (SM), 0.01 dB (MM), and 0.04 dB (DS/NZDS) with return loss exceeding 60 dB, measured via cut-back methodology to ITU-T and IEC standards. The fixed V-groove alignment system accommodates cladding diameters from 80 μm to 150 μm and coating diameters up to 3,000 μm , with cleave lengths of 5 mm to 16 mm. Technical Specifications Applicable Fiber Types Single-mode (SMF): G.652 & G.657 Multimode (MMF): G.651.1 Dispersion Shifted (DSF): G.653 Cut-off Shifted (CS): G.654 Non-Zero Dispersion Shifted (NZDS): G.655 & G.656 Erbium-doped fiber Splice Loss Performance Single-mode: 0.02 dB typical average Multimode: 0.01 dB typical average Dispersion Shifted: 0.04 dB typical average NZDS: 0.04 dB typical average Return Loss: >60 dB Splicing Time ULTRA FAST mode: 6 seconds SM FAST mode: 7 seconds SM AUTO mode: 10 seconds AUTO mode: 15 seconds (SM fiber) Total splice process time: approximately 21 seconds Heating Performance FP-03 sleeve (250 μm coating): 13 seconds typical FP3(40): 17 seconds typical Fujikura micro sleeves: 5–16 seconds Slim60mm (250 μm coating): 9 seconds typical FP-03 (900 μm coating): 14 seconds typical Automated clamshell heater: 13-second shrink time Fiber Dimensions Cladding diameter: 80 μm to 150 μm Coating diameter: 100 μm to 3,000 μm Cleave length: 5 mm to 16 mm Imaging & Display Magnification: 320X (single axis), 200X (dual axis) Display orientation: front or rear monitor with automated adjustment Fiber view: X or Y, or simultaneous X and Y Key Features 100 preset and user-programmable splicing modes Automatic arc calibration with real-time adjustment and memory-based mode selection Manual arc calibration available 2,000 splice results stored in internal memory Built-in tube heater with 30 heating modes and auto-start function Clamshell-design heater applies dual-sided thermal control Field-grade durability for shock, dust, and moisture exposure Typical Applications Field splicing of terrestrial and specialty fiber links; laboratory fusion splicing operations; telecommunications infrastructure deployment; high-precision splicing where low loss and minimal return loss are critical. Compatibility & Integration Dual-camera core axis alignment provides real-time splice loss estimation. Compatible with Fujikura protection sleeves including FP-03, FP3(40), and micro-sleeve designs across multiple coating diameters.

Features & description

From manufacturer datasheet

Features

- Active core-to-core alignment (not fixed V-groove ribbon)
- Typical splice loss 0.02 dB SM / 0.01 dB MM / 0.04 dB DS/NZDS
- ULTRA FAST about 6 s; SM FAST 7 s; SM AUTO 10 s
- Tube heater; typical about 9-13 s class heating
- About 200 splice/heat cycles per battery
- Electrode life about 5000 arcs
- Wind protection to about 15 m/s; drop/dust/rain resistance
- Bluetooth 4.1 LE class wireless (OEM)
- USB for PC communication

70S Characteristics / Specifications

PARAMETER	VALUE
Model	70S+
Manufacturer	Fujikura / AFL
Instrument Type	Active core-alignment single-fiber fusion splicer
Applicable Fibers	SM (G.652 & G.657), MM (G.651.1), DS (G.653), CS (G.654), NZDS (G.655 & G.656), erbium-doped
Cladding Diameter	80-150 um
Coating Diameter	100 um to 3000 um (sheath clamp class)
Cleave Length	5-16 mm with sheath clamp
Splicing Modes / Heating Modes	about 100 splice / 30 heating
Typical Average Splice Loss	0.02 dB SM; 0.01 dB MM; 0.04 dB DS; 0.04 dB NZDS (cut-back, ITU-T)
Splicing Time	ULTRA FAST 6 s; SM FAST 7 s; SM AUTO 10 s; AUTO about 15 s
Splice Loss Estimate	dual camera core axis alignment data
Storage	last 2000 to 20,000 results (revision dependent)
Display	dual cameras; 4.7-inch TFT color LCD; about 320X / 200X magnification class
Operating	0-5000 m; 0-95% RH; -10 to 50 C; wind 15 m/s
Proof Test	1.96-2.25 N
Tube Heating	typically 13 s FP-03 (250 um); 9 s slim 60 mm class
Battery Cycles	typically 200 with BTR-09 and power save
Electrode Life	typically 5000 arcs
Dimensions	about 146 × 159 × 150 mm
Weight	about 2.5-2.7 kg with adapter/battery
Power	100-240 VAC or 10-15 V DC with ADC-18; 14.8 V BTR-09
Attenuator Mode	intentional 0.1-15 dB in 0.1 dB steps Related Platform 70R+: ribbon / mass fusion sibling – not the 70S+ Standard Operating Conditions Clean cameras and V-grooves. Use sheath clamps or FH-70 holders as configured. Replace electrodes near end of life.

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

OEM identity is core-alignment single-fiber 70S+. Ignore incorrect "Fixed V-Groove Ribbon" wording in some inventory titles when describing the instrument.

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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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.