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Data Sheet

August 2, 2026

FUJIKURA

Fujikura 19S Cladding Alignment Fusion Splicer

Fujikura 19S Cladding Alignment Fusion Splicer The Fujikura 19S is a low-cost fixed V-groove single-fiber cladding-alignment fusion splicer with ruggedized features similar in class to the 70S generation automation style (programmable wind protector and auto-start tube heater on many kits). Typical average splice loss is 0.05 dB SM, 0.02 dB MM, and 0.08 dB DS/NZDS (cut-back). Typical SM splice time is about 11 seconds (SM FAST / SM AUTO / AUTO). Dual cameras and about 4.73-inch TFT color LCD support X/Y viewing with front or rear monitor options. Battery capacity is typically about 200 splice/heat cycles with power save; power via ADC-18 and BTR-09. Transit case can serve as a workstation. The Fujikura 19S is a low-cost fixed V-groove single-fiber cladding-alignment fusion splicer with ruggedized features similar in class to the 70S generation automation style (programmable wind protector and auto-start tube heater on many kits). Typical average splice loss is 0.05 dB SM, 0.02 dB MM, and 0.08 dB DS/NZDS (cut-back). Typical SM splice time is about 11 seconds (SM FAST / SM AUTO / AUTO). Dual cameras and about 4.73-inch TFT color LCD support X/Y viewing with front or rear monitor options. Battery capacity is typically about 200 splice/heat cycles with power save; power via ADC-18 and BTR-09. Transit case can serve as a workstation. FTTx and access-network single-fiber cladding-alignment



MODEL

Fujikura 19S

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

19S

LISTING

<https://aumictechlabs.com/products/19s-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fujikura 19S is a single-fiber cladding alignment fusion splicer engineered for field deployment in demanding fiber optic network environments. Built for durability, it delivers consistent low-loss splices across single-mode, multimode, and specialty fiber types while maintaining a compact footprint of 146 W × 159 D × 150 H mm.

Technical Specifications

Alignment & Performance Cladding alignment technology with dual-camera splice loss estimation
Typical splice loss: SM 0.05 dB, MM 0.02 dB, DS 0.08 dB, NZDS 0.08 dB
Return loss: >60 dB
Splice time: 9 seconds (SM FAST mode), 11 seconds (SM AUTO mode), 15 seconds (AUTO mode)

Fiber Compatibility Single-mode (SM), multimode (MM), dispersion-shifted (DS), and non-zero dispersion-shifted (NZDS) fibers
Cladding diameter: 125 µm; coating diameter: 100 to 1000 µm
Cleaved length: 5 mm to 16 mm

Heating & Electrodes Built-in tube heater with 30 heating modes and clamshell design
Typical heating time: 14 seconds (Fujikura FP-03 or micro sleeves)
Electrode life: 3,000 arc discharges or 2,000 welds per pair
Tension test: 1.96 to 2.25 N

Display & Optics 4.73" severe-impact resistant color LCD monitor
Dual cameras; 320X magnification (single view), 200X (simultaneous view)
Stores last 2,000 splice results

Key Features Fully ruggedized construction - withstands shock, dust, and moisture exposure
Dual power options: AC adapter (100–240 V AC via ADC-18) or Li-ion battery (14.8 V DC via BTR-09) with typical 180 splice/heat cycles per charge
Weight: 2.3 kg with AC adapter; 2.5 kg with battery
Operating range: –10°C to +50°C, 0 to 3,660 m altitude, 0–95% RH non-condensing, wind resistance to 15 m/s

Typical Applications Access networks and PON/FTTx deployments
Submarine cable systems (SCS) and local fiber links
Field splicing requiring low splice loss and rapid cycle times

Compatibility & Integration Fiber types per ITU-T: G.652/657 (SM), G.651 (MM), G.653 (DSF), G.655 (NZDSF)
Protection sleeves: 60 mm, 40 mm, and micro series
USB 1.1 (Type-B) for PC data transfer
Mini-DIN (6-pin) connector for HJS-02/03 and SH-8 tube heater integration

Features & description

From manufacturer datasheet

Features

• Fixed V-groove cladding alignment • Typical loss 0.05 / 0.02 / 0.08 / 0.08 dB (SM/MM/DS/NZDS) • Typical about 11 s SM splice • Dual cameras; about 4.73-inch TFT LCD • About 200 splice/heat cycles with power save • Auto-start tube heater (family) • ADC-18 / BTR-09 power class • Wind protection to 15 m/s • Related: 19R ribbon; 70S core-alignment class sibling features

19S Characteristics / Specifications

PARAMETER	VALUE
Model	19S / FSM-19S
Manufacturer	Fujikura / AFL
Instrument Type	Fixed V-groove cladding-alignment fusion splicer
Applicable Fibers	SM (G.652 & G.657), MM (G.651), DS (G.653), NZDS (G.655)
Cladding Diameter	125 um
Coating Diameter	100-1000 um
Cleave Length	5-16 mm
Typical Average Splice Loss	0.05 dB SM; 0.02 dB MM; 0.08 dB DS; 0.08 dB NZDS
Splicing Time	SM FAST / SM AUTO / AUTO typically 11 s
Arc Calibration	automatic real-time AUTO; manual available
Splicing Modes	100 preset and user programmable
Storage	last 2000 results
Display	X, Y, or both; front or rear; dual cameras; 4.73-inch TFT
Magnification	320X single; 200X dual
Operating	0-3660 m; 0-95% RH; -10 to 50 C
Proof Test	1.96-2.25 N
Tube Heater	built-in; auto-start; typically 17 s FP3(40); 5-16 s micro
Sleeves	60 mm, 40 mm, micro
Battery Cycles	typically 200 with power save
Power	100-240 VAC or 10-15 VDC with ADC-18; 14.8 V DC with BTR-09
Terminals	USB 1.1 (USB-B); Mini-DIN 6-pin for HJS-02/03 and SH-8
Wind Protection	max 15 m/s
Dimensions	146 × 159 × 150 mm
Weight	2.3 kg with AC adapter; 2.5 kg with battery Standard Operating Conditions Clean V-grooves. Use sheath clamps or holders as equipped. Charge BTR-09 per Fujikura guidance. Replace electrodes at recommended intervals. Operational Notes

PARAMETER	VALUE
Related	19R ribbon; 70S core-alignment class sibling features

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.

performance is preferred over core alignment.	
Key Features	
- Fixed V-groove cladding alignment - Typical loss 0.05 / 0.02 / 0.08 / 0.08 dB (SM/MM/DS/NZDS) - Typical about 11 s SM splice - Dual cameras; about 4.73-inch TFT LCD - About 200 splice/heat cycles with power save - Auto-start tube heater (family) - ADC-18 / BTR-09 power class - Wind protection to 15 m/s - Related: 19R ribbon; 70S core-alignment class sibling features	
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Standard Operating Conditions

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Operational Notes

User title "Cladding Alignment" matches fixed V-groove 19S—not PAS/core alignment like 62S+/90S.

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.