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Data Sheet

August 1, 2026

FUJIKURA

Fujikura 62S SM MM Core Alignment Fiber Fusion Splicer

Fujikura 62S SM/MM Core Alignment Fiber Fusion Splicer The Fujikura 62S is an active core-alignment single-fiber fusion splicer for single-mode, multimode, DS, and NZDS fibers. It provides automatic real-time arc calibration, programmable splice and heat modes, a built-in tube heater, and typical splice times down to about 6 seconds in ULTRA FAST mode. Typical average splice loss by cut-back is 0.02 dB SM, 0.01 dB MM, and 0.04 dB DS/NZDS. Fiber holders such as FH-60-250 / FH-60-900 or sheath clamps CLAMP-S21A are used depending on kit configuration. The later 62S+ updates the platform with expanded fiber types (including G.654/G.657 class) and FH-70 series holder options. The Fujikura 62S is an active core-alignment single-fiber fusion splicer for single-mode, multimode, DS, and NZDS fibers. It provides automatic real-time arc calibration, programmable splice and heat modes, a built-in tube heater, and typical splice times down to about 6 seconds in ULTRA FAST mode. Typical average splice loss by cut-back is 0.02 dB SM, 0.01 dB MM, and 0.04 dB DS/NZDS. Fiber holders such as FH-60-250 / FH-60-900 or sheath clamps CLAMP-S21A are used depending on kit configuration. The later 62S+ updates the platform with expanded fiber types (including G.654/G.657 class) and FH-70 series holder options. Core-alignment splicing for telecom SM and MM plant; FTTx and premise construction; specialt



MODEL

Fujikura 62S

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

62S

LISTING

<https://aumictechlabs.com/products/62s-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fujikura 62S is a core alignment fusion splicer for single-mode and multimode optical fibers. It employs Profile Alignment System (PAS) technology with dual-axis CMOS camera observation to deliver automatic core-to-core alignment, consistent low splice loss, and accurate loss estimation across fiber types. Field and laboratory deployments benefit from real-time arc calibration, programmable splice and heating modes, and heritage-proven electrode performance.

Technical Specifications Fiber Compatibility Single Mode: ITU-T G.652, G.657 Multimode: ITU-T G.651 Dispersion Shifted: ITU-T G.653 Non-Zero Dispersion Shifted: ITU-T G.655 Cladding diameter: 80–150 μm Sheath diameter: 100–3000 μm Splice Loss Performance Single Mode: 0.02 dB typical Multimode: 0.01 dB typical Dispersion Shifted: 0.04 dB typical Non-Zero Dispersion Shifted: 0.04 dB typical Return Loss: >60 dB Alignment & Observation Dual-axis CMOS camera system at 320X magnification (400X post-splice) Core-to-core alignment for SM/DS/NZDS fibers Cladding-to-cladding alignment for MM fiber Real-time arc calibration with cladding illumination feedback 4.73" color LCD display Splice Modes & Timing 100 preset and user-programmable splice modes Ultra Fast mode: 6 sec SM Fast mode: 7 sec SM Auto mode: 10 sec Tube heating: 15–25 sec depending on sleeve type and coating diameter Data Storage & Electrodes Stores last 10,000–15,000 splices Electrode life: 3,000 arc-discharges per pair; 5,000 splices Spare electrodes: ELCT2-20A Cleave & Tension Cleave length: 5–16 mm with sheath clamp Tension test load: 1.96–2.25 N (200–230 gf) Key Features Attenuation splice function: 0.1–15 dB in 0.1 dB steps for in-line fixed attenuators Splice loss estimation accounting for core deformations and axis offsets Manual and automatic arc power calibration 30 preset and user-programmable heating modes AC100–240V, 50–60 Hz or DC10–12V operation Typical Applications Network installation and maintenance, cable plant splicing, lab characterization, and field repairs where low-loss, high-return-loss joints are required across heterogeneous fiber types.

Features & description

From manufacturer datasheet

Features

- Active core alignment
- Applicable fibers: SM (G.652/G.657), MM (G.651), DS (G.653), NZDS (G.655) – 62S; 62S+ adds CS G.654 and related
- Cladding diameter 80-150 μm ; coating 100-1000 μm
- Cleave length 5-16 mm
- Typical splice loss 0.02 dB SM / 0.01 dB MM / 0.04 dB DS/NZDS
- Splice time: ULTRA FAST about 6 s; SM FAST about 7 s; SM AUTO about 10 s
- Built-in tube heater; typical 23 s with FP-03 sleeve
- About 200 splice/heat cycles per battery with power save
- Electrode life about 3000 arcs class
- Wind/environmental protection for field use

62S Characteristics / Specifications

PARAMETER	VALUE
Model	62S
Manufacturer	Fujikura / AFL
Instrument Type	Active core-alignment fusion splicer
Applicable Fibers	SM (G.652/G.657), MM (G.651), DS (G.653), NZDS (G.655) – 62S; 62S+ adds CS G.654 and related
Cladding Diameter	80 um to 150 um
Coating Diameter	100 um to 1000 um
Fiber Cleave Length	5 to 16 mm
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 (SM fiber)
Arc Calibration	Automatic real-time; manual available
Mechanical Proof Test	1.96 to 2.25 N
Tube Heater	Built-in; about 30 heating modes; auto-start
Tube Heating Time	typically 23 s FP-03; 17 s FP3(40); 5-16 s micro sleeves
Protection Sleeve Length	60 mm, 40 mm, micro
Battery Cycles	typically 200 splice/heat with power save
Operating Environment	altitude to about 5000 m; 0-95% RH; -10 to 50 C
Related Holders	FH-60-250, FH-60-900, FH-60-160, FH-60-LT900; sheath clamp CLAMP-S21A
Cleavers (kit examples)	CT-06A, CT-30A Standard Operating Conditions Clean V-grooves and cameras. Use matched holders or sheath clamps for coating diameter. Perform arc calibration as prompted. Replace electrodes near end of life. Operational Notes
Splice time	ULTRA FAST about 6 s; SM FAST about 7 s; SM AUTO about 10 s

62S Specifications

PARAMETER	VALUE
Fujikura 62S SM/MM Core Alignment Fiber Fusion Splicer	Overview
Key Features	- Active core alignment
Technical Specifications	Model: 62S

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Model	62S
Manufacturer	Fujikura / AFL
Instrument Type	Active core-alignment fusion splicer
Applicable Fibers	SM (G.652 and G.657), MM (G.651), DS (G.653), NZDS (G.655)
Cladding Diameter	80 um to 150 um
Coating Diameter	100 um to 1000 um
Fiber Cleave Length	5 to 16 mm
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 (SM fiber)
Arc Calibration	Automatic real-time; manual available
Mechanical Proof Test	1.96 to 2.25 N
Tube Heater	Built-in; about 30 heating modes; auto-start
Tube Heating Time	typically 23 s FP-03; 17 s FP3(40); 5-16 s micro sleeves
Protection Sleeve Length	60 mm, 40 mm, micro
Battery Cycles	typically 200 splice/heat with power save
Operating Environment	altitude to about 5000 m; 0-95% RH; -10 to 50 C
Related Holders	FH-60-250, FH-60-900, FH-60-160, FH-60-LT900; sheath clamp CLAMP-S21A
Cleavers (kit examples)	CT-06A, CT-30A Standard Operating Conditions Clean V-grooves and cameras. Use matched holders or sheath clamps for coating diameter. Perform arc calibration as prompted. Replace electrodes near end of life. Operational Notes

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 protection for field use

Technical Specifications

Technical Specifications

PARAMETER	VALUE
Model	62S
Manufacturer	Fujikura / AFL
Instrument Type	Active core-alignment fusion splicer
Applicable Fibers	SM (G.652 and G.657), MM (G.651), DS (G.653), NZDS (G.655)
Cladding Diameter	80 um to 150 um
Coating Diameter	100 um to 1000 um
Fiber Cleave Length	5 to 16 mm
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 (SM fiber)
Arc Calibration	Automatic real-time; manual available
Mechanical Proof Test	1.96 to 2.25 N
Tube Heater	Built-in; about 30 heating modes; auto-start
Tube Heating Time	typically 23 s FP-03; 17 s FP3(40); 5-16 s micro sleeves
Protection Sleeve Length	60 mm, 40 mm, micro
Battery Cycles	typically 200 splice/heat with power save
Operating Environment	altitude to about 5000 m; 0-95% RH; -10 to 50 C
Related Holders	FH-60-250, FH-60-900, FH-60-160, FH-60-LT900; sheath clamp CLAMP-S21A
Cleavers (kit examples)	CT-06A, CT-30A

Standard Operating Conditions

Clean V-grooves and cameras. Use matched holders or sheath clamps for coating diameter. Perform arc calibration as prompted. Replace electrodes near end of life.

Operational Notes

Confirm faceplate 62S vs 62S+. User title "Core Alignment" matches the 62S active core-alignment design. Do not use FH-8 ribbon holders on this single-fiber machine.

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.