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Data Sheet

August 13, 2026

FITEL

Fitel S199s Optical Fiber Fusion Splicer

Fitel S199S Clad Alignment Fusion Splicer The Furukawa Fitel S199S is a compact clad-alignment (fixed V-groove) single-fiber fusion splicer for SM, MM, DSF, and NZDS fibers. It emphasizes fast splicing (about 25 s), fail-safe pre-splice checks, and field portability with insertable AC/DC or battery power packs in the S199 family chassis. The Furukawa Fitel S199S is a compact clad-alignment (fixed V-groove) single-fiber fusion splicer for SM, MM, DSF, and NZDS fibers. It emphasizes fast splicing (about 25 s), fail-safe pre-splice checks, and field portability with insertable AC/DC or battery power packs in the S199 family chassis.



MODEL

Fitel S199S

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

S199S

LISTING

<https://aumictechlabs.com/products/s199s-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fitel S199s is a core alignment fusion splicer engineered for high-precision splicing of single-mode, multimode, dispersion-shifted, and non-dispersion-shifted optical fibers in field and laboratory environments. The platform delivers consistently low splice loss across fiber types while supporting single fibers and multi-fiber ribbon configurations up to 24 fibers, making it suitable for both traditional and ultra bend-insensitive fiber applications. Technical Specifications Splice Performance Single-mode average splice loss: 0.04 dB Multimode average splice loss: 0.03 dB Dispersion-shifted average splice loss: 0.07 dB Non-dispersion-shifted average splice loss: 0.07 dB Reflection: -60 dB or lower Typical splice time: 30 seconds for ribbon fibers (1–12 fiber ribbon); some models achieve 25 seconds Fiber Specifications Cladding diameter: 125 μ m

Coated fiber range: 250 to 900 μm Fiber cleaver length: 10 mm Ribbon separator compatibility: 2 to 12-fiber ribbons Ribbon splitter compatibility: 4, 8, 12, and 24-fiber ribbon configurations Environmental Operating Range Temperature: -10°C to $+50^{\circ}\text{C}$ Key Features Simultaneous dual CCD camera inspection enables rapid fiber alignment V-groove illumination lamp assists fiber loading and positioning Fine-tuning button for core position adjustment within V-groove Automatic arc calibration optimizes splice quality Embedded diagnostic function validates machine status pre-splice Failsafe operator controls prevent splicing errors 5-inch color LCD display with anti-reflection coating and sunlight visibility NTSC video output (PIN connector) for external monitoring Power & Portability AC/DC converter and battery pack options Approximately 200 splicing cycles per charge from large-capacity battery system Main body dimensions: 150 mm (W) $\times$ 150 mm (D) $\times$ 150 mm (H) without LCD Weight with LCD: 2.7 kg; total system weight approximately 3.3 kg Compatibility & Integration The S199s accommodates single fibers and ribbon fibers (S199M8 for 8-fiber, S199M12 for up to 12-fiber, S199M24 for up to 24-fiber variants). Supports SM, MM, DS, NZDS, and ultra bend-insensitive fiber types.

Features & description

From manufacturer datasheet

Features

• Clad alignment fixed V-groove method • Applicable fibers SM, MM, DSF, NZDSF • Typical splice time about 25 seconds • Fail-safe pre-splice parameter checks and alarms • Insertable AC/DC converter or Ni-based battery pack (S199 family) • Color monitor with X/Y fiber views (S199 family class) • Protection sleeve heater for 40 mm and 60 mm sleeves • Compact approximately cubic chassis

Applications

• Single-fiber SM/MM/DS/NZDS splicing in the field • Outside-plant and premises fiber restoration • Production and maintenance splicing with estimated-loss feedback • Compact portable splicing where clad alignment is sufficient • Jobs needing protection-sleeve heating for 40 mm / 60 mm sleeves

Specifications

PARAMETER	VALUE
Model	S199S
Manufacturer	Furukawa Fitel
Instrument Type	Clad Alignment Single Fiber Fusion Splicer
Alias	Fitel S199s; S199S Single Fiber Splicer
Splicing method	clad alignment fixed V-groove
Applicable fibers	SM; MM; DSF; NZDSF
Fiber cladding diameter	125 µm
Coated fiber range	250 µm to 900 µm
Cleave length	10 mm
Typical splice loss SM	0.04 dB
Typical splice loss MM	0.03 dB
Typical splice loss NZDS	0.07 dB
Typical splice loss DS	0.07 dB
Splice time typical	25 seconds
Operating temperature	-10 C to +50 C
Return loss class	-60 dB family class listings
Heater sleeves	40 mm and 60 mm
Heater time 40 mm class	about 90 s (S199 family)
Heater time 60 mm class	about 110 to 120 s (S199 family)
Tension test class	200 g (S199 family)
Splice memory class	150 splices (S199 family)
Monitor class	5 inch color; about 35x magnification (S199 family)
Dimensions class	150 mm x 150 mm x 150 mm (S199 family body)
Weight body class	about 2.9 kg
Weight with power class	about 3.5 kg

PARAMETER	VALUE
AC power	100 to 240 V 50/60 Hz via insertable converter
DC battery class	12 V insertable pack
Storage temperature class	-40 C to +60 C
Humidity class	up to 90% non-condensing family listings
Altitude class	up to about 3658 m family listings
Wind protection class	up to about 30 mph family listings
Languages class	multiple including 10 language family listings

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	class: -40 C to +60 C
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Languages class	multiple including 10 language family listings Notes Numeric core splice specs from Fitel S199S reseller OEM summaries; heater/memory/size/power rows are S199 family (S199S/S199M) characteristics from Furukawa S199 series documentation. Confirm exact heater times, monitor, and power-pack fit on the S199S serial configuration.

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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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.