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Data Sheet

August 15, 2026

FITEL

Fitel S175 Arc Fusion Splicer Kit

Fitel Furukawa S175 Direct Core Monitoring Fusion Splicer The Fitel S175 is a single-fiber direct core-monitoring arc fusion splicer for silica SM, MM, DS, and EDF fiber. Furukawa Review Table 1 and the S175 version 2000 user manual list die-cast aluminum body 181 × 285 × 181 mm, mass 6.3 kg, AC 85 to 264 V or DC 10 to 16 V, standby 20 W and maximum 70 W, 5 inch color LCD with simultaneous X and Y images at 132x/264x, typical splice 17 s (high speed) to 20 s, heater 75 s with S922 or 90 s with S921, average splice loss 0.02 dB SM / 0.01 dB MM / 0.04 dB DS on identical Furukawa fiber, return loss 60 dB or better, and 200 g tension test. The Fitel S175 is a single-fiber direct core-monitoring arc fusion splicer for silica SM, MM, DS, and EDF fiber. Furukawa Review Table 1 and the S175 version 2000 user manual list die-cast aluminum body 181 × 285 × 181 mm, mass 6.3 kg, AC 85 to 264 V or DC 10 to 16 V, standby 20 W and maximum 70 W, 5 inch color LCD with simultaneous X and Y images at 132x/264x, typical splice 17 s (high speed) to 20 s, heater 75 s with S922 or 90 s with S921, average splice loss 0.02 dB SM / 0.01 dB MM / 0.04 dB DS on identical Furukawa fiber, return loss 60 dB or better, and 200 g tension test. Field and factory single-fiber splicing of SM, MM, DS, and EDF cables where core alignment and loss estimation are required.



MODEL

Fitel S175

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

S175

LISTING

<https://aumictechlabs.com/products/s175-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fitel S175 is a fusion splicer known for its portability and solid design. It features automated splicing and heating functions, reducing operator errors and improving efficiency. The S175 supports various fiber types and offers consistent performance in diverse environmental conditions. It's a suitable choice for telecom installations, maintenance, and repair work.

S175 Characteristics / Specifications

PARAMETER	VALUE
Model	S175
Instrument Type	Direct core monitoring arc fusion splicer
Fiber Types	silica SM, MM, DS, and EDF
Cladding Diameter	0.10 to 0.15 mm
Coating Diameter	0.25 to 0.90 mm
Cleave Length	16 mm standard, 10 mm optional on 900 um coating
Average Splice Loss Sm	0.02 dB on identical Furukawa SM fiber
Average Splice Loss Mm	0.01 dB on identical Furukawa MM fiber
Average Splice Loss Ds	0.04 dB on identical Furukawa DS fiber
Return Loss	60 dB or better
Estimation Accuracy	plus or minus 0.05 dB at loss 0.4 dB or less; plus or minus 15 percent above 0.4 dB
Splice Time High Speed	17 s typical
Splice Time Accurate	19 to 20 s typical
Heater Time	75 s with S922, 90 s with S921 including cooling
Tension Test	200 g (0.4 lbf), 440 g optional
Program Count	32 splice programs with one auto splice mode (4 preset plus 28 custom in field listings)
Attenuation Splice Range	0 to 10 dB, 0.1 dB steps
Monitor	5 inch color LCD, simultaneous X and Y, 132x and 264x
Ac Input	85 to 264 V, also listed 100/120 V and 200/240 V 50/60 Hz
Dc Input	10 to 16 V
Power Consumption	20 W standby, 70 W maximum
Dimensions	181 × 285 × 181 mm
Mass	6.3 kg
Operating Temperature	minus 10 C to plus 50 C class on S175 version 2000 tables

PARAMETER	VALUE
Humidity	95 percent RH noncondensing class
Manufacturer	Fitel Furukawa Electric
Literature	Furukawa Review S175 paper Table 1 and S175 version 2000 user manual section 3.1
Family	Fitel S175 core aligning splicers
Form Factor	portable aluminum fusion splicer
System Role	single fiber core aligned splice
Attenuation	Splice Range: 0 to 10 dB, 0.1 dB steps

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	minus 10 C to plus 50 C class on S175 version 2000 tables
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Humidity	95 percent RH noncondensing class
Manufacturer	Fitel Furukawa Electric
Literature	Furukawa Review S175 paper Table 1 and S175 version 2000 user manual section 3.1
Family	Fitel S175 core aligning splicers
Form Factor	portable aluminum fusion splicer
System Role	single fiber core aligned splice Notes Numeric rows from Furukawa Review S175 Table 1 and the Fitel S175 version 2000 user manual (181 x 285 × 181 mm, 6.3 kg, 85 to 264 VAC / 10 to 16 VDC, 20/70 W, 0.02/0.01/0.04 dB, 17 to 20 s splice, 75/90 s heat, 200 g tension). Electrode life and full environmental tables are on the same manual specification pages.

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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Return Loss	60 dB or better
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Dimensions	181 x 285 x 181 mm
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Manufacturer	Fitel Furukawa Electric
Literature	Furukawa Review S175 paper Table 1 and S175 version 2000 user manual section 3.1
Family	Fitel S175 core aligning splicers
Form Factor	portable aluminum fusion splicer
System Role	single fiber core aligned splice

Notes

Numeric rows from Furukawa Review S175 Table 1 and the Fitel S175 version 2000 user manual (181 x 285 x 181 mm, 6.3 kg, 85 to 264 VAC / 10 to 16 VDC, 20/70 W, 0.02/0.01/0.04 dB, 17 to 20 s splice, 75/90 s heat, 200 g tension). Electrode life and full environmental tables are on the same manual specification pages.

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

788 S 500 E, Pleasant Grove, UT 84062
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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.