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Data Sheet

August 15, 2026

FITEL

Fitel S176 Arc Fusion Splicer Kit

Fitel Furukawa S176 Direct Core Monitoring Fusion Splicer The Fitel S176 is the successor core-aligning fusion splicer family (types CF, CR, and LP) for SM, DS, MM, NZDS, CS980, EDF, and related fibers. Furukawa Review No. 21 Table 1 lists high-speed splice 11 s and high-precision 13 s, SM 0.02 dB / DS 0.04 dB / MM 0.01 dB / NZDS 0.04 dB average loss, estimation plus or minus 0.05 dB at or below 0.4 dB, 5 inch color LCD at 132x/264x, AC 85 to 264 V 50/60 Hz, CF/CR size 169 × 203 × 179.5 mm at 4.2 kg with 22.66/56.23 W normal/max, and LP size 192 × 277 × 154 mm at 4.8 kg with 28.5/65.63 W. Heater times are 90 s for 60 mm sleeves and 40 s for 20 mm mini sleeves. Up to 64 fusion programs are stored. The Fitel S176 is the successor core-aligning fusion splicer family (types CF, CR, and LP) for SM, DS, MM, NZDS, CS980, EDF, and related fibers. Furukawa Review No. 21 Table 1 lists high-speed splice 11 s and high-precision 13 s, SM 0.02 dB / DS 0.04 dB / MM 0.01 dB / NZDS 0.04 dB average loss, estimation plus or minus 0.05 dB at or below 0.4 dB, 5 inch color LCD at 132x/264x, AC 85 to 264 V 50/60 Hz, CF/CR size 169 × 203 × 179.5 mm at 4.2 kg with 22.66/56.23 W normal/max, and LP size 192 × 277 × 154 mm at 4.8 kg with 28.5/65.63 W. Heater times are 90 s for 60 mm sleeves and 40 s for 20 mm mini sleeves. Up to 64 fusion programs are stored. Factory component splicing and outdoor constr



MODEL

Fitel S176

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

S176

LISTING

<https://aumictechlabs.com/products/s176-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Fitel S176 fusion splicer is a reliable tool for creating low-loss optical fiber splices. It features a compact design for portability and ease of use in the field. With its automated splicing programs, the S176 ensures consistent and high-quality splices. The unit also offers a fast heating cycle, reducing overall splicing time. Its solid construction makes it suitable for demanding environments, and its intuitive interface simplifies operation for both experienced and novice users.

S176 Characteristics / Specifications

PARAMETER	VALUE
Model	S176
Instrument Type	Direct core monitoring arc fusion splicer
Type Variants	S176CF cubic front monitor, S176CR cubic rear monitor, S176LP low profile
Fiber Types	SM, DS, MM, NZDS, CS980, CS980-SM, FeIX1060-SM, EDF-SM
Average Splice Loss Sm	0.02 dB
Average Splice Loss Ds	0.04 dB
Average Splice Loss Mm	0.01 dB
Average Splice Loss Nzds	0.04 dB
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	11 s
Splice Time High Precision	13 s
Cleave Length Thin	5 to 16 mm for fibers greater than 0.25 mm diameter
Cleave Length Thick	16 mm for 0.4 to 0.9 mm fibers, 10 mm optional
Heater 60 Mm	90 s
Heater 20 Mm Mini	40 s
Monitor	5 inch color LCD, two screen simultaneous, 132x and 264x automatic
Program Memory	64 fusion programs
Ac Input	85 to 264 V, 50 to 60 Hz
Power Cf Cr	22.66 W normal, 56.23 W maximum
Power Lp	28.5 W normal, 65.63 W maximum
Dimensions Cf Cr	169 × 203 × 179.5 mm excluding protrusions
Dimensions Lp	192 × 277 × 154 mm excluding protrusions
Mass Cf Cr	4.2 kg
Mass Lp	4.8 kg

PARAMETER	VALUE
Battery Cycles Cf Cr	30 splices plus sleeves with S940 at 5 min intervals
Battery Cycles Lp	60 splices plus sleeves with S942 at 5 min intervals
Frame Read Cycle	45 ms (was 120 ms on S175)
Manufacturer	Fitel Furukawa Electric
Literature	Furukawa Review No. 21 2002 Table 1 S176 specifications
Family	Fitel S176 core aligning splicers
Form Factor	CF/CR cubic or LP low profile splicer
System Role	single fiber core aligned splice

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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Notes
Numeric rows from Furukawa Review No. 21 Table 1 for S176CF/CR/LP (11/13 s, 0.02/0.04/0.01/0.04 dB, 85 to 264 V, sizes and masses, 22.66/56.23 W and 28.5/65.63 W, 90/40 s heaters). Electrode life and full environmental limits are on the S176 series datasheet pages of the same review.

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.