

# FITEL S179 WHEN SECONDS COUNT

FUSION SPLICERS

Splicing in 6 seconds, Heating in 9 seconds

## Hand-Held Core-Alignment Fusion Splicer

### The high-speed and user-friendly Fusion Splicer

The FITEL S179 Core Alignment Fusion Splicer offers powerful performance delivering fast, low-loss and reliable optical fiber splicing even under harsh environmental conditions.

By combining speed, precision, durability, portability and state of the art communication methods all in one unit, this fusion splicing machine is suitable for rapid network deployment and production assembly lines.

Embedded NFC (Near Field Communication), Smartphone control and data management function makes the S179 one of the most advanced and user-friendly fusion splicing machines in the FITEL portfolio.

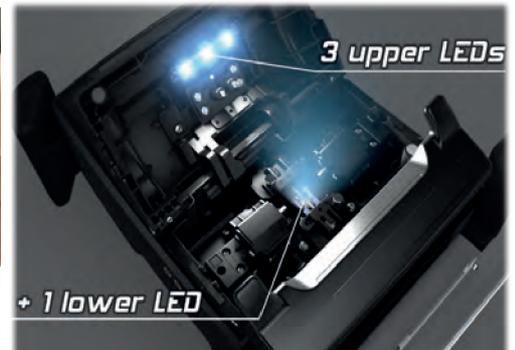


### KEY FEATURES AND BENEFITS

- Exceptional performance for fast and consistent fiber splicing
- Enhanced ease of use and portability
- High-speed splicing and heating<sup>1</sup>
- Ruggedised body design (IP 52, IK07)<sup>2, 3, 4</sup>
- Easy, intuitive splicer operation
- Compatible with Splice-On-Connectors (SOC)
- State of the art communication methods

### APPLICATIONS

- FTTx
- Backbone
- Long-haul
- Fiber lasers
- Optical components
- Enterprise
- Data Centres



<sup>1</sup> High speed splicing (6 seconds on semi-auto mode) and fast heating (9 seconds at power mode)

## PRODUCT SPECIFICATIONS

Applicable Fibers	SM, MM, DSF, NZD, EDF, BIF/UBIF (Bend insensitive fiber)
Cladding Diameter	80~150 µm
Coating Diameter	100~3000 µm
Fiber Cleave Length	5~16 mm
Average Splice Loss	SM: 0.02 dB, MM: 0.01 dB, DSF: 0.04 dB, NZD: 0.04 dB
Splice Time	6 seconds (semi-auto mode) 9 seconds (regular mode)
Heat Time	9 sec (60mm, Tyco SMVOUV1120-1, coating diameter 250-900 µm, Power mode) <sup>5</sup> 13 sec (60mm, FITEL S921, 250 µm, Power mode), 15 sec (60mm, FITEL S921, 900 µm, Power mode)
Splice Programs	Max. 300
Automatic Splicing Selection	Available
Heat Programs	Max. 100
Automatic Heating Start	Available
Applicable Sleeves	20/40/60 mm
Fiber Holder	Tight holder (Loose tube applicable) or Removable Fiber Holder System
Tension Test	1.96 N
Splice Return Loss	60 dB or greater
Attenuation Splice Function	Intentional high splice loss of 0.1 dB to 15 dB (0.1 dB step) can be made for an inline fixed attenuator
Fiber Image Magnification	278X, 556X
Splice Memory	20 000
Image Capture Capacity	Last 100 images to be automatically captured + Up to 100 images to be stored permanently
Dimension	138W × 211D × 114H mm (not including shock absorber) 170W × 238D × 122H mm (including shock absorber)
Weight	1.6kg (without battery) 1.9 kg (with battery)
Monitor	4.3" wide colour LCD monitor with touch screen
Data Output	USB ver.2.0 mini B
Battery Capacity	Typical 200 splice/heat cycles <sup>6</sup> , 120 sec/cycle Typical 230 splice/heat cycles, 90 sec/cycle
Altitude	up to 5,000 m
Wind Protection	up to 15 m/s.
Operating Temperature	-10 to +50°C (without excessive humidity)
Storage Temperature	-40 to +60°C (without excessive humidity)
Humidity	0 to 95% RH (non-condensing)
Power Source	AC Input 100 to 240 V (50/60 Hz), DC Input 11 to 24 V without any change of hardware

<sup>2</sup> IK07 rating Mechanical impact means that the machine protects against 2 joule impact, it is equivalent to 500g force from 40cm. This does not guarantee that the machine will always be undamaged under these conditions

<sup>3</sup> IP X2 rating drip proof means that the machine can be exposed to 3mm/min drips for 10 minutes with 15 degree tilt and still function

<sup>4</sup> IP 5X rating dust proof means that the machine can be exposed to dust particles with a diameter of 0.1 µm to 25 µm and still function.

<sup>5</sup> The heating time may vary depending on the type of sleeve. In addition, the first cycle after turning the power on can be longer than the standard heating time.

<sup>6</sup> The number of splicing and heating cycles the machine can perform with a fully charged battery at 20 Deg C in semi-auto splicing mode and regular heating mode.

The number of cycles may vary depending on the battery status and operating condition.

## STANDARD PACKAGE

Item	P/N	Quantity
FITEL S179 Fusion Splicer	S179A	1
Hard Carrying Case	HCC-05	1
Spare Electrodes (pair)	ELR-01	1
AC Adaptor	S979A	1
Instruction Manual	UMC-02	1
Quick Reference Guide	FTS-B526	1
AC Cable Cord	—	1
Electrode Sharpener	D5111	1
Cleaning Brush	VGC-01	1
Battery Pack	S947A	1
Tool Case	TCC-01	1

## ORDERING INFORMATION

Code	Description
S179-1	S179 splicer with 16 mm Fiber Holders S712T-016
S179-2	S179 splicer with 10 mm Fiber Holders S712T-010
S179-3	S179 splicer with no fiber holders (Fiber Holder System)

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