



## FITEL S179 Fusion Splicer

0901110-S179

### Description

The **FITEL S179** Hand-Held, Core Alignment Fusion Splicer offers powerful performance, delivering fast and reliable optical fiber splicing even under harsh environmental conditions. By combining speed, precision, durability, portability and state-of-the-art communication methods in one unit, this fusion splicing machine opens the door to an entirely new range of applications. The FITEL S179 Fusion Splicer is highly effective for use in data centers, longhaul operations, Metro, LAN, and FTTx fiber, including ultra bend-insensitive fibers as well as large area effective fibers.

Designed with users in mind, the FITEL S179 Fusion Splicer delivers rapid splicing and heating ability with consistent results, splice after splice. A large-capacity battery system helps save time by allowing 200 splicing cycles (splicing/heating) in one charge. While a 4.3-inch wide LCD screen with touch panel offers easy and intuitive operation, a proportionately wide splicing chamber makes optical fiber easy to load. For improved visibility in low-light conditions, 3+1 LED lights illuminate the entire splicing chamber. A detachable, left-side V-groove makes cleaning and maintenance a breeze.

The S179 Fusion Splicer is also designed to meet the rigors of use in the field. While a substantially lower profile and lighter weight enhance portability, this splicer's canopy design and ruggedized body provide resistance to shock, water and dust exposure. A powerful, high propulsion motor (8N) helps ensure stable splicing for the most rigid indoor and drop cables. Internal battery charging, embedded Near Field Communication (NFC) and Smartphone readiness combine with other features to make the S179 one of the most powerful and user-friendly fusion splicing machines available today.

### Features and Benefits:

- Exceptional performance for fast and consistent fiber splicing
- Enhanced ease of use and portability
- High-speed splicing and heating
- Ruggedized body design
- Easy, intuitive operation
- Compatible with Splice-On-Connectors (SOC)
- State-of-the-art communication methods
- Quick and easy maintenance

### New Features:

- Touch Screen: 4.3-inch wide LCD screen
- Illumination lamp: 3 upper + 1 lower LED
- Detachable V-groove: Easy maintenance and lens cleaning
- NFC: Lock and unlock splicer via smartphone (only for Android phone ver. 4.1 or after)
- WiFi Networking: Communication between splicer and smartphone
- High speed: 6 sec of splicing time and 9 sec of heating time

### Standard Package:

- FITEL S179 Fusion Splicer, Hard Carrying Case, Spare Electrodes (pair), AC Adaptor, Instruction Manual Quick Reference Guide, AC Cable Cord, Electrode Sharpener, Cleaning Brush, Battery Pack, Tool Case.

### Specification

<b>Applicable Fibers</b>	SM(ITU-T G.652, G.657A1 i G.657A2), MM(ITU-T G.651), DSF(ITU-T G.653), NZD(ITU-T G.655), BIF/UBUF(ITU-T G.657B3)
<b>Cladding Diameter</b>	80-150µm
<b>Coating Diameter</b>	100-3000µm
<b>Fiber Cleave Length</b>	5-16mm

<b>Average Splice Loss</b>	SM: 0.02 dB, MM: 0.01 dB, DSF: 0.04 dB, NZD: 0.04dB
<b>Splice Time</b>	6 seconds (Semi-auto mode)
<b>Heat Time</b>	9 (60mm, Tyco SMOUV1120-01, coating diameter 250-900µm, Power mode) 13 (60mm, FITELE S921, coating diameter 250µm,Power mode) 15 (60mm, FITELE S921, coating diameter 900µm,Power mode)
<b>Splice Programs</b>	Max. 300
<b>Automatic Splicing Selection</b>	Yes
<b>Heat Programs</b>	Max.100
<b>Automatic Heating Start</b>	Yes
<b>Applicable Sleeves</b>	20/40/60mm
<b>Fiber Holder</b>	Tight Holder (loose tube applicable) or Removable Fiber Holder System
<b>Tension Test</b>	1.96 N
<b>Splice Return Loss</b>	70 dB or more
<b>Attenuation Splice Function</b>	Intentional high splice loss of 0.1dB to 15dB(0.1dB step) can be made for an inline fixed attenuator
<b>Fiber Image Magnification</b>	104X, 278X, 556X
<b>Splice Result Strage</b>	20 000
<b>Image Capture Capacity</b>	Last 100 images to be automatically captured + up to 100 images to be stored permanently
<b>Dimension</b>	139W x 209D x 114H mm (not including shock absorber) 179W x 246D x 131H mm (including shock absorber)
<b>Weight</b>	1.7 kg (without battery), 2.0 kg (with battery)
<b>Monitor</b>	4.3" wide color LCD monitor with touch screen
<b>Propulsion (motor)</b>	8 N (designed value)
<b>Data Output</b>	USB ver. 2.0 mini B x 1 port, Standard A x 1 port
<b>Battery Capacity</b>	Typical 220 splice/heat cycles, 90sec/cycle
<b>Wind Protection</b>	up to 15m/s
<b>Operating temperature [°C ]</b>	-10 °C to +50°C (without excessive humidity)
<b>Storage Temperature [°C ]</b>	-40 °C to +60°C (without excessive humidity)
<b>Power Source</b>	AC Input 100 to 240 V (50/60 Hz), DC Input 11 to 24 V without any change of hardware

#### Prices and availability

<b>Part number</b>	<b>Name</b>	<b>Unit</b>
0901110-S179	FITELE S179 Fusion Splicer	szt.