

FITEL® S179 Fusion Splicer

Product Specifications	
Applicable Fibers	SM (ITU-T G.652, G.657A1 and G.657A2), MM (ITU-T G.651), DSF (ITU-T G.653), Cut-off Shifted Fiber (ITU-T G.654, Large Area type), NZD (ITU-T G.655), BIF/UBIF (Bend Insensitive Fiber ITU-T G.657B3)
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 ⁶	9 (60 mm, Tyco SMOUV1120-01, coating diameter 250-900 µm, Power mode) 13 (60 mm, FITEL S921, coating diameter 250 µm, Power mode) 15 (60 mm, FITEL S921, coating diameter 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	70 dB or more
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	104X, 278X, 556X
Splice Result Storage	20,000
Image Capture Capacity	Last 100 images to be automatically captured + up to 100 images to be stored permanently
Dimension	139 W x 209 D x 114 H mm (not including shock absorber) 179 W x 246 D x 131 H mm (including shock absorber)
Weight	1.7 kg (without battery), 2.0 kg (with battery)
Monitor	4.3-inch wide color LCD monitor with touch screen
Propulsion (motor)	8 N (designed value)
Data Output	USB ver. 2.0 mini B x 1 port, Standard A x 1 port
Battery Capacity ⁷	Typical 200 splice/heat cycles, 90 second/cycle
Altitude	5000 m
Wind Protection	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 (50/60Hz), DC Input 11 to 24 V

⁶ The heating time may vary depending on the type of sleeve. In addition, the first heating time after turning the power on can be longer than the standard heating time.

⁷ The number of splicing and heating cycles the machine can perform with a fully charged battery at 20 °C in semi-auto splicing mode and regular heating mode. The number of cycles may vary depending on the battery status and operating conditions