

SPEEDWOLF

Optical Fiber Fusion Splicer

SP-FS20E



Shenzhen SPEEDWOLF Technology Co., Ltd

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Overview

SPEEDWOLF® SP-FS20E series optical fiber fusion splicer is designed with high-speed image processing technology and special precision-positioning technology. It will automatically finish the whole fiber fusion process in 9 seconds by fast mode, and splice loss is lower than 0.02dB for single mode fiber. 3.5-inch LCD, dual CMOS monitors, X and Y axis separately display or simultaneously display, thus different fusion stages can be showed clearly. It is compatible with ITU-T SM/MM/DS/NZDS/ED fiber, and is equipped with 4-in-1 holders and SOC adapter.

SP-FS20E has small volume, light weight, AC/DC power supply and 150+ splicing and heating circles, so it is particularly suited to telecommunications, radio and television, railway, electric power, military, research institutes for optical fiber communication construction and maintenance. SP-FS20E is perfect for FTTH installation and maintenance.

Product Features

- Compact and convenient: 1.5kg with battery
- Four motors, special precision-positioning technology
- Splice Loss: SMF/BIF: $\leq 0.02\text{dB}(\text{typ.})$; MMF: $\leq 0.01\text{dB}(\text{typ.})$; DSF/NZDSF/EDF: $\leq 0.04\text{dB}(\text{typ.})$
- High precision 4-in-1 holder (250 μm /900 μm /patch cord/FTTx indoor fiber etc), SOC holder
- Unique battery and the host separation design, convenient maintenance and replacement of the battery
- Double V-groove design
- High strength portable straps design is convenient for hanging and operating
- Inner light make the operation environment in the dark
- Wind, sand and dust prevention, waterproof, aseismatic design adapt to the outdoor environment
- Display screen can be flip before and after, can conveniently multi-angle observe
- Auto checks fiber end-face, calibrate position of splicing, calculate splicing loss and temperature and pressure compensation so on
- Between X/Y single screen and X&Y easily switch
- Auto splice, auto arc optimization, auto heating
- $\leq 9\text{s}$ splicing time, $\leq 36\text{s}$ heating time (adjustable)

- 3 hours fast charge
- Ready-package battery with electric quantity indicator, convenient carrying and change
- Built-in counter to warn replace electrode

SP-FS20E Holders

High precision 4-in-1 holder design exquisitely, operate conveniently, can hold 250 μ m, 900 μ m,3mm patch cord and FTTx indoor fiber.



SP-FS20E General Fixed Hole On The Base



Technical Parameters

Model	SP-FS20E
Display	3.5 inch Color LCD, X/Y / X / Y, Auto turn-over
Dimension	125×125×135mm (L×W×H) (without rubber boot)
Weight	1.2kg (without battery) / 1.5kg(with battery)
Fiber Type	SMF(ITU-T G.652), MMF(ITU-T G.651), DSF(ITU-T G.653),
Fiber Material	SiO ₂
Fiber Count	Single
Cladding Diameter	80 - 150μm
Coating Diameter	100 - 1000μm
Fiber Cleave Length	8 - 16mm
Sleeve Length	≤60mm
Splice Mode	Arcing / 60 modes
Splice Loss Evaluation	Yes
Fiber Check	Fiber cleaving angle / axis offset / loss / fiber alignment / focus etc.
Memory Space	5,000 splices /100 screenshots
Tension Test	2N
Electrode Life	5000 arcs
V-groove	White LED
Splice Loss	SMF/BIF ≤0.02dB(typ.)/ MMF≤0.01dB(typ.) / DSF/NZDSF/EDF≤0.02dB

Return Loss	>60dB
Splice Time	≤9 seconds
Boot Time	5 seconds
Heating	Auto heating / 36 seconds (Typical, 0 - 240s adjustable) / 20 modes
Battery	150+ (splice + heating) circles
Imaging System	Dual CMOS cameras, 200x zoom
Power Saving	Auto screen / power off (Adjustable)
Power Supply	4400mAh Lithium Battery
Connectivity	USB
Working Condition	-25°C - 50°C / -30°C - 70°C (Working / Storage), Humidity: 0 - 90%(Non-Condensing) Altitude: 0 - 5000m, Wind Speed ≤15m/s

** Specifications subject to change without notice*

Kit Include

No	Name	Qty
1	SP-FS20E Fusion Splicer	1 set
2	Fiber Cleaver	1 pcs
3	Fiber Stripper	1 pcs
4	AC Adaptor	1 pcs
5	Li Battery	1 pcs
6	Charger	1 pcs
7	Spare Electrodes	1 pair
8	Cooling Tray	1 pcs

9	User Manual CD	1 pcs
10	Carrying Case	1 pcs
11	4-in-1 Fiber holder(one pair)	1 pcs

Option Package

No	Name	Qty
1	Rubber Protection	1 set
2	SCP/SOC Splicing Holder	1 pcs
3	Spare Electrode	1 pcs
4	Electrodes Cleaner	1 pcs
5	Cutting Blades	1 pcs
6	Miller Stripper	1 pcs
7	Thermal Stripper	1 pair
8	Kevlar Scissors	1 pcs
9	Alcohol Pot	1 pcs
10	Car Charger	1 pcs
11	Protection Clamp	1 pcs
12	Nipper (Plastic)	1 pcs
13	Cotton Swab	1 pcs
14	Lamp	1 pcs

Important Notice

Performance figures, data and any illustrative material provided in this data sheet are typical and must be specifically confirmed in writing by SPEEDWOLF before they become applicable to any particular order or contract. In accordance with the

Shenzhen SPEEDWOLF Technology Co., Ltd.

A-14, Haide Building, Nanxin Road Nanshan District, Shenzhen, P.R. China

Email: am-us@speedwolf.net 0086-755-26400198/0086-0755-26400288 Fax: 0086-755-26411001

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Contact SPEEDWOLF

Shenzhen SPEEDWOLF Technology Co., Ltd.

Address: A-14, Haide Building, Nanxin Road Nanshan District Shenzhen, China .

Tel: +86-755-26400198 +86-755-26400288 Fax: +86-755-26411001

Whatsapp: +086-18923447735 skype: speedwolf_8

Email: speedwolf@speedwolf.net,

Web: www.speedwolf.net