Manufacturer:
Fitel

Supplier:
3SAE Technologies, Inc.

Product Name:
Fitel S185LDF Large Diameter Fusion Splicer

Manufacturer Part Number:
S185ROF-00

High-end Fusion Splicer
S185LDF/S185PMLDF
for LDF splicing   for LDF & PM-LDF splicing

S185LDF   S185PMLDF

Fusion Splicers for LDF and PMLDF splicing up to 500µm

Low splice loss

Compact size

High capacity built-in battery (Optional)

LCD touch panel provides easy operation

Fiber clamps land gently to prevent damage to the fiber

Remote control by Wi-Fi communication

The FITEL S185LDF / S185PMLDF High-end Fusion Splicers are designed for splicing up to 500µm cladding fiber with low splice loss.

The powerful and compact design has been optimized for the Fiber laser industry. The new fiber alignment mechanism achieves low splice loss. The new design allows for the fiber clamps to land gently to reduce the possibility of damage to fiber. Battery operation and a compact design make transportation easy for the LDF Fusion splicer.
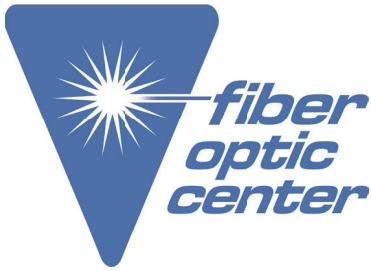
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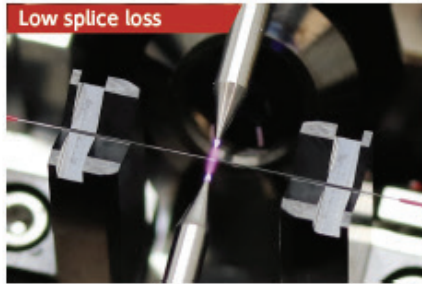
Low splice loss

Precise alignment with resolution of 0.03μm for fiber axis.
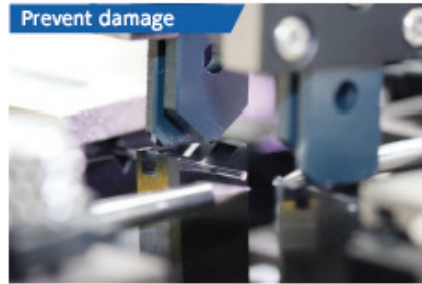
Prevent damage

Fiber clamps land gently to prevent damage to the fiber.

Compact size

S183PMII

S185LDF

Footprint is 46% smaller than previous model.

Built-in battery

Battery operation and a compact design make transportation easy.

Touch panel

Easy and intuitive touch panel operation and GUI.

Prevent damage

Releasing the fiber clamp links allow the fiber clamps to be placed without closing the canopy.

Wi-Fi communication

Remote control is available by Wi-Fi.

Auto-flip display

Automatically adjusts image when LCD display is flipped.

Contact the professionals at Fiber Optic Center for a quote or to get more details.

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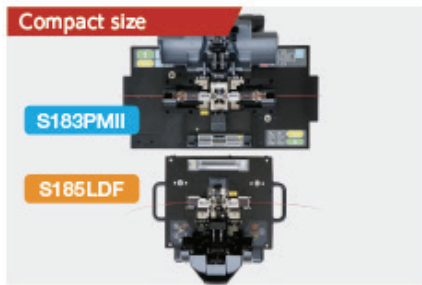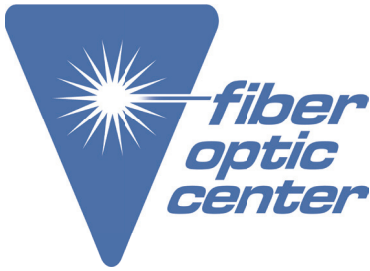3SAE Technologies, Inc.

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S185ROF-00

Specification

Description	S185LDF	S185PMLDF
Applicable fibers*1	SM, MM, DS, NZDS, High-Index, EDF, LDF	SM, MM, DS, NZDS, High-Index, EDF, LDF, PMF
Cladding diameter	80 to 500μm	
Coating diameter	160 to 2000μm (In Fiber holder) 160 to 900μm (Coating clamp splice)	160 to 1300μm (In Fiber holder) 160 to 900μm (Coating clamp splice)
Fiber cleave length	3 to 4mm (Coating clamp splice) 8 to 11mm (Cladding clamp splice)	
Typical splice loss*2	SM(ITU-T G652): 0.014dB	
Typical extinction ratio*2	–	PANDA: 40dB*3 (Angle offset: 0.6degree)
Return loss	>60dB	
Typical splice time*4	15s (SM by cladding clamp splice)	15s (SM by cladding clamp splice) 40s (PANDA by cladding clamp splice)
Tension strength	1.96 (+0% to +20%)	
Applicable protection sleeve length	10 to 60mm	
Typical heat time	35s (S922:40mm sleeve)	
Splice programs	Max.200	
Heater programs	Max.100	
Splice data storage	Max. 1000 including 4 images before and after splice	
Fiber image magnification on LCD	104X, 278X or 556X	
Dimension	210W x 180D x 150H mm	
Weight (without Battery)	4.5kg	4.75kg
Monitor	4.3" wide color LCD with touch panel	
Data output	USB ver. 2.0 type A: 1 port USB ver. 2.0 mini B: 1 port	
Battery capacity (Optional)*5	Typical 60 splice / heat cycles	
Operating temperature	0 to 40°C	
Storage temperature	-40 to 60°C	
Humidity	0 to 90% (Non-condensing)	
Power source	AC input 100 to 240V (50/60Hz)	

*1 Fibers should be applied to ITU-T standard. In case of other fibers, depending on the type of fiber, the optimization of splice program may be needed or the splice result may not be satisfied.
*2 These are references. Depending on the environment and condition, the number vary.
*3 Extinction ratio 40dB is measured in the condition that the initial extinction ratio is more than 50dB and there is the splice with 0.6 degree of rotation offset.
*4 This value is references. Depending on the type of fiber and condition of fiber on splicer, the number can vary.
*5 This value can produce using fully charged brand new battery at room temperature 20 degree C. Depending on the condition of the battery and operation environment, the number can vary.

Standard package

Item	P/N	S185LDF -00	S185LDF -01	S185LDF -10	S185LDF -11	S185PMLDF -00	S185PMLDF -01	S185PMLDF -10	S185PMLDF -11
S185LDF Main body	S185LDF-X-A-0001	1	1	1	1	–	–	–	–
S185PMLDF Main body	S185PMLDF-X-A-0001	–	–	–	–	1	1	1	1
Hard Carrying Case	HCC-12	–	1	–	1	–	1	–	1
Built-in Battery Pack	S947B	–	–	1	1	–	–	1	1
AC Adapter	S981A	1	1	1	1	1	1	1	1
AC Cable Cord	–	1	1	1	1	1	1	1	1
Z Stage Lock	ZL-01	1pair	1pair	1pair	1pair	1pair	1pair	1pair	1pair
Spare Electrode	ELR-03	1pair	1pair	1pair	1pair	1pair	1pair	1pair	1pair
Electrode Sharpener	D5111	1	1	1	1	1	1	1	1
Cleaning Brush	VGC-01	1	1	1	1	1	1	1	1
User Manual	–	1	1	1	1	1	1	1	1

Standard Package (S185LDF)

Hard Carrying Case

Ordering number form

S185 A - B C

Mark	Category	Code	Remark
A	Splicer model	LDF	S185LDF
		PMLDF	S185PMLDF
B	Battery	0	None
		1	Included
C	Hard carrying case	0	None
		1	Included

Contact the professionals at Fiber Optic Center for a quote or to get more details.

focenter.com • 508-992-6464 | (800) 473-4237 • sales@focenter.com
23 Centre Street • New Bedford, MA 02740 USA
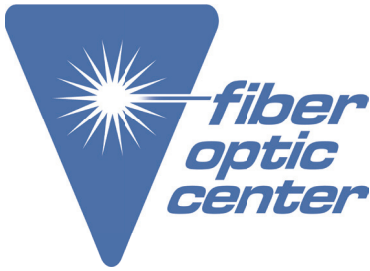
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Optional components

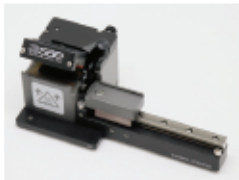| Item	P/N	Quantity
160μm Coating Fiber Holder	S713S-160	1pair
250μm Coating Fiber Holder	S713S-250	1pair
300μm Coating Fiber Holder	S713S-300	1pair
400μm Coating Fiber Holder	S713S-400	1pair
550μm Coating Fiber Holder	S713S-550	1pair
650μm Coating Fiber Holder	S713S-650	1pair
900μm Coating Fiber Holder	S713S-900	1pair
1300μm Coating Fiber Holder	S713S-1300	1pair
550μm Coating BW Fiber Holder	S713B-550	1pair
Customized Fiber Holder*6	S713S-XXX	1pair
Hard Carrying Case	HCC-12	1
Built-in Battery Pack*7	S947B	1
USB Cable	USB-01	1
Wi-Fi Dongle	WFD-01	1

Fiber Holder

*6 Available Suitable size Fiber holder depending on the coating diameter of splicing fiber.
*7 Built-in Battery Pack should be installed by the authorized distributor or the repair center in Furukawa Electric group.

Related tools

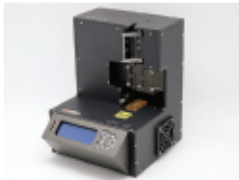| Item	Part Number	Specification
Stripper	S218R-Plus	Cladding diameter 125μm only
	3SAE Thermal Stripper	Cladding diameter 80 to 1000μm
Cleaver	S326A	Cladding diameter 125μm only
	NorthLab ProCleave LD	Cladding diameter 125 to 550μm
	3SAE LCCII	Cladding diameter 125 to 1000μm
Cleaner	3SAE Ultrasonic Cleaner	–
Protection sleeve	S921/S922	Coating diameter 900μm or less
	S928A-20/25/35	Coating diameter 400μm or less
Fiber end face interferometer & microscope	NorthLab Proview	Cladding diameter 125 to 720μm

S218R-Plus

3SAE Thermal Stripper

S326A

NorthLab ProCleave

3SAE LCCII

3SAE Ultrasonic Cleaner

Protection sleeve

NorthLab Proview