

S185LDF/S185PMLDF

Fusion Splicers for LDF and PMLDF splicing up to 500m



S185LDF



S185PMLDF

Features and Benefits

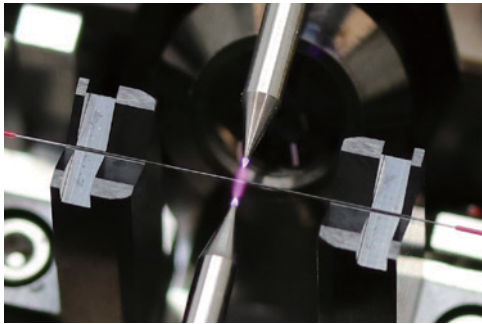
- Low splice loss
- Clamp Soft-Landing
- Compact size
- Portability by built-in battery (Optional)
- Easy operation by LCD screen with touch panel
- Fiber clamp can be detached from canopy
- Remote control by Wi-Fi communication

Product Description

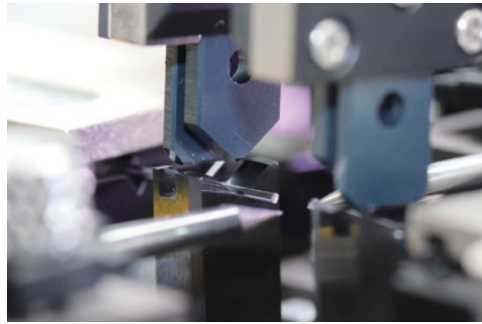
The FITEL S185LDF / S185PMLDF High-end Fusion Splicers are designed for splicing up to 500 μ m cladding fiber or 500m PM fiber with low splice loss. The powerful and compact design has been optimized for the Fiber laser industry. The new fiber alignment mechanism achieves low splice loss. The new design also allows the fiber clamps to close gently to reduce the possibility of damage to the fiber. Battery operation and a compact design make transporting the LDF Fusion Splicer easy.

FITEL[®]

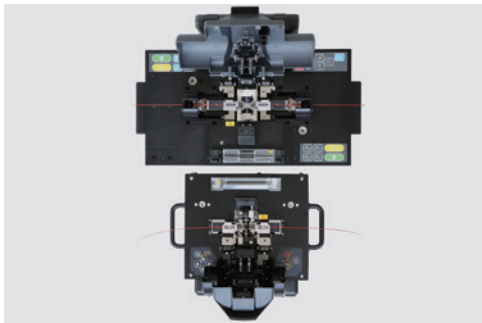
FUSION SPLICERS



Precise alignment with resolution of 0.03m for the fiber axis.



Fiber clamps close gently to prevent damage to the fiber.



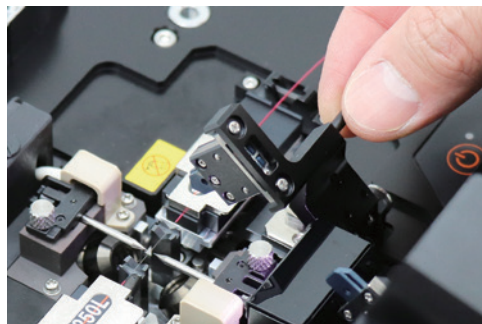
Footprint is 46% smaller than previous models.



Battery operation and a compact design make transportation easy.



Easy and intuitive touch panel operation and GUI.



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



Automatically adjusts image when LCD display is flipped.



Remote control is available by Wi-Fi.

FITEL® S185LDF/S185PMLDF Fusion Splicers

Specification

Description	S185LDF		S185PMLDF	
	Applicable fibers*1	SM, MM, DS, NZDS, High-Index, EDF, LDF		SM, MM, DS, NZDS, High-Index, EDF, PMF
Cladding diameter	125 to 500 μm			
Coating diameter	160 to 2000 μm (In Fiber holder) 160 to 900 μm (Coating clamp splice)		160 to 1300 μm (In Fiber holder) 160 to 900 μm (Coating clamp splice)	
Fiber cleave length	3 to 5 mm (Coating clamp splice) 8 to 11 mm (Cladding clamp splice)			
Typical splice loss*2	SM(ITU-T G652): 0.014 dB			
Typical extinction ratio*2	-		-36.8dB*3 (Angle offset: 0.6 degree)	
Return loss	>60 dB			
Typical splice time*4	15s (SM by cladding clamp splice)		15s (SM by cladding clamp splice) 40s (cladding clamp splice)	
Tension strength	1.96 (+0% to +20%)			
Applicable protection sleeve length	10 to 60 mm			
Typical heat time	35s (S922:40 mm 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 140H mm			
Weight (without Battery)	4.5 kg		4.75 kg	
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 satisfactory.

*2 These are references. Depending on the environment and conditions, the numbers may vary.

*3 Extinction ratio -36.8dB is measured under the conditions where that the initial extinction ratio is -40dB and the splice has 0.6 degree of rotation offset.

*4 This value is a reference. Depending on the type of fiber and the condition of the fiber on the splicer, the numbers may vary.

*5 This value can be produced using a fully-charged, brand new battery at room temperature of 20 degrees C. Depending on the condition of the battery and operating environment, the numbers may vary.

Standard Package

Item	P/N	Quantity							
		S185LDF				S185PMLDF			
		-00	-01	-10	-11	-00	-01	-10	-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	1 pair	1 pair	1 pair	1 pair	1 pair	1 pair	1 pair	1 pair
Spare Electrode	ELR-03	1 pair	1 pair	1 pair	1 pair	1 pair	1 pair	1 pair	1 pair
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)

For additional information please contact your sales representative.

You can also visit our website at www.ofsoptics.com or call **1-888-fiberhelp** (1-888-342-3743) USA or **1-770-798-5555** outside the USA.

Fusion Splicer Customer Service, Training and Service Center
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Phone: 678-783-1090
Fax: 678-783-1093
Email: splicers@ofsoptics.com

OFS Corporate Headquarters
2000 Northeast Expressway
Norcross, Georgia 30071, USA
Toll Free: 888-Fiber-Help
Intl. Phone: 770-798-5555

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



Hard Carrying Case

Optical Components

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



Fiber Holder

*6 Availability of a suitable size Fiber holder depends on the coating diameter of the splicing fiber.

Related Tools

Item	Part Number	Specification
Stripper	S218R-Plus	Cladding diameter 125 μm only
	3SAE Thermal Stripper	Cladding diameter 30 to 1000 μm
Cleaver	S326A	Cladding diameter 125 μm only
	NorthLab ProCleave LD	Cladding diameter 125 to 550 μm only
Cleaner	3SAE LCCII	Cladding diameter 125 to 1000 μm only
	3SAE Ultrasonic Cleaner	-
Protection Sleeve	S921/S922	Coating diameter 900 μm or less
	S928A-20/25/35	Coating diameter 400 μm or less



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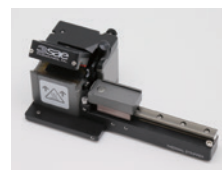
OFS Marketing Communications
Doc ID: FITEL-NJ001 S185LDF/S185P-MLDF
Date: 02/19

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S218R-Plus



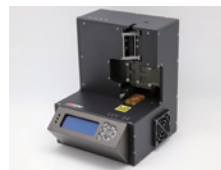
3SAE Thermal Stripper



S326A



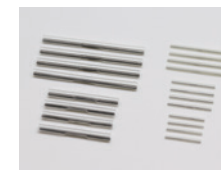
NorthLab ProCleave



3SAE LCCII



3SAE Ultrasonic Cleaner



Protection Sleeve

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