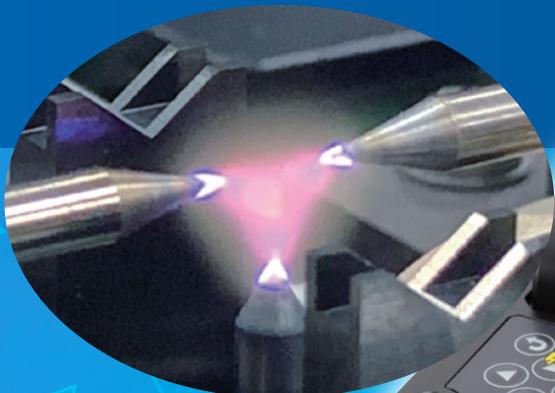


High-end Fusion Splicer

S185ROF/S185PMROF

Fusion Splicers for LDF and PM-LDF splicing up to 800 μ m

FITEL High-end Fusion Splicer S185 series featuring ROF (Ring of Fire) models, S185ROF and S185PMROF.

Though the main body is same compact as S185 series, ROF models equip the powerful arc-discharging by three electrodes instead of two electrodes.

This arc-discharging makes the plasma field (high temperature field) wider and enables splicing large diameter fibers up to 800 μ m cladding diameter.

This unique arc-discharging can heat fibers uniformly and reduce the splice loss of the fibers with dissimilar cladding diameters.

■ Specification

Description	S185ROF	S185PMROF
Heat source for splicing	ROF (Ring of Fire, Three electrodes Arc-discharging)	
Applicable fibers* ¹	SM, MM, DS, NZDS, High-Index, EDF, LDF	SM, MM, DS, NZDS, High-Index, EDF, LDF, PMF
Cladding diameter		125 to 800 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	6 mm* ² (Coating clamp splice)	8 to 11 mm (Cladding clamp splice)
Typical splice loss* ³		SM (ITU-T G652): 0.014 dB
Typical extinction ratio* ³	-	PANDA: 40 dB* ⁴ (Angle offset: 0.6 degree)
Return loss		>60 dB
Typical splice time* ⁵	15 s (SM by cladding clamp splice)	15 s (SM by cladding clamp splice) 50 s (PANDA by cladding clamp splice)
Tension strength		1.96 N (+0% to +20%)
Applicable protection sleeve length		10 to 60 mm
Typical heat time		35 s (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		104 X, 278 X or 556 X
Dimension		210 W x 180 D x 150 H mm
Weight (without Battery)	4.55 kg	4.8 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
Operating temperature		0 to 40°C
Storage temperature		-40 to 60°C
Humidity		0 to 90% (Non-condensing)
Power source		AC input 100 to 240 V (50/60 Hz)

*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 Due to the high temperature of ROF, it may not be possible depending on the diameter, thickness and material of the coating.

*3 These are references. Depending on the environment and condition, the number vary.

*4 Extinction ratio 40 dB is measured in the condition that the initial extinction ratio is more than 50 dB and there is the splice with 0.6 degree of rotation offset.

*5 This value is references. Depending on the type of fiber and condition of fiber on splicer, the number can vary.

■ Standard package

Item	P/N	Quantity			
		S185ROF		S185PMROF	
		-00	-01	-00	-01
S185ROF Main body	S185ROF-X-A-0001	1	1	—	—
S185PMROF Main body	S185PMROF-X-A-0001	—	—	1	1
Hard Carrying Case	HCC-12	—	1	—	1
AC Adapter	MSD-150AAS24B	1	1	1	1
AC Cable Cord	—	1	1	1	1
Z Stage Lock	ZL-01	1 pair	1 pair	1 pair	1 pair
Spare Electrode	ELR-04	1 set	1 set	1 set	1 set
Change Tool for Vertical Electrode	S185-O-CT-0504	1	1	1	1
Electrode Sharpener	D5111	1	1	1	1
Cleaning Brush	VGC-01	1	1	1	1
User Manual	—	1	1	1	1



Standard Package (S185ROF)

■ Ordering number form

S185 [A] - 0 [B]

Mark	Category	Code	Remark
A	Splicer model	ROF	S185ROF
		PMROF	S185PMROF
B	Hard carrying case	0	None
		1	Included



Hard Carrying Case

■ Optional components

Item	P/N	Quantity
160 µm Coating Fiber Holder	S713S-160	1 pair
250 µm Coating Fiber Holder	S713S-250	1 pair
300 µm Coating Fiber Holder	S713S-300	1 pair
400 µm Coating Fiber Holder	S713S-400	1 pair
550 µm Coating Fiber Holder	S713S-550	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
550 µm Coating BW Fiber Holder	S713B-550	1 pair
Customized Fiber Holder* ⁶	S713X-XXX	1 pair
USB Cable	USB-01	1
Wi-Fi Dongle	WFD-01	1

*6 Available Suitable size Fiber holder depending on the coating diameter of splicing fiber.



Fiber Holder

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