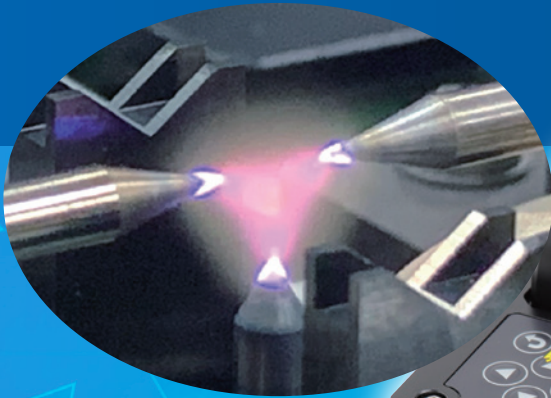


High-end Fusion Splicer
S185ROF/S185PMROF
Fusion Splicers for LDF and PM-LDF splicing up to 800 μ m



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



Fiber Holder

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

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