



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



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 800µm cladding diameter.

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

FURUKAWA ELECTRIC

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, PV		
Cladding diameter	125 to 800µm			
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	6mm*2 (Coating clamp splice) 8 to 11mm (Cladding clamp splice)			
Typical splice loss*3	SM(ITU-T G652): 0.014dB			
Typical extinction ratio*3	-	PANDA: 40dB*4 (Angle offset: 0.6degree)		
Return loss	>60dB			
Typical splice time*5	15s (SM by cladding clamp splice)	15s (SM by cladding clamp splice) 50s (PANDA by cladding clamp splice)		
Tension strength	1.96 (+0% to +20%)			
Applicable protection sleeve length	10 to	10 to 60mm		
Typical heat time	35s (S922:40mm sleeve)			
Splice programs	Max.200			
Heater programs	Max	Max.100		
Splice data storage	Max. 1000 including 4 ima	ages before and after splice		
Fiber image magnification on LCD	104X, 278	3X or 556X		
Dimension	210W x 180	D x 150H mm		
Weight (without Battery)	4.55kg	4.8kg		
Monitor	4.3" wide color LC	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	-40 to 60°C		
Humidity	0 to 90% (No	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 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 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. *5 This value is references. Depending on the type of fiber and condition of fiber on splicer, the number can vary.

Standard package

	P/N	Quantity			
Item		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	1pair	1pair	1pair	1pair
Spare Electrode	ELR-04	1set	1set	1set	1set
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

Ordering number form

	Mark	Category	Code	Remark	
S185 A -0 B	А	Splicer model	ROF	S185ROF	
			PMROF	S185PMROF	
	В	Hard carrying case	0	None	
			1	Included	

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*5	S713X-XXX	1pair
USB Cable	USB-01	1
Wi-Fi Donale	WFD-01	1

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



Fiber Holder



Standard Package (S185ROF)



Hard Carrying Case

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