

S185ROF/S185PMROF

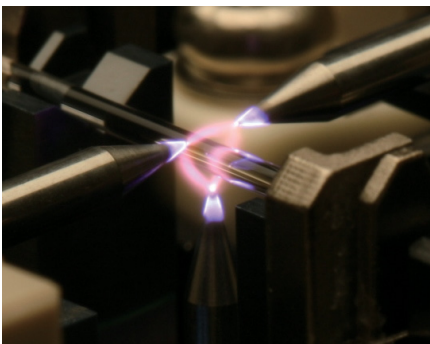
High-End Fusion Splicers for LDF and PM-LDF Splicing up to 800 μm



S185ROF

Features and Benefits

- Fusion Splicer for large fibers up to 800 μm cladding
- Powerful 3 electrode arc-discharge provides uniform heat distribution
- Low splice loss
- 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 S185ROF/ S185PMROF High-end Fusion Splicers are designed for splicing up to 800 μm optical fibers. Though the main body is compact, the ROF (Ring of Fire) models are equipped with a powerful arc-discharge that utilizes three electrodes instead of two. This arc-discharging makes the plasma field (high temperature field) wider and enables splicing large diameter fibers up to 800 μm 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 - 11 mm (Cladding clamp splice) | |
| Typical splice loss*2 | SM (ITU-T G652): 0.014 dB | |
| Typical extinction ratio*2 | - | PANDA: 40 dB*4 (Angle offset: 0.6 degree) |
| Return loss | >60dB | |
| Typical splice time*4 | 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 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 150H 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 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

| 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 pair | 1 pair | 1 pair | 1 pair |
| 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 |

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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Ordering Number Form

S185 A - 0 B

| Mark | Category | Code | Remark |
|------|---------------|-------|-----------|
| A | Splicer Model | ROF | S185ROF |
| | | PMROF | S185PMROF |
| B | Battery | 0 | None |
| | | 1 | Included |



Hard Carrying Case

Optical Components

| Item | P/N | Qty |
|---------------------------------------|------------|--------|
| 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* ⁵ | S713X-XXX | 1 pair |
| USB Cable | USB-01 | 1 |
| Wi-Fi Dongle | WFD-01 | 1 |



Fiber Holder

*⁵ Availability of a suitable size Fiber holder depends on the coating diameter of the fiber being spliced.



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