FITEL®
FUSION SPLICERS

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S183PMII - A New Standard in the Field for High-End Fusion Splicing Applications

NEW

RoHS

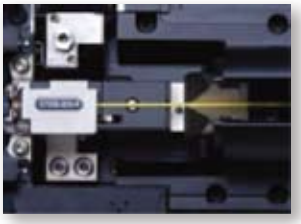
The S183PMII Advanced Fusion Splicer was designed specifically for the demanding production and research applications of the optical components industry, being capable of:

- Splicing specialty and exotic fiber combinations
- Very large diameter fiber splicing (up to 500 µm)
- Polarization maintaining fiber splicing
- High-strength splicing application.

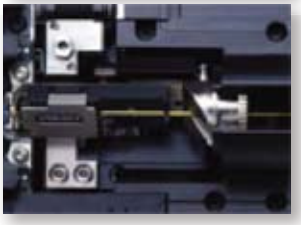
Features and Applications

Specialty Splicing Made Easy – The advanced features of the S183PMII allow you to splice today's and tomorrow's most exotic fiber types. Whether performing high-strength splices, splicing small cladding fibers (80µm), large cladding fibers (500µm), high Δ splicing combinations, PM fibers, or erbium doped fiber, the S183PMII is the splicer for your high-end application.

Fast Splice Time – The splice time is lightning fast at 35 seconds for PANDA and 15 seconds for SM. The S183PMII is the fastest in the industry for most fiber applications, allowing you to increase effciency on your production line.



Safe PM Fiber Rotation – The new rotation mechanism on the S183PMII allows PM fiber to rotate while keeping straight and stable. This minimizes fiber twist, which can be detrimental to sensitive splicing applications.



Quick Loading & Automatic Machine Adjustment – The S183PMII automatically adjusts for different fiber coating and cladding sizes. There is no need to exchange electrodes, v-grooves, or fiber clamps. In addition, the S183PMII has been designed so that the user simply loads the fiber and closes the lid to begin the fusion process. There is no need to lower or set fiber clamps before beginning your splice.

Automatic Fiber Holder Release – The S183PMII automatically performs a tensile proof test on the fiber and releases the holder lid to avoid twisting the fiber after the splice. This automation eliminates the need for the user to manually open and reset the splicer after each fusion splice.

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SPECIFICATIONS

Applicable Fibers	SMF, MMF, DSF, NZDSF, CSF, DCF, EDF, PMF, LDF
Fibers Cleave Length	3 to 5mm with coating clamping / 9 to 11mm with bare Fiber clamping
Cladding Diameter	80~500μm
Coating Diameter	160~2000μm
Typical Insertion Loss (Similar Fiber Splicing)	0.02dB for identical SMF / 0.01dB for identical MMF 0.04dB for identical DSF / 0.05dB for identical PM Fibers
Typical Insertion Loss (Dissimilar Fiber Splicing)	0.05dB for SMF to PANDA Fiber / 0.10dB for SMF to TIGER Fiber 0.15dB for SMF to BOW-TIE Fiber / 0.10dB for PANDA Fiber to TIGER Fiber
Typical Extinction Ratio (Cross Talk) (Similar Fiber Splicing)	-40dB (0.6 degree) for identical PANDA Fibers -32dB (1.4 degree) for identical TIGER Fibers -32dB (1.4 degree) for identical BOW-TIE Fibers
Typical Extinction Ratio (Cross Talk) (Dissimilar Fiber Splicing)	-32dB (1.4 degree) for PANDA Fiber to TIGER Fiber -30dB (1.8 degree) for PANDA Fiber to BOW-TIE Fiber
Loss Estimation Parameters	Cleave angle, Fiber Offset, Tilt, Micro-bending, Fiber end gap, Bubbling at splice point
Dimensions / Weight	350W × 197D × 154H mm / 8.5kg
Splice Time	15 seconds for identical Single-Mode Fibers 35 seconds for identical PM Fibers (cladding clamping) 55 seconds for identical PM Fibers (coating clamping)

Heating Time	51 seconds for 60mm sleeves 40 seconds for 40mm sleeves	**Tensile Strength**	Typical 300kpsi (25N) with High strength splice
Return Loss	>60dB	**Splice Programs**	60 Default / 150 Available
Data Interface	USB ver1.1 and Ethernet	**Splice Memory**	Maximim 2000 splices
Magnification	215X & 430X	**Operating Temperature**	0 to +40°F (without excessive humidity)
Monitor	6" 5-color LCD monitor	**Storage Temperature**	-40 to +60°F (without excessive humidity)
Video Output	Analog RGB	**Power Source**	AC 100 to 240V (50 / 60Hz)with AC adaptor

STANDARD PACKAGE

P/N	Description	Quantity
S183-P2-A-0001	S183PM Main Body	1
S710S-250	250μm Coating Fiber Holders	1 pair
S710S-400	400μm Coating Fiber Holders	1 pair
S710S-900	900μm Coating Fiber Holders	1 pair
S974A	AC Adaptor	1
S960	Spare Electrode	1 pair
	Electrode Sharpener	1
	User's Manual	1

OPTIONAL ACCESSORIES

P/N	Description	Quantity
S710S-080	160μm Coating Fiber Holders	1 pair
S968	Electrodes for Large diameter fiber	1 pair
S710S-LDF	Fiber holders for Large diameter fiber	1 pair
S183-X2-A-0002	Fiber Transporter	1

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