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S182A/K High Strength Fusion Splicer

The S182A/K Fusion Splicer is ideal for high-strength and specialty fiber applications. While both units are capable of high-strength splices up to 300kpsi, the S182A is for attenuation while the S182K is for splicing dissimilar specialty fibers

Key Features:



- The keypad and monitor are mounted in the rear, giving the user easy access to the splice chamber and protection sleeve oven.
- The overall shape of the splicer is rectangular with a flat top for easy incorporation into the work table.
- When used with the correct high-strength accessories, the S182A/K prevents bare fiber from touching the v-grooves to yield high tensile strength results.
- Remote control software is available for hands-free operation from a PC.

Specifications

Splicing Method:	Profile Alignment System (PAS), core alignment
Applicable Fibers:	For S182A: SM, MM, DS, EDF (similar fiber pairs) For S182K: SM, MM, DS, EDF (dissimilar fiber pairs)
Average Loss:	SM: 0.03dB, MM: 0.02dB, DS: 0.05dB
Splice Time:	20s (typical for SM; splice time varies depending on fiber type)
Coating Diameter/ Cleave Length:	250/400um coating = 3-5mm cleave length (for high strength) 900um coating = 16mm or 11mm cleave lengths (not high strength)
Attenuation:	Up to 20dB for the **S182A only**
Splice Programs:	26 pre-programmed, 6 customizable slots (custom programs available on request)
Tensile Strength:	Average of 300kpsi in a Fitel laboratory
Splice Memory:	400 splices
Protection:	90s
Heater Programs:	4 pre-programmed (for 20, 25, 40, 60mm sleeves) 4 customizable slots
Dimension/Weight:	180W x 260D x 160H (mm) / 7.5kg
Monitor:	5” color, 264X magnification
Tension Test:	200g

S182A/K High Strength Fusion Splicer

Video:	PIN plug
Data:	RS232C (D-sub 9 pins male)
Sensor:	Air pressure, temperature, humidity
V-Groove Illumination:	Yes, LED
Power Supply:	AC100-120, 200-240V DC
Operating Environment:	-10º to 50ºC (14º to 122ºF)
Storage Environment:	-40º to 60ºC (-40º to 140ºF)
Languages:	9: GB, D, F, I, E, CZ, NL, DK, RUS, P, S, FIN, JP, China, Korea
Main Screen Display:	Operating message, arc counter, time, heater status, estimated loss,(simultaneous) X- and Y-views.
Inspection:	Cleave angle, fiber end gap, core eccentricity, offset, tilt, micro-bending, splice errors (bubbling, thickening, streaking)

Standard Package

Description	Model Number	Quantity
Main body:	S182A-01	1
Main body	S182K-01	1
Top Cover	S182X-02	1
AC Power Cord	S182X-03	1
Spare Electrodes for S182A	S182A-04	1 pair
Spare Electrodes for S182K	S182K-04	1 pair
Spare Fuse	S182X-05	1
Left V-Groove for 250/400um fibers	S182X-06	1
Right V-Groove for250um fibers	S182X-07	1
Right V-Groove for 400um fibers	S182X-08	1
Operation Manual		1

Optional Parts Accessories

Description	Model Number	Quantity
High Strength Cleaver for the S182 with special attachment for high-strength fiber holder	S323F	1
Ultrasonic High Precision Cleaver for use with S182 A/K fusion splicers.	S391	1
High Strength Hot Stripper for the S182 with special attachment for the high-strength fiber holder	S218F	1
Automated Thermal Stripper with adjustable strip length. PLEASE REQUEST appropriate accessories for use with S705S series fiber holders and S182A/K fusion splicer.	S291	1
S182 High Strength Fiber Holders (pair) for 250um or 400um fibers.	S705S-025	1 pair
Ultrasonic Cleaning Kit (cleaner, beaker, fiber holder adapter.	S182X-20	1 set
Left V-groove for normal strength application for 900um fibers with 16mm cleave length.	S182X-A03	1
Right V-groove for normal strength application for 900um fibers with 16mm cleave length.	S182X-A04	1
Fitel Normal Strength Thermal Stripper for 900um fiber (also applicable for 250um and 400um fiber) for 16mm cleave lengths.	S218F-900-16	1
Fiber Holders (pair) for S182 for 900um fibers	S705S-090	1 pair
Left V-groove for normal strength application for 900um, 400um, and 250um fibers with 11mm cleave length.	S182X-A05	1
Right V-groove for normal strength application for 900um, 400um, and 250um fibers with 11mm cleave length.	S182X-A06	1
Fitel Normal Strength Thermal Stripper for 900um fiber (also applicable for 250um and 400um fiber) for 11mm cleave lengths.	S218F-900-11	1
Fiber Recoater: automatic resin injection, curing, and tensile test (Standard Package - main body, AC power cord, vacuum syringe, spare fuse, resin)	S541A	1
Single Fiber: 20mm Mini Heat Shrink sleeves (25 pieces/pack)	S925F-20mm	1 pack
Single Fiber: 25mm Mini Heat Shrink sleeves (25 pieces/pack)	S926F-25mm	1 pack
Single Fiber: 60mm Protection Sleeve (50 pieces/pack)	S921F-60mm	1 pack
Single Fiber: 40 mm Protection Sleeve (50 pieces/pack)	S922F-40mm	1 pack
Remote Control Program for the S182 Series Fusion Splicer	RCP	1 disc

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