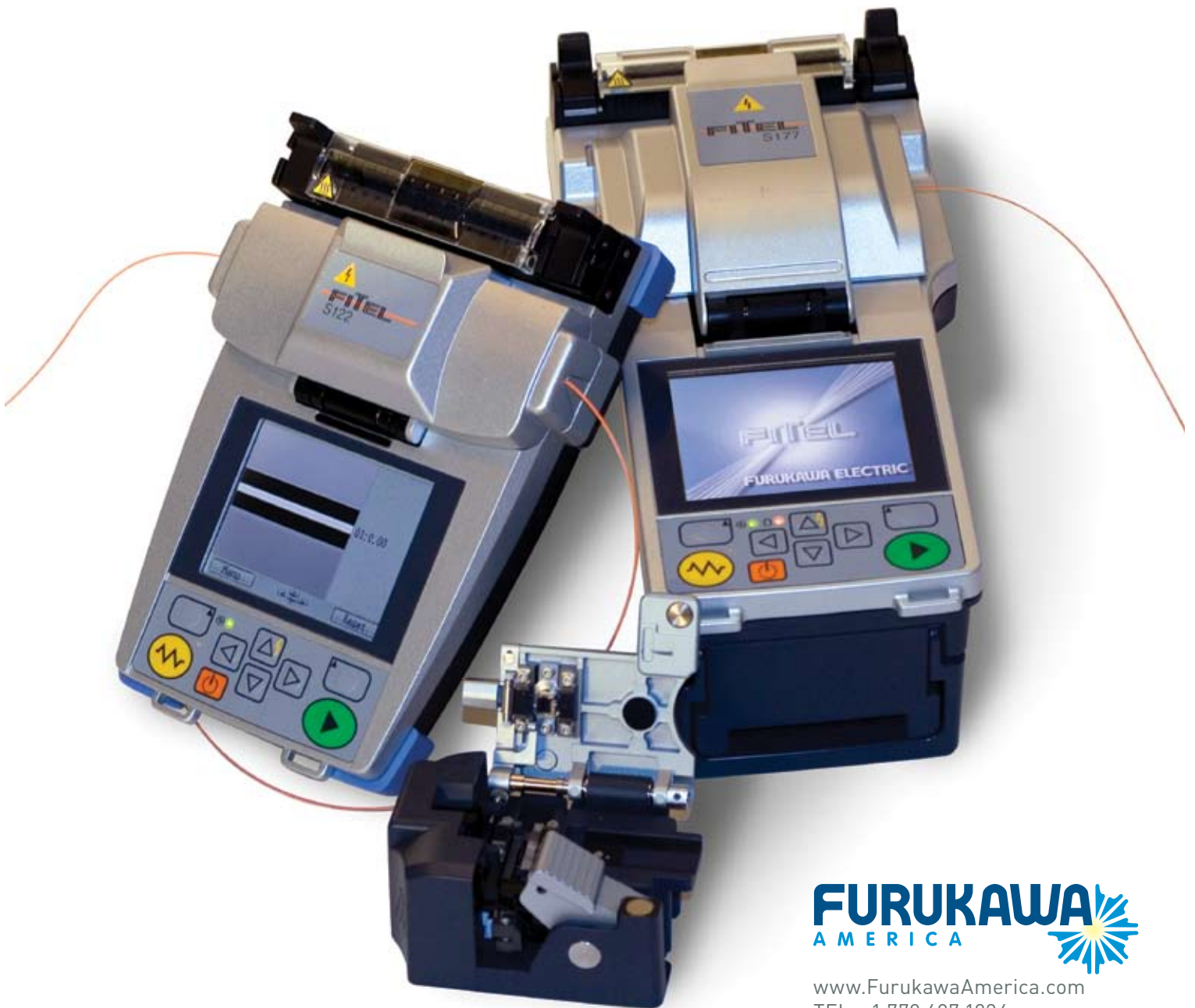


FITEL[®]

TAKING SPLICERS TO THE NEXT LEVEL

2006, VOLUME 4



FURUKAWA
AMERICA 

www.FurukawaAmerica.com
TEL: +1 770 487 1234

FITEL®

FUSION SPLICERS FOR OPTICAL FIBER

Optical fiber plays a critical role in today's communication networks – from telecommunications to CATV to data. Furukawa is a major manufacturer and provider of high quality optical fiber and fiber optic products. This includes a complete line of fusion splicers that produce highly accurate, reliable splices with minimal loss. Furukawa's fusion splicers are, designed using state-of-the-art technology, decades of manufacturing experience and feedback from countless customer installations. You'll find that FITEL splicers are simple yet precise and reliable tools that can support your full range of fiber manufacturing, R&D, installation, and maintenance applications.



S122A/M
...page 3-4

With its super low profile and new user interface, the Fitel S122 series fusion splicer offers next generation workability for every splicing field. Combining the portability, power flexibility and field ruggedness of FITEL's previous generation of hand-held splicers with the proven quality and performance of our ribbon splicers, the S122 delivers fast and consistent splicing with outstanding mobility and extreme ease-of-use.



S177A
...page 5-6

The new hand-held FITEL S177A incorporates an improved heating design that cuts splice-to-heat time by 40 percent, achieving a 9-second splice time and 37-second heat time. The unit's T-shaped body design is also 40 percent lighter, weighing only 4.85 pounds including battery. Ideal for fast field use, the S177A reduces the fiber length required for splicing by 30 percent. In addition, fiber magnification power is 608X, marking the industry's most powerful rating for a core alignment splicer.

OPTICAL FIBER SPLICING PROCESS

STRIPPING

12 - 13

Using a fiber stripper to remove the coating material from the fiber

CLEANING

24

Using alcohol and a specially designed wiper to clean the bare fiber.

CLEAVING

16

Using a precise cleaver to cut the fiber.

SPLICING

3 - 10

Using a fusion splicer to align fibers & discharge the arc to connect the fibers. In addition, the unit will inspect the quality of the splice after the process.

PROTECTION

23

Using a heat-shrinking sleeve to protect spliced fiber.



S183PM

...page 7-8

The S183 Full Function Fusion Splicer series provides you the ultimate splicing solution. Designed primarily to address production and research splicing needs in the optical components industry, this is the most advanced series in FITEL's extensive line of high performance machines. The S183PM offers a total solution for precision polarization maintaining fiber splicing. Both models offer high strength splicing, specialty fiber splicing and attenuation splicing - all essential processes in manufacturing the latest optoelectronic devices.



S199M12

...page 9-10

The S199M12 is designed for ribbon fiber splicing which can handle up to 12-fiber ribbon. The series offers wide range applications in fiber installation from long-haul to FTTH networks. It has two CCD cameras, which can observe fiber from two directions during splicing. It is a Fixed V-Groove type splicer and can handle many fiber types including NZDS and DS fibers.

Optical Fiber Stripper

- S210 Mechanical Stripper 12
- S211B Fiber Stripper 12
- S218R Thermal Stripper 13

Splicer Scissors

- SS-01 Splicer Scissors 12

Cleaning

- FPF-03H Fiber Preparation Fluid 24
- FW-01 Fiber Wipes 24

Optical Fiber Cleaver

- S325A One-Action Precision Cleaver 16
- S315 Field Cleaver 16

Optical Fiber Reinforcement Sleeves

- S921, S922 Single Fiber Sleeves 23
- S924/927A Ribbon Sleeves 23
- S925, S926 Mini Sleeves 23

Other Tools for Optical Fiber Connections

- S220A Ribbon Separator 14
- S233 Ribbon Splitter 14
- S422, S423, S424 11
- S532A Protection Sleeve Heater 17
- S533A Curl Remover 17
- S541A Recoater 18
- S612 Ribbonizer 18
- S911-S916 Single Temporary Fiber Aligner .. 19
- S918A Ribbon Fiber Temporary Fiber Aligner . 19
- CS201/2 Cable Sheath Strippers 15
- SmartFuse 20
- ID-H Fiber Identifier 21
- ID-L Light Source 22

Technical Materials

- Types & Functions of Fusion Splicers 25

Technical Support

- Optical Fiber Training Classes 26
- Service & Maintenance 26

OPTICAL FIBER FUSION SPLICER

S122 Series Hand-Held Fusion Splicer



DESCRIPTION

With its super low profile and new user interface, the Fitel S122 series fusion splicer offers next generation workability for every splicing field, FTTX, LAN, backbone, or long-haul installations. Combining the portability, power flexibility and field ruggedness of FITEL's previous generation of hand-held splicers with the proven quality and performance of our ribbon splicers, the S122 delivers fast and consistent splicing with outstanding mobility and extreme ease-of-use.

FEATURES

SUPERB MOBILITY AND WORKABILITY

Super low profile design, with only 1.85" height at the keypad, the S122 provides a stable working environment both on the work bench and palmtop. Attaching the S122 to the Work Table (optional) enables hands-free operation, as well as easy access to various work fields by folding the splicer upward.

RUGGED BODY

The top body and windshield are made of magnesium die-cast. The bottom body is protected with rubber corner pads. With its simple and flat shape, the S122 can survive during harsh conditions.

NEW GUI & LCD SCREEN

Featuring a new GUI (graphical user interface) and transreflective LCD screen technology, the S122 operation is a snap! Function keys are simple and information displays are crisp and clear even in direct sunlight.

MULTI-WINDOW FIBER DISPLAY

The LCD display shows the splicing process with simultaneous X and Y camera views, as well as status icons monitoring the machine conditions.

FAST AND ACCURATE

The fast 13-second splice time and 37-second heat time creates a highly efficient work environment. The S122 observes the fiber from 2 directions just as all high-end splicers, promising high quality splice from trunk to FTTX.

ENHANCED EASE OF USE

Memory for fiber image, counters for cleaver and stripper blade replacement and visual maintenance instructions are provided for your ease of use.



SPECIFICATIONS

ITEM	DESCRIPTION
Fiber Types	SMF, MMF, DSF, NZDSF
Cladding Diameter	125µm
Coating Diameter	250µm to 900µm for single fiber 300µm to 400µm for ribbon (thickness) [S122M4 only]
Average Splice Loss	SMF: 0.05dB, MMF: 0.03dB DSF: 0.08dB, NZDSF: 0.08dB
Splice Time	13 sec. (S122A), 15 sec. (S122M4)
Heat Time	Single Fiber: 37 sec. (40mm), 51 sec. (60mm) Ribbon Fiber: 45 sec. (40mm)
Tension Test	1.96N
Applicable Sleeve Length	40/60mm
Program Memory	Splice Programs: Max. 150 Heat Programs: Max. 12
Splice Memory	Max. 1,500
Fiber Image Display	Simultaneous two-axis display Magnification 120X (S122A), 40X (S122M4)
Dimensions	140W x 189L x 73H mm
Weight	800g/1.8lb. (body), 170g/0.4lb. (battery)
AC Input	100 to 240VAC
DC Input	S943 Li-ion battery (11.1V, 2300mAh)
Battery Capacity	90 splices or 50 splices with heat shrink protection
Operating Temp.	-10Co to +50Co
Storage Temp.	-40Co to +60Co

LINEUP

MODEL	APPLICATION
S122A	Splicing for single fiber using Fiber Holder System
S122M4	Splicing for single fiber to 4-fiber ribbon using Fiber Holder System



PACKAGES

P/N	DESCRIPTION	S122A	S122A-KIT-1	S122A-KIT-2	S122M4	S122M4-KIT-1	S122M4-KIT-2
S122-A-A-0001	S122A Splice Body	•	•	•			
S122-M-A-0001	S122M4 Splice Body				•	•	•
S122-X-A-0002	Soft Carrying Case	•	•	•	•	•	
S122-X-A-0003	Strap	•	•	•	•	•	•
S122-X-A-0005	Hard Carrying Case		•			•	
S211B	Fiber Stripper		•	•	•	•	
S218R	Thermal Fiber Stripper				•	•	
S325A	One-Action Precision Cleaver	•	•	•	•	•	
S709A-004	4-Ribbon Fiber Holders (pair)			•	•	•	
S709S-250	250mm Fiber Holders (pair)	•	•	•	•	•	
S709S-900	900mm Fiber Holders (pair)		•				
S943	Li-ion Battery	•	•	•	•	•	
S943	Extra Li-ion Battery		•				
S957B	AC Adapter	•	•	•	•	•	
S958B	Battery Recharger	•	•	•	•	•	
S959	DC Adapter		•			•	
S966	Electrodes (pair)	•	•	•	•	•	
D5111	Electrode Cleaning Disk	•	•	•	•	•	
FPF-01	Fiber Preparation Fluid		•	•	•	•	
FW-01	Fiber Wipes		•	•	•	•	
FTS-B291	Manual	•	•	•	•	•	

OPTIONAL ACCESSORIES

P/N	DESCRIPTION
S122-X-A-0004	Working Table
S709A-002	2-Ribbon Fiber holders (pair)
S945	High Capacity Battery
CS202	Sheath Stripper
SS-01	Splicer Scissors



OPTICAL FIBER FUSION SPLICER

S177A Series Core-Alignment Fusion Splicer



DESCRIPTION

The new hand-held FITELE S177A incorporates an improved heating design that cuts splice-to-heat time by 40 percent, achieving a 9-second splice time and 37-second heat time. The unit's T-shaped body design is also 40 percent lighter, weighing only 4.85 pounds including battery. Ideal for fast field use, the S177A reduces the fiber length required for splicing by 30 percent. In addition, fiber magnification power is 608X, marking the industry's most powerful rating for a core alignment splicer.

SPECIFICATIONS

ITEM	DESCRIPTION
Splicing Method	Core-Alignment
Fiber Type(1)	SMF, MMF, DSF, NZDSF, EDF, TW, LF, HI1060, and many more
Cladding Diameter	80µm - 220µm
Coating Diameter	100µm - 1000µm
Average Loss (2)	SMF: 0.02dB, MMF: 0.01dB, DSF: 0.04dB
Splice Time	9 sec.
Heat Time	37-second (40mm), 51-second (60mm)
Applicable Sleeves	20 - 60mm
Cleave Length	150 - 200mm: 5mm, 250mm: 5 ~ 16mm; 400 / 900mm: 10, 16mm
Magnification	Up to 608X
Dimensions	130W x 260D x 137H (mm)
Power	AC Input: 85 to 264VAC (50/60Hz) DC Input: 11 to 17VDC, Battery: Li-ion
Battery	Internal Battery - 70 splice cycles External Battery (option) - 350 splice cycles
Splice Memory	2000 splices
Op. Environment	0 - 4,000m, -10 to +50 C and 90% at 38 C

(1) Applied to ITU-T Standard

(2) Testing done in a laboratory environment with similar fibers. Not guaranteed results.

FEATURES & APPLICATIONS

• Faster Splicing

The S177A has a lightening fast splice time of 9 seconds. Power up your production with the S177A!

• Multiple Splicing Programs

The S177A comes with 42 pre-installed splicing programs, providing optical component manufacturers with programs for specialty and dissimilar fiber splicing combinations (CS980, EDF, NZDSF, etc.).

• Built-in Battery

The S177A comes with an internal battery that automatically charges when the unit is plugged into AC Power - even while splicing!

• Transreflective LCD

The S177A comes equipped with a new transreflective LCD that allows for clear viewing of the splice even in direct sunlight.

• Large Data Memory Capacity

Data for up to 2,000 splices can be stored in the unit. All data can also be exported to a PC through USB connection to the splicer.

• Machine Self-Check

The S177A is equipped with a self diagnostic feature that can automatically verify the function of all motors, sensors, and cameras.

• Visual Guidance for Maintenance

The S177A is so advanced that it even offers visual step-by-step guidance for common maintenance procedures. Simply enter the maintenance menu and select the procedure you wish to perform and the unit will provide you step-by-step instruction with images.



• Available Fiber Holder System

The S707 series fiber holders are an option for the S177A to ease fiber preparation and transfer to the fusion splicer.





SEAMLESS SPLICING FROM TRUNK TO FTTX

The FITELE S177A ushers in a whole new range of applications for core-alignment splicing: It delivers the same precision, accuracy, and automated functionality of a conventional core-alignment unit, but with the speed, portability, and convenience of a hand-held splicer. The S177A becomes your versatile best choice for FTTx, LAN, backbone, or long-haul installations.



COMPACT, LIGHTWEIGHT BODY

At nearly half the weight and size of FITELE's standard core-alignment unit, the S177A weighs only 2.2 kgs (4.85 pounds) - making it the first hand-held and most compact, lightweight core-aligning splicer in the industry. The T-shaped body design, measuring just 5 inches across, easily accommodates short fiber lengths. The magnesium alloy canopy and top base provide the rugged strength required for field operations. Highly accurate, it easily handles diverse applications - from trunk splicing to FTTx.

PACKAGES

P/N	DESCRIPTION	S177A-01	S177A-01-KIT	S177A-02	S177A-02-KIT
S177-X-A-0001	Splicer Body	•	•	•	•
S177-X-S-0002	Spare Electrodes	•	•	•	•
S177-X-A-0003	Carrying Case	•	•	•	•
S177-X-S-0004	Manual	•	•	•	•
S177-X-S-0007	Fiber Holder Mounts			•	•
S177-X-S-0008	10mm Fiber Clamps	•	•		
S211B	Fiber Stripper		•		•
S325A	One-Action Precision Cleaver		•		•
S707-250	250µm Fiber Holders			•	•
S707-900	900µm Fiber Holders				•
S943	Internal Battery	•	•	•	•
S957B	AC Adapter	•	•	•	•
D5111	Electrode Cleaning Disk	•	•	•	•
FPF-01	Fiber Preparation Fluid		•		•
FW-01	Fiber Wipes		•		•

NEW GUI & LCD SCREEN

Featuring a new GUI (graphical user interface) and transreflective LCD screen technology, the S177A operation is a snap! Function keys are simple and information displays are crisp and clear even in direct sunlight. The LCD display shows the splicing process with simultaneous X and Y views. Fiber magnification is the highest available in the industry - 608X, and over 200 percent stronger than FITELE's previous model, the S176.



OPTIONAL ACCESSORIES

P/N	DESCRIPTION
S177-X-S-0005	Cooling Tray
S177-X-S-0006	USB Cord
S177-X-S-0007	Fiber Holder Mount
S177-X-A-0009	Loose Tube Holders
S177-X-A-0011	Work Stand
S177-X-A-0012	Work Table
S210	Furukawa Fiber Stripper
S707-080	80µm Fiber Holder
S707-400	400µm Fiber Holder
S945	Large Capacity External Battery



OPTICAL FIBER FUSION SPLICER

S183 Advanced Fusion Splicer Series

[770] 487.1234

www.BuyFitel.com

S183



DESCRIPTION

The S183 Advanced Fusion Splicer series was designed specifically for the demanding production and research applications of the optical components industry. There are two versions of the S183: the S183K offers programs for specialty and exotic fiber combinations as well as high-strength splicing applications. The S183PM can also splice polarization maintaining fiber faster than any other unit in the world. The S183 Advanced Fusion Splicer series is setting a new standard in the field of high-end fusion splicing applications.

FEATURES & APPLICATIONS

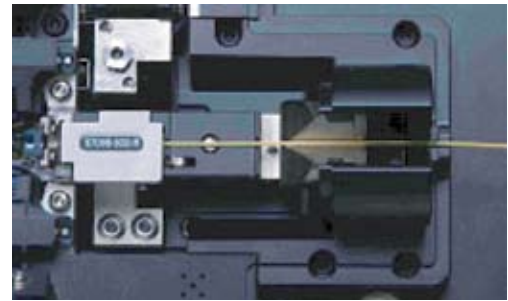
SAFE PM FIBER ROTATION

The new rotation mechanism on the S183PM allows PM fiber to rotate while keeping straight and stable. This minimizes fiber twist, which can be detrimental to sensitive splicing applications.



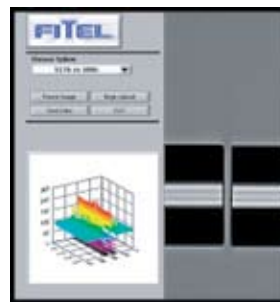
QUICK LOADING & AUTOMATIC MACHINE ADJUSTMENT

The S183 automatically adjusts for different fiber coating and cladding sizes. There is no need to exchange electrodes, v-grooves, or fiber clamps. In addition, the S183 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.



BI-DIRECTIONAL OPERATION

By changing the vertical screen display orientation, you can use the S183 with the LCD in the front or rear.



ADVANCED "SMARTFUSE" FUNCTIONALITY

The S183 includes a sophisticated software platform that enhances your splicing performance in the lab and factory. This software allows the user to document all splicing results, perform "live" splicing with real-time feedback from test equipment, and study splicing characteristics, to name just a few of the advanced features.



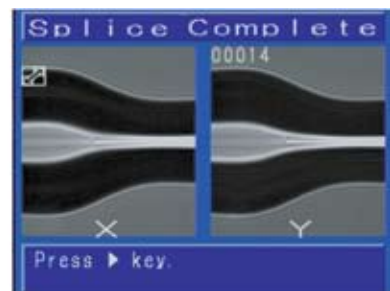
ADVANCED FUSION CONTROL

Arc curving, arc sequencing and arc scanning functions on the S183 allow it to perform a wide variety of advanced fusion control techniques to minimize the insertion loss and maximize the tensile strength for any specialty fiber combination.



FAST SPLICE TIME!!

The splice time is lightning fast at 42 seconds for PANDA and 20 seconds for SM. The S183 is the fastest in the industry for most fiber applications, allowing you to increase efficiency on your production line.



SPECIALTY SPLICING MADE EASY

The advanced features of the S183 allow you to splice today's and tomorrow's most exotic fiber types. Whether performing high-strength splices, splicing small cladding fibers (80mm), large cladding fibers (400mm), high MFD splicing combinations, PM fibers, or erbium-doped fiber, the S183 is the splicer for your high-end applications.

SPECIFICATIONS

ITEM	SPECIFICATION
Applicable Fibers	SMF, MMF, DSF, NZDSF, CSF, DCF, EDF, PMF
Fiber Cleave Length	3 to 5mm with coating clamping 9 to 11mm with bare fiber clamping
Cladding Diameter	80µm to 400µm
Coating Diameter	160µm to 900µm
Typical Insertion Loss (Similar Fiber Splicing)	0.02dB for identical Single-Mode Fibers 0.01dB for identical Multi-Mode Fibers 0.04dB for identical Dispersion Shifted Fibers 0.05dB for identical PM fibers (S183PM type)
Typical Insertion Loss (Dissimilar Fiber Splicing)	0.05dB for Single-Mode Fiber to PANDA fiber 0.10dB for Single-Mode Fiber to TIGER fiber 0.15dB for Single-Mode Fiber to BOW-TIE fiber 0.10dB for PANDA Fiber to TIGER fiber (S183PM type)
Typical Extinction Ratio* (Cross Talk)	-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 -32dB (1.4 degree) for PANDA Fiber to TIGER fiber -30dB (1.8 degree) for PANDA Fiber to BOW-TIE fiber
Loss Estimation	Cleave angle, Fiber Offset, Tilt, Micro-bending,
Parameters	Fiber end gap, Bubbling at splice point
Dimensions	350W x 197D x 154H[mm]
Weight	8.7kg
Splice Time	20 seconds for identical Single-Mode fibers 42 seconds for identical PM fibers (cladding clamping)* 60 seconds for identical PM fibers (coating clamping)*
Heating Time	90 seconds for 60mm sleeves 95 seconds for 40mm sleeves 40 seconds for 25mm sleeves
Return Loss	>60dB
Tensile Strength	Typical 300kpsi (25N) with coating clamping
Magnification	133X & 266X
Monitor	5" 8-color LCD monitor
Video Output	PIN
Data Interface	Serial, USB ver. 2.0, and Ethernet
Splice Programs	55 Default/150 Available
Splice Memory	Maximum 2000 splices
Operating Temperature	0 to +40 °C (without excessive humidity)
Storage Temperature	-40 to +60 °C (without excessive humidity)
Power Source	AC 100 to 240V (50-60Hz) with AC adapter

* S183PM only

STANDARD PACKAGE

ITEM	P/N	QTY
S183PM Main Body	S183-P-A-0001	1
160µm Coating Fiber Holders	S710S-080	1 pair
250µm Coating Fiber Holders	S710S-250	1 pair
400µm Coating Fiber Holders	S710S-400	1 pair
900µm Coating Fiber Holders	S710S-900	1 pair
Fiber Transporter	S183-X-A-0002	1
AC Adapter	S183-X-S-0003	1
AC Power Cord	S183-X-S-0004	1
Spare Electrodes	S183-X-S-0005	1 pair
Electrode Sharpener	- - -	1
User's Manual	- - -	1

OPTIONAL ACCESSORIES

DESCRIPTION	P/N	QTY
Remote Control Box	S183-X-A-0008	1
Ultrasonic Cleaner	S183-X-A-0009	1
Thermal Stripper	S219L/D	1
One-Action Precision Cleaver	S325A	1
Curl Remover	S533A	1
Fiber Recoater	S541A	1



OPTICAL FIBER FUSION SPLICER

S199M12 Series Mass Fusion Splicer



FEATURES

SMALL & PORTABLE

Small compact size with insertable battery. All models use same body case.

LARGE MONITOR

5-inch low reflection LCD is used. Can be clearly seen even under strong sunlight.

QUICK SPLICE TIME

Fibers are simultaneously inspected by two CCD cameras. As a result, the entire splicing process is very fast. Average splice time is 30 seconds.

EMBEDDED SELF DIAGNOSIS FUNCTION

Before carrying out real splicing, the embedded diagnosis function can help the user check the status of the machine.

FIBER POSITION ADJUSTMENT BUTTON

Fiber position adjustment button can help the user to fine tune the fiber position in the v-groove.

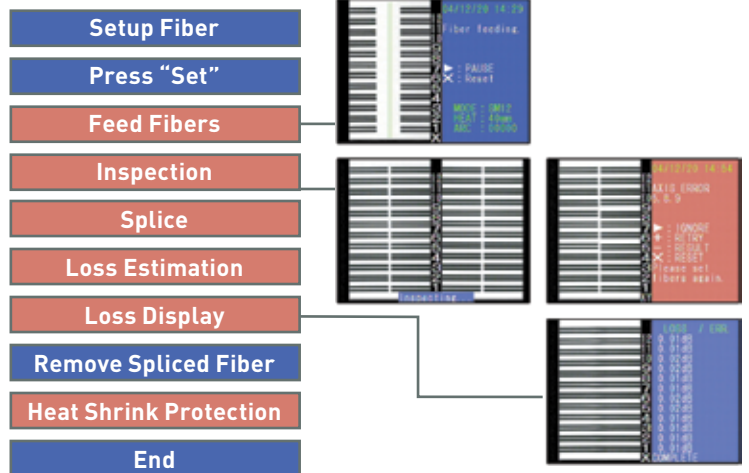
DESCRIPTION

Used for ribbon-type fiber splicing in Outside Plant and Long-Haul applications.

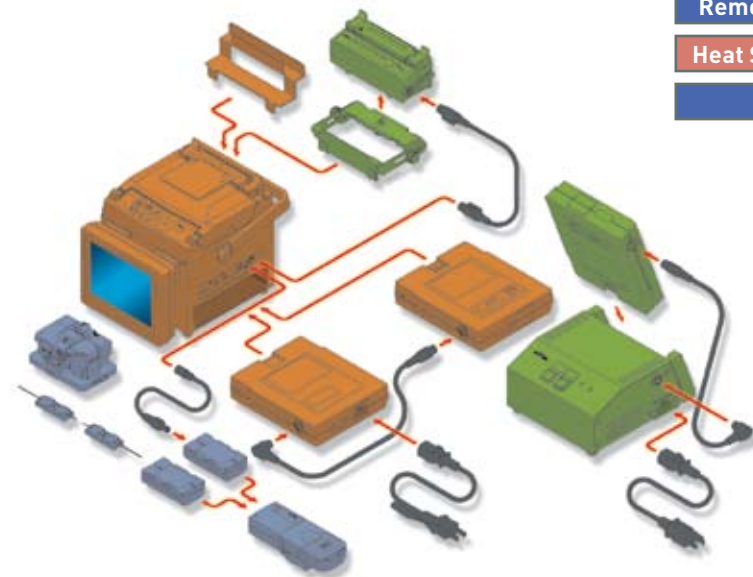
LINEUP

MODEL	APPLICABLE FIBER TYPE & FIBER COUNT
S199M12	SMF, MMF, DSF, NZDSF up to 12-fiber ribbon

OPERATION PROCEDURE



■ = Manual Process
■ = Automatic Process



■ = Standard Body & Parts
■ = Basic Accessories
■ = Extended Accessories

WHITE LED LAMP

White LED lamp can help the user to set up fiber in dark environments.

BATTERY LIFE INDICATOR

Battery life remaining can be checked on screen.

WIND PROOF

Splicer can withstand wind up to 33 mph (15m/s) without being affected.

FAN EMBEDDED HEATER

With the help of an embedded fan, fiber reinforcement time can be shortened.

AUTO TENSION ABSORPTION

Heater clamps can automatically absorb and adjust fiber's tension.

ARC CHECK

Arc check function can help machine to automatically adjust the arc discharge conditions based on the environmental condition. This is important for low-loss splicing.

DATA MEMORY

The splicer can store data up to a maximum of 250 splices.

SPECIFICATIONS

Fiber Type (1)	SMF	Single Fiber (250µm, 900µm); Ribbon Fiber (2F, 4F, 6F, 8F, 10F, 12F)
	MMF	Single Fiber (250µm, 900µm); Ribbon Fiber (2F, 4F, 8F, 12F)
	DSF	Single Fiber (250µm, 900µm); Ribbon Fiber (2F, 4F, 8F, 12F)
	NZDSF	Single Fiber (250µm, 900µm); Ribbon Fiber (4F, 6F, 8F, 10F, 12F)
Cladding Diameter		125µm
Coating Diameter		Single Fiber: 250µm, 900µm; Ribbon Fiber: 280µm to 400µm
Average Splice Loss (2), (3)		SMF: 0.03dB, MMF: 0.03db, DSF: 0.07, NZDSF: 0.05 - 0.09dB (brand dependent)
Average Splice Time		30 sec. splicing (3), 90 sec. heating (4)
Cleave Length		10mm
Data Memory		250 splices
Applicable Protection Sleeve		40mm/60mm
Dimensions		150W x 150D x 150H (mm) / 6"W x 6"D x 6"H
Weight		S199M12: 2.7kg / 7.3lbs
AC/DC Input		AC: 85-264V (50/60Hz), DC: 12V (S940 Battery)
Battery Life (5)		30 splices with heat shrink protection, 2 hours
Operating Temperature		-10°C to +50°C
Storage Temperature		-40°C to +60°C

PACKAGES

P/N	DESCRIPTION	S199M12	S199M12-KIT
S199M12	Splicer Body	•	•
S199X-12	Heater	•	•
S199X-13	Charger	•	•
S199X-15	AC Power Cord	•	•
S199X-17	Case	•	•
S199A-84	Users Manual	•	•
S218R	Thermal Stripper		•
S325A	One-Action Precision Cleaver		•
S706A-012	12-Fiber Ribbon Holders		•
S940	Battery	•	•
S950	Power Unit	•	•
S961	Electrode	•	•
FPF-01	Fiber Preparation Fluid		•
FW-01	Fiber Wipes		•



OPTIONAL ACCESSORIES

P/N	DESCRIPTION	NOTE
S954A	Battery Charger	Used for S940 Battery Charging
S199X-31	RS232 Cable	

S42X Series Fusion Splicer Tool Kits



DESCRIPTION

The S42X Series Fusion Splicer Tool Kit contains all of the necessary tools required for optical fusion splicing in a rugged carrying case. The durable carrying case features separate compartments for organizing tools and consumables. Available models include the economical S422 Tool Kit with basic tools and consumables, the S423 which includes an S325A Hand-Held High Precision Cleaver, and the S424 Tool Kit, which comes with S325A Cleaver and an S218R Thermal Stripper.

www.BuyFitel.com [770] 487.1234

S42X

PACKAGES

P/N	DESCRIPTION	S422	S423	S424
S210	Single Fiber Stripper	•	•	•
S218R	Thermal Stripper			•
S315	Single Fiber Cleaver	•		
S325A	Hand-Held High Precision Cleaver		•	•
- - -	Carrying Case	•	•	•
- - -	250cc Polyethylene Bottle with siphon	•	•	•
- - -	BEMCOT (cleaning cotton for optical fiber)	•	•	•
- - -	Cotton stick (cleaning tool for V groove, lens, mirror)	•	•	•
- - -	Blower brush (cleaning tool for V groove, lens, mirror)	•	•	•
- - -	Precision screw driver set & hexagonal wrench set	•	•	•
- - -	Electrode sharpener (Qty 2)	•	•	•

Mechanical Fiber Strippers



S210



S211B

DESCRIPTION

The S210 & S211B Single Fiber Strippers are designed to strip 250µm and 900µm diameter fiber. S210 stripper features a 20mm wide base with the blade located in the center to ensure safe longitudinal stripping.

SPECIFICATIONS

ITEM	SPECIFICATION
Fiber Type	Silica glass-based optical Fiber
Cladding Diameter	125µm
Coating Diameter	250µm - 3mm
Dimensions (S210)	80W x 20D x 26H (mm)
Weight (S210)	70g
Dimensions (S211B)	150W x 10D x 55H (mm)
Weight (S211B)	99g

STANDARD PACKAGE

MODEL	Includes
S210	Main Body & Case
S211B	Main Body

SS-01 Splicer Scissors



DESCRIPTION

These shears are designed to cut through the industry's toughest fabric, Kevlar®. Shears are equipped with serrated blades and ergonomic handle making them perfect for any job.

FIBER TOOLS & ACCESSORIES

S218R Thermal Stripper



DESCRIPTION

When you need a cordless, light-weight, quick-strip solution, the S218R optical fiber stripper efficiently solves your problems. This hot-stripping tool removes the coating of single fiber and ribbon fibers and runs on a built-in battery, providing cordless access around your workplace.

PACKAGE & ACCESSORIES

	DESCRIPTION	P/N
S218R	Main Body	S218R-01
	Battery	S944
	AC Adapter	S952
	Hexagon Wrench (Qty 2)	S218X-07
	Screwdriver	S218X-20
	Manual	- - -
S218R Optional Parts	Power Cord A	S218X-02
	Single Fiber Adapter	S218X-03
	Standard Blade	S218X-06
	900µm Blade	S218X-09

SPECIFICATIONS

FEATURES	DESCRIPTION
Applicable Fiber	Silica glass-based optical fibers
Cladding Diameter	125µm
Fiber Type	250µm to 900µm buffered single fiber 2-12 count 350µm to 400µm thick ribbon fiber
Power Source	DC: 11 ~ 14V, AC: 85 ~ 264V* * using S952 AC Adapter
Strip Length	Maximum 35mm
Heat-up Time	10 to 30 seconds
Operating Environment	0~40° C 95% Relative Humidity (non-condense)
Dimensions	125W x 48D x 41H (mm)
Weight	260g

S219D, S219L Thermal Stripper



DESCRIPTION

The S219 Benchtop Thermal Stripper is among FITELE's latest innovations for factory-based regular and high-strength fiber stripping. Designed to provide increased control and precision when stripping single and up to 12-f ribbon in the lab or factory.

SPECIFICATIONS

FEATURES	DESCRIPTION
Fiber Type	Silica glass-based optical fibers, Single fiber and 2-12 ribbon fibers SMF, MMF, NZDSF, DSF, EDF, etc.
Coating Diameter	250µm & 900µm single fiber
Cladding Diameter	125µm
Heat-up Time	5-15 seconds
Heat Range	90-150°C (adjustable in 5 increments of 15°C each)
Power Source	100 to 240 VAC, 50/60Hz with AC adapter S952
Dimensions	Dual-Sided Type: 208W x 71D x 50H [mm] Single-Sided Type: 125W x 71D x 50H [mm]
Weight	Dual-Sided Type: 0.9kg Single-Sided Type: 0.6kg

PACKAGE & ACCESSORIES

	DESCRIPTION	P/N
S219D/L	Main Body	S219D-01, S219L-01
	AC Adapter	S952
	Holder Adapter B 250-400	S219X-21 (Qty 2 for S219D)
	Blade Replacement Tool	S219X-02
	Temperature Adjustment Tool	S219X-03
	Cleaning Brush	S219X-04
	Manual	FTS-B170
	S219D/L Optional Parts	Single Fiber Adapter
S219D/L Optional Parts	Standard Blade	S219X-06
	250µm-400µm Blade	S219X-07
	250µm Guide	S219X-08
	400µm Guide	S219X-09
	900µm Blade	S219X-10
	900µm Guide	S219X-11
	Holder Adapter 250-400	S219X-01
	900µm Holder Adapter	S219X-12
	Holder Adapter B 900	S219X-22

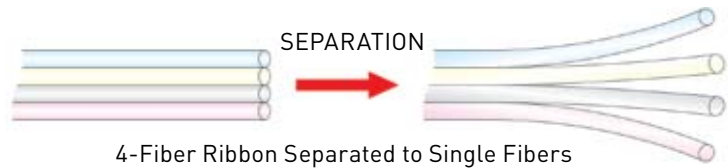
FIBER TOOLS & ACCESSORIES

S220A Ribbon Separator



DESCRIPTION

Tool used to initiate the separation of 2 to 12-fiber ribbon into single fibers.



SPECIFICATIONS

ITEM	SPECIFICATION
Fiber Type	Silica glass-based optical fiber
Ribbon Count	2-12 Ribbon Fiber
Ribbon Thickness	300mm ~ 400mm
Dimensions	55W x 30D x 22H (mm)
Weight	100g

STANDARD PACKAGE

MODEL	P/N	QTY	NOTE
Body	S220A	1	Includes Case
Manual	FTS-B014	1	

S233 Ribbon Splitter



DESCRIPTION

Tool for accurately splitting 4, 8, 12, and 24-fiber ribbons.



LINE UP

MODEL	APPLICATION
S233A	4 → 2/2 4 → 3/1
S233B	4 → 2/2 8 → 4/4
S233 C	24 → 12/12 12 → 6/6
S233D	12 → 6/6 12 → 8/4

STANDARD PACKAGE

P/N	ITEM	S233A	S233B	S233C	S233D
S233X-01	Main Body	•	•	•	•
S233X-02	Brush	•	•	•	•
S233X-03	Case	•	•	•	•
S233X-11	Fiber Guide A	•			
S233X-12	Fiber Guide B		•		
S233X-13	Fiber Guide C			•	
S233X-14	Fiber Guide D				•
S233X-81	User Manual	•	•	•	•

SPECIFICATIONS

ITEM	SPECIFICATION
Fiber Type	Silica glass-based optical fiber
Cladding Diameter	125µm
Ribbon Count	2 - 24 Fiber Ribbon
Ribbon Thickness	300µm ~ 400µm
Dimensions	115W x 20D x 20H (mm)
Weight	95g

Cable Sheath Strippers



CS201



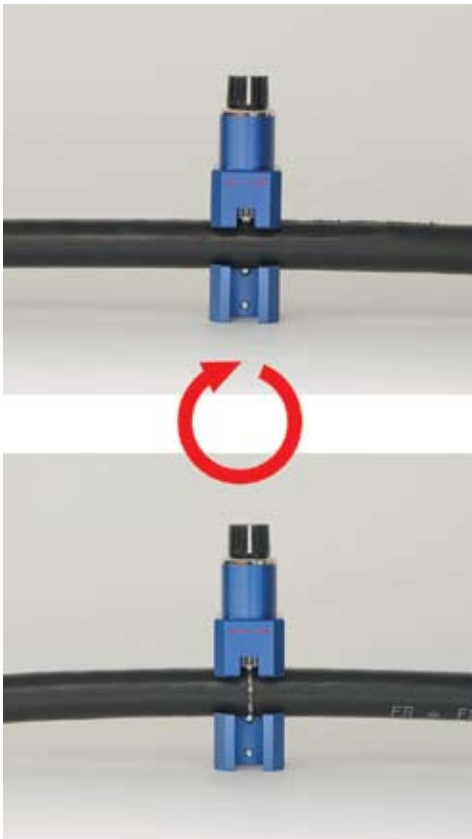
CS202

FEATURES

- Precisely removes the sheath of a cable without damaging the fibers
- Can be used to circularly cut the cable or cut the cable along its axis
- Blade is designed for safety
- Small and lightweight design

SPECIFICATIONS

ITEM	DESCRIPTION
Cable Diameter	10 ~ 32 μ m
Cable Material	PE.LAP
Weight	200g
Dimensions	90W x 38D x 52H (mm)
Blade	CS202



SHEATH REMOVING IMAGE

1. Mark Position



2. Cut along Cable Axis



3. Cut in Circle



4. Additional cut in axis direction



OPTICAL FIBER CLEAVER

S315 Field Cleaver



DESCRIPTION

The FITEL S315 single fiber cleaver is designed to cleave fibers quickly and accurately. The S315 will accommodate 250mm to 900mm coating diameters. This cleaver is available with a scale, allowing fiber cleave lengths from 2 to 20mm. Used for mechanical splices or field installation-type connectors. The cleave quality depends on the skill of operator and may not be suitable for fusion splicing.

FEATURES

MODEL	FEATURE	DESCRIPTION
S315	Cleave Length	2-20µm

SPECIFICATIONS

FEATURE	S315
Fiber Type	Silica glass-based optical fiber
Cleave Length	2-20µm
Dimensions	125W x 20D x 42H (mm)
Weight	65g

STANDARD PACKAGE

MODEL	ITEM	P/N	QTY
S315	Body	S315	1
	Case	- - -	1
	Manual	- - -	1

S325A One-Action Precision Cleaver



FEATURES

- One-Step Action
- Cleave Anywhere! - In Your Palm or on Your Desktop
- Easy Fiber Loading
- Simple Operation
- High Capacity Waste Fiber Collection
- Durable Design
- Easy Maintenance on-Site

SPECIFICATIONS

FEATURE	S325A
Fiber Types	All fiber types, single to 12-fiber ribbons
Clad Diameter	0.125µm
Coating Diameter	0.25µm and 0.9µm for single fiber; 0.3µm to 0.4µm thickness for ribbons
Cleave Length	Single Fiber: Fixed Length - 10 & 16mm Variable Length - 3 to 20mm Ribbon Fiber: 10mm Fixed Length
Dimensions	93W x 68D x 52H [mm]
Weight	330g

STANDARD COMPONENTS

MODEL	ITEM	P/N	QTY
S325A	Main Body	S325X-01	1
	Soft Carrying Case	S325X-02	1
	Normal Fiber Waste Bin	S325X-03	1
	Single Fiber Adapter	S325X-04	1
	Large Capacity Fiber Waste Bin	S325X-05	1
	Operation Manual	FTS-B277	1

S532A Sleeve Heater



S532X-02

DESCRIPTION

- External Heater used to protect fiber after splicing
- Selectable for 40mm or 60mm sleeve lengths
 - Clamp automatically applies tension to ensure the fiber is straight in the heater
 - Unit can be plugged directly into S199 and S176 series splicers

SPECIFICATIONS

ITEM	DESCRIPTION
Fiber Type	Silica glass-based optical Fiber
Fiber Count	Single to 12-fiber ribbon
Applicable Fiber	250µm - 900µm Single Coated Fiber 280µm - 400µm Coated Ribbon Fiber
Programs	5
Heating Time	100 sec. (at room temperature)
Input Power	DC11~14V; AC85~264V (must use S952)
Operating Environment	0 to 40C; 95% Humidity
Dimensions	130W x 56D x 45H (mm)
Weight	250g

STANDARD PACKAGE

ITEM	P/N	QTY
Body	S532A-01	1
AC Adapter	S952	1
Manual	- - -	1

OPTIONAL ACCESSORY

ITEM	P/N	QTY	NOTE
S176/S199 Connection Kit	S532X-02	1	Includes cord and adapter

S533 Curl Remover



DESCRIPTION

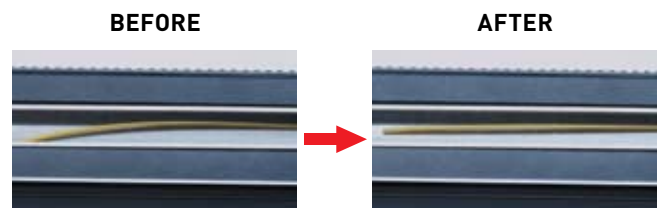
- Tool used to remove curl from 250um to 900um single fiber
- Remove curl
 - Small and light design
 - Adjustable temperature
 - Quick operation time of 10 seconds ⁽¹⁾

SPECIFICATIONS

ITEM	DESCRIPTION
Fiber Count	Single Fiber
Applicable Fiber	250µm - 900µm
Coating Material	UV or Nylon resin
Dimensions	130W x 56D x 45H (mm)
Weight	400g
Power	AC100~240V (S952)
Power Consumption	Max 22W

STANDARD PACKAGE

ITEM	P/N	QTY
Body	S533A	1
AC Adapter	S952	1
Manual	- - -	1



⁽¹⁾ by OFS fiber

S541A Recoater



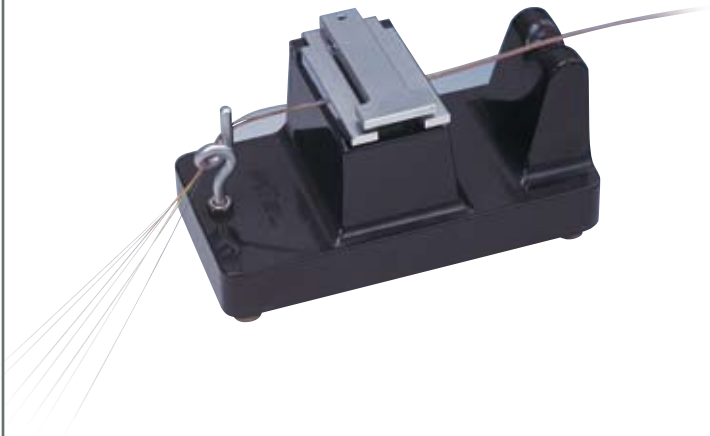
DESCRIPTION

- Automatic resin injection, curing and tension test
- Runs on electric power source only (no compressed air required)
- Fast cure with flash lighting
- Long-life UV lamp up to 100,000 flashes
- Programmable operation with default & customizable programs
- Injection, curing & tension test data memory for last 100 recoats
- Linear motion tension test for up to 20N
- Automatic dispensing and controllable volume
- Now available for recoating 8-fiber ribbon!

SPECIFICATIONS

ITEM	DESCRIPTION
Fiber Types	Single Fibers, 8-fiber ribbons
Clad Diameter	0.125 μ m
Coating Diameter	0.25 / 0.4 / 0.9 μ m 0.3-0.35 μ m ribbon coating
Minimum Fiber Length	150mm (6")
Recoating Performance	Recoating Diameter: Standard 0.26 μ m (for 0.25 μ m coated fiber) Optional 0.50 μ m (for 0.4 μ m coated fiber) Optional 1.0 μ m (for 9 μ m coated fiber) Optional 320 μ m (for 8-fiber ribbon)
Recoat Length	Maximum 40mm
Recoat Mold	Quartz
Recoat Resin	UV Curable Acrylate (ask for the recommended resin type for your application)
UV Source	UV Flash Lamp
Resin Injection	Automatic, injected by plunger pump from 30cc resin container; injection volume programmable
Curing Cycle	Flash lighting, repeatable in 3-second intervals; Up to 3 shots per recoat
Mold Cleaning Method	With Ethyl alcohol after every recoating
Cycle Time	30 seconds (typical for injection and curing)

S612 Ribbonizer



DESCRIPTION

- Ribbonizes single 250 μ m fiber into 2-12 ribbon fiber
- Ribbonize fiber for use in S199M series splicers

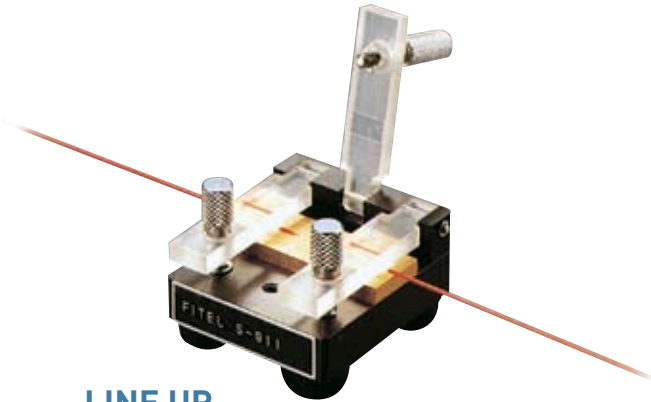
SPECIFICATIONS

ITEM	DESCRIPTION
Fiber Count	2-12 Fiber
Applicable Fiber	250 μ m single Fiber
Dimensions	120W x 60D x 58H (mm)
Weight	400g

STANDARD PACKAGE

ITEM	P/N	QTY	NOTE
Body	S612	1	
Glue	S611-04	2	2 x 50ml bottle
Manual	FTS-B001	1	

S91X Temporary Fiber Aligner



DESCRIPTION

Tool for temporarily aligning single fiber

- Preparation is same as splicing
- Average loss is 0.25dB for SMF fiber with matching gel

SPECIFICATIONS

ITEM	DESCRIPTION
Fiber Type	SMF, MMF (Single Fiber)
Insertion Loss	0.25dB (with matching gel)
Dimensions	50W x 55D x 33H (mm)
Weight	350g

LINE UP

MODEL	DESCRIPTION
S911	0.90 x 0.90
S912	0.90 x 0.40
S913	0.40 x 0.40
S914	0.40 x 0.25
S915	0.25 x 0.25
S916	0.25 x 0.90

STANDARD PACKAGE

ITEM	P/N	QTY
Main Body	S91X	1
User Manual	- - -	1

S918A Temporary Fiber Aligner



DESCRIPTION

The S918A creates a temporary connection of single to 12-ribbon fibers.

SPECIFICATIONS

ITEM	DESCRIPTION
Fiber Type	Silica glass-based optical fiber
Ribbon Count	2 - 12 Fiber Ribbon
Coating	250µm - 900µm Single Fiber 300µm - 400µm Ribbon Fiber (250mm pitch)
Cleave Length	10mm
Typical Loss*	0.2dB (using matching gel)
Pushing Mechanism	Manual dial wheel
Light	Switch turns light on in magnification area
Dimensions	Body: 131W x 90D x 58H (mm) Case: 385W x 270D x 95H (mm)
Weight	Body: 540 (g) Case: 1250 (g)

STANDARD PACKAGE

ITEM	P/N	QTY	NOTE
Main Body	S918A-01	1	
Light	S918A-02	1	
Matching Gel	S918X-31	1	10cc/50g
Bamboo Pick	S918X-32	5	
Case	S918X-33	1	
Manual	- - -	1	

SmartFuse Advanced Fusion Splicer Software



FEATURES

SPLICER NETWORKING - Allows user to efficiently monitor the performance of every FITEL machine on the production floor simultaneously through RS232, ethernet, or USB connection.

- Communicate with a FITEL splicer via PC (direct RS232 connection)
- Monitor the entire FITEL production line via one PC (ethernet connection)
- Quickly send productivity reports to management

QUALITY CONTROL - Establishes database of all splicing results allowing user to trace results by splicer, date, model, or splicing program.

- Collect splicing data such as insertion loss, estimated loss, extinction ratio, etc.
- Collect process data such as axis offset, gap, cleave angle, etc.
- Incorporate data into periodic reports to upper management

STATISTICAL PROCESS CONTROL - Statistical analysis tool allows operator or supervisor to examine splicing trends and improve splicing quality.

- Quickly and efficiently analyze statistical data from each machine on the network
- Determine proper maintenance schedule based on statistical data
- Determine when operator training or maintenance is required on a machine
- Generate statistical reports for management
- Graphically display data as a histogram, line chart, pareto analysis, table, etc.

INTERFACE TO TEST EQUIPMENT - Provides a flexible conduit between fusion splicer and test equipment (power meters, OTDRs, ER meters, etc.). Allows user to perform "live" splicing with real-time feedback from test equipment.

- Allows user to quickly and easily connect fusion splicer to most popular brands of test equipment such as:
- ANDO • JDS Fitel • Agilent • GN Nettest • Oz Optics

DOWNLOAD/UPLOAD - Conveniently download optimized splicing programs to multiple splicers at the same time, or upload data from splicers to computer.

- Quickly download splicing programs and parameters from PC to multiple splicers in seconds
- Receive program updates from FITEL via email and import the improvements directly to all splicers on the production floor

ADVANCED DEVELOPMENT - SmartFuse allows engineers to edit/compare current programs and optimize splicing parameters for specialty applications.

- Function allows engineer to develop new splicing programs for special fiber combinations

SmartFuse is designed specifically for use with the following FITEL fusion splicer models: S175 series, S176 series, S177 series, S182 series, S183 series and S199 series.

ID-H Fiber Identifier



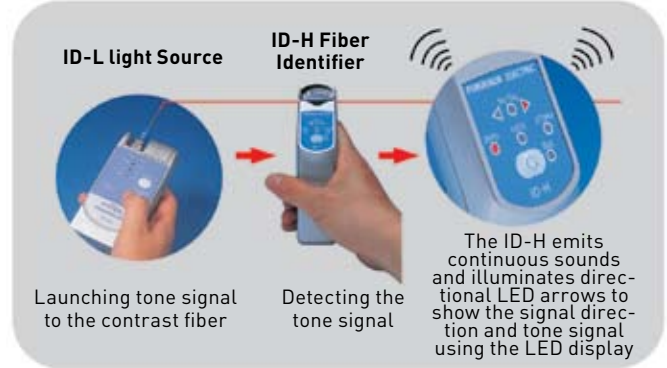
DESCRIPTION

The ID-H Fiber Identifier is a lightweight, handheld, easy-to-use tool to safely and effectively identify the transmission direction, fiber path, and relative core power on live optical fibers.

FEATURES

- Lightweight design for handheld use
- Included carrying case attaches easily to belt or tool pouch
- Battery powered for portable use
- Interchangeable adapter heads for jacketed, coated, or ribbon fiber
- Detects tone signal and traffic signal without disconnection of the optical fiber
- LED displays and audible tone indicators for clear identification
- Detects 270Hz, 1kHz, and 2kHz tone signals
- Super low insertion loss compared to similar product

EXAMPLE



STANDARD PACKAGE

ORDERING CODE	PRODUCT NAME	P/N	REMARKS
ID-H	Main Unit	ID-H-101	Battery, Strap, and Instruction Manual included
	Adapter Head (For single fiber and ribbon)	ID-H-102	Applicable for following SMF: Up to 12-fiber ribbon; 250µm single fiber
	Adapter Head (For tight buffer)	ID-H-103	Applicable for SM 900µm tight buffer
	Adapter Head (For 1.6mm cordage)	ID-H-104	Applicable for SM 1.6mm cordage
	Adapter Head (for 3.0mm cordage)	ID-H-105	Applicable for SM 3.0mm cordage
	Carrying Case	ID-H-106	Attaches to tool belt
Option	Adapter Head (for 2.0mm cordage)	ID-H-107	Applicable for SM 2.0mm cordage

SPECIFICATIONS

ITEM	DESCRIPTION		
Applicable Fiber	Up to 12-fiber ribbon 250µm single fiber	900µm tight buffer fiber	Cordage
Applicable Wavelength	1550nm		
Frequency for Tone Signal ⁽¹⁾	270Hz, 1kHz, 2kHz		
Typical Insertion Loss	1310nm: 0.1dB 1550nm: 1.0dB	1310nm: 0.1dB 1550nm: 0.5dB	1310nm: 0.1dB 1550nm: 0.5dB
Minimum Receiving Level ⁽²⁾	1550nm: -38dBm	1550nm: -33dBm	1550nm: -25dBm
Indication for Traffic Signal ⁽³⁾	Direction LED illuminates + Intermittent buzzer sound		
Indication for Tone Signal	Direction LED and Tone signal; LED illuminates + continuous buzzer sound		
Operating Time	8 hours (Using alkaline battery) (Auto shutdown functionality)		
Dimensions	40W x 60D x 150H (mm)		
Weight	160g (including battery)		

(1) Duty ratio 50%, (2) This specification is based on Furukawa optical fiber with Furukawa's test method, DO NOT disconnect or rewire based only on the traffic signal detection. Make sure to launch the tone signal before disconnecting or rewiring the fiber.

ID-L Light Source



Carrying Case

SPECIFICATIONS

ITEM	DESCRIPTION
Wavelength	SM/1550+/- 30nm
Frequency	CW, 270Hz, 1kHz, 2kHz
Launch Power	More than -5dBm
Connector Type	SC
Battery Life	16hrs (uses standard 9V battery)
Dimensions	70W x 22.5D x 128H (mm)
Weight	160g

STANDARD PACKAGE

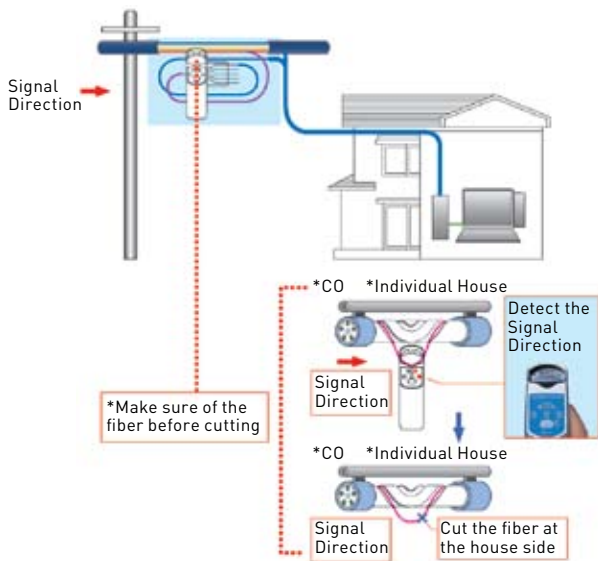
ITEM	P/N	QTY
Main Unit	ID-L/DA1	1
Carrying Case	ID-L/XA1	1
Manual	- - -	1

DESCRIPTION

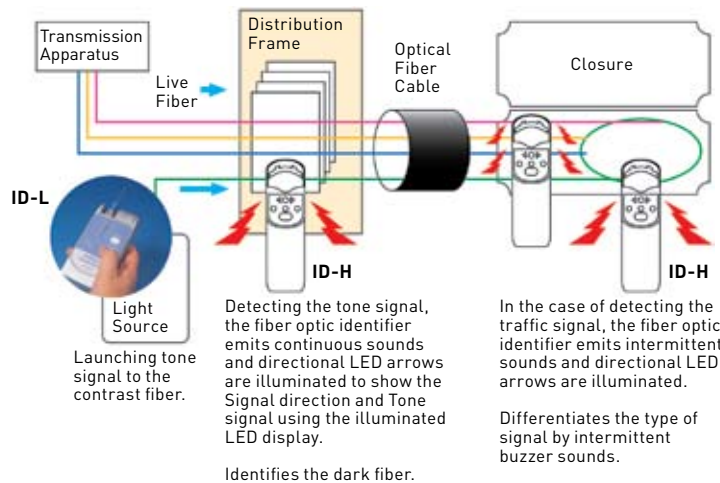
The ID-L Light Source used in conjunction with the Fiber Identifier offers you all the right tools to make your job easier. The ID-L is lightweight, hand-held unit that features a single button control to change the output mode from CW, 270Hz, 1kHz, and 2kHz. The ID-L is battery powered and includes an auto-shutdown function.

- Operates more than 16 hours by battery (auto shutdown function)
- SC, FC, ST, DIN, and DIA connectors are available
- Lightweight design for easy handling
- Removable adapter for easy cleaning
- Used in conjunction with the FITEL ID-H Fiber Identifier

EXAMPLE FOR APPLICATION

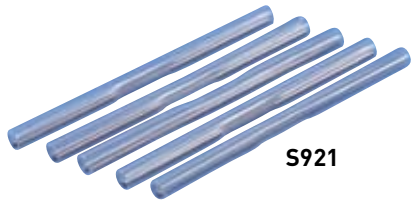


EXAMPLE FOR APPLICATION

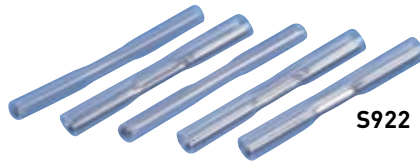


CONSUMABLES

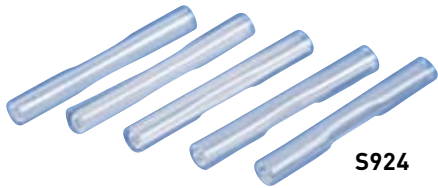
S92X Series Sleeves



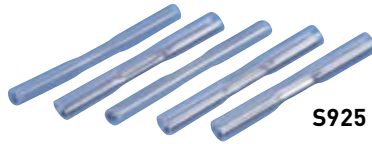
S921



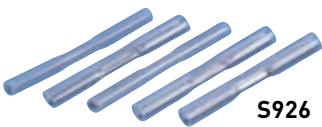
S922



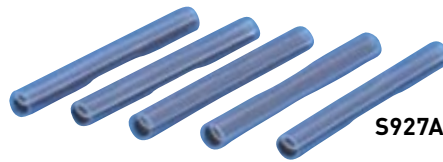
S924



S925



S926



S927A

DESCRIPTION

FITEL offers a wide variety of protection sleeves to accommodate single and ribbon fibers. FITEL's protection sleeves come in ribbon, standard, slim, mini, and macro sizes. They are composed of an outer an inner sleeve reinforced by internal members made of stainless steel or quartz.

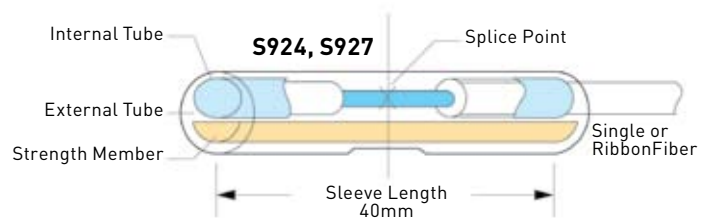
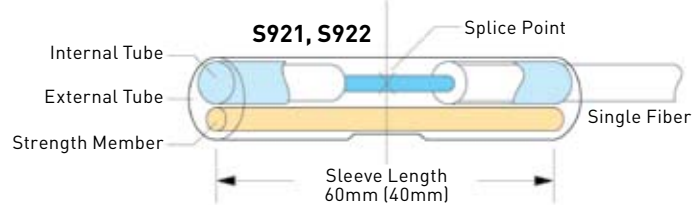
LINE UP

MODEL	FIBER COUNT	CLEAVE LENGTH	SLEEVE LENGTH	MEMBER MATERIAL
S921	Single	16mm	60mm	Stainless Steel
S922	Single	10mm	40mm	Stainless Steel
S924	Up to 12-fiber	10mm	40mm	Quartz
S925	Single	5mm	20mm	Stainless Steel
S926	Single	5mm	25mm	Stainless Steel
S927A	Up to 8-fiber	10mm	40mm	Ceramic
S927B	Up to 12-fiber	10mm </td <td>40mm</td> <td>Ceramic</td>	40mm	Ceramic
S927C	Up to 24-fiber	10mm	40mm	Ceramic

STANDARD PACKAGE

MODEL	QTY
S921	50/pack
S922	50/pack
S924	25/pack
S925	25/pack
S926	25/pack
S927A	25/pack
S927B	25/pack
S927C	25/pack

REINFORCEMENT SLEEVE STRUCTURE



FPF-03H Fiber Preparation Fluid



DESCRIPTION

FPF-03H Fiber Preparation Fluid is engineered to provide a nonflammable, nonhazardous cleaner for use on fiber after stripping, prior to fusion splicing. This high-purity, environmentally safe solvent delivers consistent cleaning, taking variation out of the cleaning process. The fluid is contained in a hands-free spill proof bottle for ease-of-use.

FW-01 Fiber Wipes







DESCRIPTION

FW-01 Fiber Wipes are specifically designed for use in the fiber optic industry. These lint-free wipes are made of DuPont's lint-free, hydroentangled polyester fabric. This means each Fiber Wipe is stronger, but softer and more absorbent than traditional cellulose wipes. Each mini-tub contains 90 perforated lint-free wipes. The wipes are packaged in a compact pull-out tub. Each wipe is 4" x 2," which is the perfect size for cleaning fibers prior to splicing.

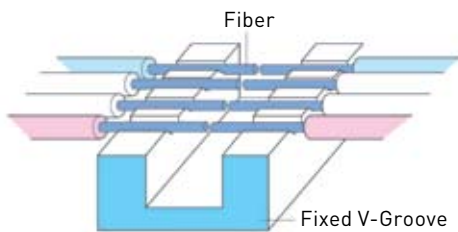
Types of Fusion Splicers in the industry

There are a number of ways to categorize splicers. Here we categorize them based on the fiber alignment type: Fixed V-Groove alignment type and Core-Alignment type. The Fixed V-Groove is typically used for ribbon fiber splicing. The Core-Alignment type is used for single fiber splicing with more precise requirement, such as optical components manufacturing. With both types, the arc discharge is same.

Type				
Alignment Type	Fixed V-Groove (Clad Alignment)		Core Alignment	
Fiber Observation	2 CCD Cameras			
Applicable Fiber	SMF, MMF	SMF, MMF, DSF, NZDSF	SMF, MMF, DSF, NZDSF, EDF, DCF	SMF, MMF, PMF, NZDSF, EDF, DCF
Fiber Count	S121A: Single Fiber S121M: 1, 2, 4 Fibers	S199M12: 1 - 12 Fibers S199M24: 1 - 24 Fibers	Single Fiber	
Cladding Diameter	125µm		80 - 200µm	80 - 400µm
Coating Diameter	Single: 250µm, 900µm Ribbon: 280µm ~ 400µm		Single: 100µm ~ 1000µm	
Cleave Length	10mm		250mm: 5 ~ 16mm 900µm: 16mm (10mm option)	Normal strength: 9 - 11mm, High strength: 3 - 5mm
Dissimilar Splicing	No		Yes	
Specialty Splicing	No		Yes	
High Strength Splicing	No			Yes
Polarization Maintaining Splicing	No			Yes
Applicable Sleeves	40 ~ 60mm		20 ~ 60mm	
Battery	Available		No	

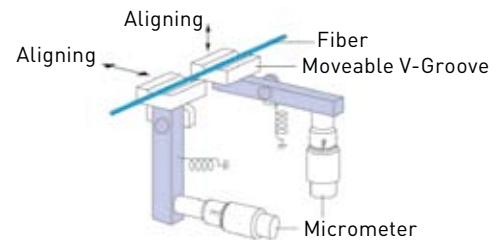
ALIGNMENT TYPE

FIXED V-GROOVE



* Assumes the eccentricity of the fiber is very small.

CORE ALIGNMENT



* With the help of image processing core alignment is realized.

OPTICAL FIBER FUSION SPLICER

Technical Support

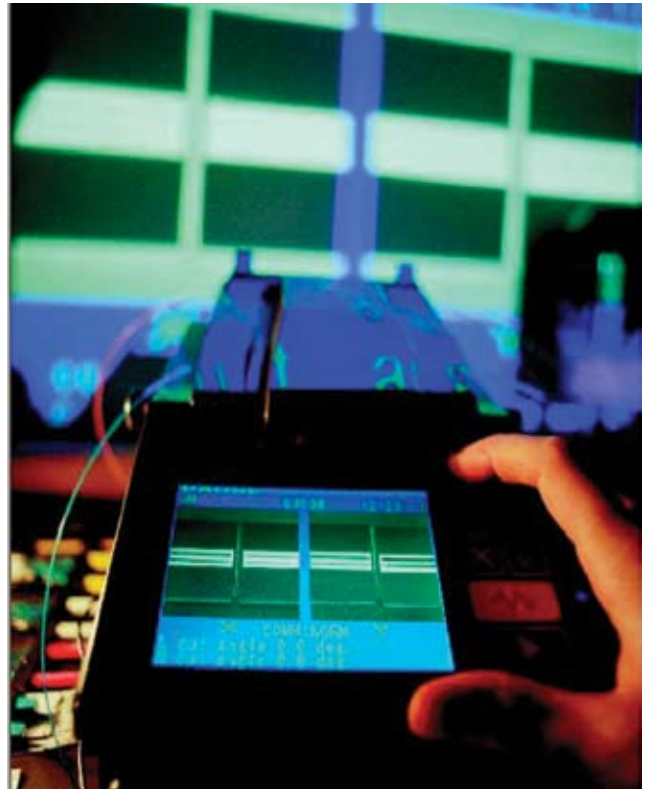
SERVICE & MAINTENANCE

Based in Peachtree City, GA, our Service Center provides you with the best after-sales and technical support available. All your questions can be handled in-house by our technical staff, who have immediate access to all the necessary technical specifications.

Our internal engineers and technicians have attended extensive training courses at our manufacturer's factory in Japan. Trained by professionals with over 20 years of experience in the fusion splicer business, our staff possesses the skills necessary to solve all your splicing problems.

Using our growing knowledgebase of user inquiries, we can accurately diagnosis and troubleshoot most problems over the phone. We can also develop specialty fiber splicing programs for all our fusion splicers based on your specific needs. This has been especially useful to our component manufacturers that require a non-standard splicing solution.

We pride ourselves on the quality of our work, testing all machines to precise manufacturer's specifications. That way, you can be sure your serviced machines return as good as when you first bought them.



To make sure you're accommodated during repairs, we have a reserve of machines that can be provided as loaners. If a repair takes longer than expected, a loaner machine can be issued to keep you working. With our expert service technicians and stock of loaner machines covering nearly every model, we can ensure the shortest possible turn around time for all your machine servicing and repairs.

TRAINING PROGRAMS

Choosing the right splicer for your application is important, but in order to get the best performance and reliability from any splicer, it is vital to understand the technology and splicing process. By training your staff, you'll provide them with the knowledge and skills necessary to prepare fibers properly and operate the machine correctly. Fusion splicing is just one element in a mix of skills needed for successful installation of fiber optic cabling and the production of photonic assemblies.



TEL: +1 770 487 1234 24 Hour Technical Support
www.FurukawaAmerica.com splacers@FurukawaAmerica.com



TAKING SPLICERS TO THE NEXT LEVEL

 **THE FURUKAWA ELECTRIC CO., LTD.**

Head Office:

6-1, Marunouchi 2-chome,
Chiyoda-ku, Tokyo, 100-8322, Japan
TEL: + 81 3 3286 3222
FAX: + 81 3 3286 3747
www.furukawa.co.jp
comsales@ho.furukawa.co.jp

Europe:

Furukawa Electric Europe, Ltd.
3rd Floor, Newcombe House
43-45 Notting Hill Gate,
London W11 3FE U.K.
TEL: + 44 20 7313 5320
FAX: + 44 20 7313 5310
www.furukawa.co.uk
sales@furukawa.co.uk

China:

Furukawa Shanghai, Ltd.
Room 2908, United Plaza,
No. 1468 Nanjing West Road
Shanghai 200040, P.R. China
TEL: + 86 21 6279 4885
FAX: + 86 21 6467 7943
www.furukawa.co.jp
sales@furukawa-sh.com

North & South America:

Furukawa America, Inc.
200 Westpark Drive, Suite 190
Peachtree City, GA 30269
TOLL FREE: + 1 800 274 8335
TEL: + 1 770 487 1234
FAX: + 1 770 487 9910
24Hr. Pager: + 800 756 1121
www.FurukawaAmerica.com
splicers@FurukawaAmerica.com

South East Asia:

Furukawa Electric Singapore Pte. Ltd.
10 Anson Road, #25-07/09,
International Plaza, Singapore 079903
Tel: + 65 6328 9896
Fax: + 65 6224 2362
www.furukawa.com.sg
admin@furukawa.com.sg