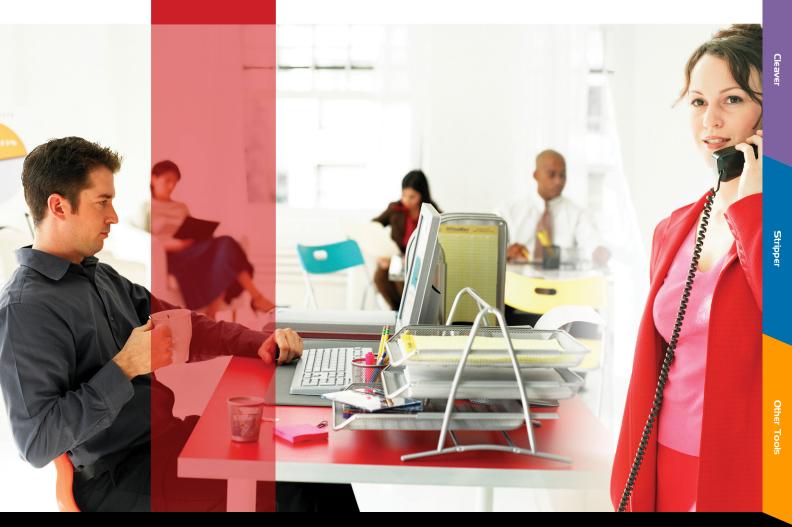
FiTeL S122C Specs
Provided by www.AAAtesters.com



A Furukawa Company

Fusion Splicers



FITEL® Fusion Splicers & Tools Catalog



www.ofsoptics.com Volume 1



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 customers. 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/S122M4/ S122M8/S122M12

...page 4-7

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/S177LDF

...page 8-11

The new hand-held FITEL S177A Fusion Splicer 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, making this the industry's most powerful core alignment splicer.



\$183PM ...page 12-13

The S183 Full Function Fusion Splicer series provides you the ultimate splicing solution. Designed primarily to address production and research splicing needs. This is the most advanced series in FITEL's extensive line of high performance machines. The S183PM Splicer offers a total solution for precision polarization maintaining fiber splicing. This model offers high strength splicing, specialty fiber splicing and attenuation splicing - all essential processes when using Special Fibers.

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Fusion Splicers

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OPTICAL FIBER SPLICING PROCESS

STRIPPING



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

CLEANING



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

CLEAVING



Using a precise cleaver to cut the fiber.

SPLICING





ing a fusion splicer to align bers & discharge the arc to connect the fibers. In addition, the unit will bect the quality of the splice

after the process.

PROTECTION



Using a heat-shrinking sleeve to protect spliced fiber.

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 requirements, such as optical components manufacturing. With both types, the arc discharge is same.

| Туре | S122A/S122M4 | S122M8/S122M12 | \$177A/\$177LDF | S183PM | |
|---|---|--|---|---|--|
| Alignment Type | Fixed V-Groove | e (Clad Alignment) | Core Ali | Core Alignment | |
| Fiber Observation | | 2 CCD | Cameras | | |
| Applicable Fiber | SMF, MMF, I | DSF, NZDSF | SMF, MMF, DSF, NZDSF, EDF, DCF | SMF, MMF, PMF,* NZDSF, EDF, DCF | |
| Fiber Count | S122A: Single Fiber S122M4: 1 ~ 4 Fibers | S122M8: 1 ~ 8 Fibers S122M12: 1 ~ 12 Fibers | Single Fiber | | |
| Cladding Diameter | 12 | 25μm | S177A: 80 ~ 200 μm S177LDF: 125 ~ 400 μm | 80 ~ 200 μm | |
| Coating Diameter | | 0 μm, 900 μm) μm ~ 400 μm | Single: 160 ~ 900μm | | |
| Cleave Length | S122A, S122M4, S122M8, S122M12: 10 mm | | $250 \mu \text{m}$: 5 \sim 16 mm $900 \mu \text{m}$: 16 mm (10 mm option) | Normal strength: 9 ~ 11 mm High strength: 3 ~ 5 mm | |
| Dissimilar Splicing | No Yes | | | es | |
| Specialty Splicing | | No | Ye | es | |
| High Stength Splicing | No | | | Yes | |
| Polarization Maintaining Splicing | No | | | Yes | |
| Applicable Sleeves | S122A, S122M4, S122M | ∕/18, S122M12: 40 ~ 60 mm | 20 ~ 6 | 60mm | |
| Battery | Available | | S177A: Available S177LDF: No. | No / | |
| | | | 1 | * : S183PM only | |

ALIGNMENT TYPE

FIXED V-GROOVE (\$122)

Fiber

Aligning

Aligning

Fiber

Moveable V-Groove

CORE ALIGNMENT (\$183)

Aligning

Woord Work of the control of th

S122 SERIES Hand-Held Fusion Splicer



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.

Key Features:

Superb Mobility and Workability

Super low profile design, with only 4.7cm 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.

Real Time Arc Control

Patented process which increases consistency and reduces splice loss. Also, virtually eliminates the need for traditional arc checks by actively calibrating the arc during each splicing cycle.

Fiber Clamp Vibration System (S122M8 and S122M12 only)

New fiber clamp vibration system allows for easy fiver placement. System inspects axis offset before each splice and makes necessary adjustment for ideal splicing.

Automatic Fiber Count Identification

Unit automatically identifies fiber ribbon count and selects the proper program for splicing. There is no need to manually change the program when operators want to splice different fiber counts.

RoHS and Telcordia (GR-765-CORE for S122A, GR-1095-CORE for S122M4 / M8 / M12) Compliant













Product Line-Up:

| Model | Application |
|---------|---|
| S122A | Splicing for single fiber using Fiber Holder System / Splice-On Connector Ready |
| S122M4 | Splicing for single fiber to 4-fiber ribbon using Fiber Holder System |
| S122M8 | Splicing for single fiber to 8-fiber ribbon using Fiber Holder System |
| S122M12 | Splicing for single fiber to 12-fiber ribbon using Fiber Holder System |

| Fiber Types | SMF, MMF, DSF, NZDSF |
|--------------------------|---|
| Cladding Diameter | 125 μm |
| Coating Diameter | 250 μ m to 900 μ m for single fiber 280 μ m to 400 μ m for ribbon (thickness) [S122M4. S122M8. S122M12] |
| Average Splice Loss | SMF: 0.05 dB, MMF: 0.03 dB, DSF: 0.08 dB, NZDSF: 0.08 dB |
| Splice Time | 13 sec. (S122A), 15 sec. (S122M4. S122M8. S122M12) |
| Heat Time | Single Fiber: 37 sec. (40 mm), 51 sec. (60 mm), Ribbon Fiber: 45 sec. (40 mm) |
| Tension Test | 1.96 N |
| Applicable Sleeve Length | 40/60 mm |
| Program Memory | Splice Programs: Max. 150, Heat Programs: Max. 12 |
| Splice Memory | Max. 1,500 (S122A. S122M4), Max. 1,000 (S122M8. S122M12) |
| Fiber Image Display | Simultaneous two-axis display Magnification 120X (S122A), 48X (S122M4), 28X (S122M8), 20X (S122M12) |
| Dimensions | 140W × 189L × 73H mm (S122A. S122M4), 140W × 189L × 86H mm (S122M8. S122M12) |
| Weight | 800g / 1.8lb. (S122A. S122M4), 960g / 2.1lb. (S122M8. S122M12), 170g / 0.4lb. (battery) |
| AC Input | 100 to 240 VAC |
| DC Input | 10.6 ~ 12.6 V |
| Battery Capacity | 50 splices with heat shrink protection (S122A. S122M4) 40 splices with heat shrink protection (S122M8. S122M12) |
| Operating Temp. | -10° C to + 50° C |
| Storage Temp. | -40° C to + 60° C |

Packages

| Packages | | /s̈́ | */s | `b'/s | 'S | `V'S | 1/5° |
|---------------|-------------------------------|------|-----|-------|----|------|------|
| P/N | Description | | | | | | |
| 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 | • | • | • | • | • | • |
| S959U | DC Adapter | | | • | | | • |
| S966 | Electrodes (pair) | • | • | • | • | | • |
| D5111 | Electrode Cleaning Disk | | • | • | | | • |
| FPF-01 | Fiber Preparation Fluid | | • | • | | • | • |
| FW-01 | Fiber Wipes | | • | • | | • | • |
| FTS-B291 | Manual | • | • | • | • | • | • |
| | | | | | | | |



| 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 |



S177A Hand-Held Core-Alignment Fusion Splicer 💽



Seamless Splicing from Trunk to FTTX

Key Features:

- Most compact, lightweight core-alignment splicer in the industry!
- New graphical user interface (GUI) to enhance ease-of-use.
- Transreflective LCD allows clear view even in direct sunlight.
- Best-in-industry fiber magnification-680X.
- Built-in battery automatically charges when plugged into AC-even when splicing!
- RoHS and Telcordia (GR-765-CORE) compliant



| Splicing Method | Core-Alignment |
|-------------------------|---|
| Applicable Single Fiber | SMF, MMF, DSF, NZDSF, EDF |
| Average Insertion Loss | SMF: 0.02 dB, MMF: 0.01 dB, DSF: 0.04 dB, NZDSF: 0.03 dB |
| Splice Time | 9 sec |
| Heat Time | 37 sec (40 mm), 51 sec (60 mm) |
| Splice/Heat Programs | 150 available / 12 available |
| Cleave Lenght | 5-16 mm (250 μm), 10 or 16 mm (900 μm) |
| Dimension/Weight | 130 W×260 D×137 H mm / 2.20 kg (4.85 lbs) [weight including battery] |
| Splice Memory | 2000 splices |
| Operating Enviroment | 0~4,000 m, -10 to +50° C and 90% at 38° C |
| Data Output | USB 1.1 |
| Battery Life | Internal - 70 splice / heat cycles |
| Power | AC Input: 85 to 264 V (50/60 Hz), DC Input: 11 to 17 V, Battery: Li-ion |
| | |



Seamless Splicing from Trunk to FTTX

The FITEL 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 covenience 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 FITEL's standard core-alignment unit, the S177A weight only 2.2 kgs (4.85 lbs) – 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.



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 then FITEL's previous model, the S176.



Standard Package:

| P/N | Description |
|---------------|-------------------------|
| S177-X-A-0001 | Splicer Body |
| S177-X-S-0002 | Spare Electrodes |
| S177-X-A-0003 | Carrying Case |
| S943 | Internal Battery |
| S957 | AC Adapter |
| D5111 | Electrode Cleaning Disk |
| S177-X-S-0004 | Manual |

Optional Accessories:

| P/N | Description |
|---------------|----------------------------------|
| S177-X-S-0005 | Cooling Tray |
| S177-X-S-0006 | USB Cord |
| S177-X-S-0007 | Fiber Holder Mount |
| S707S-080 | 80 μ m Fiber Holder |
| S707S-250 | 250μm Fiber Holder |
| S707S-900 | 900μm Fiber Holder |
| S707S-400 | 400 μ m Fiber Holder |
| S210 | Furukawa Fiber Stripper |
| S211 | Miller Stripper |
| S325A | Hand-Held High Precision Cleaver |

ORDERING NUMBER FORM:



| Fiber Holder Type | Cleave Length |
|---------------------------------------|---|
| 0: 16mm Tight Holder | 125 / 250 μ m: 5 \sim 16 mm; 125 / 900 μ m: 16 mm |
| 1: 10mm Tight Holder | 80 / 150 ~ 200 μm: 5 mm; 125 / 250 μm: 5~10 mm; 125 / 900 μm: 10 mm |
| 2: Fiber Holder System SOC Applicable | 80 / 150~200 μm: 5 mm; 125 / 250 ~ 900 μm: 10 mm |
| 3: Loose-Tube-Holder | 125 / 250 μm: 5 ~ 10 mm |
| | |



S177 Large Diameter Fusion Splicer 💽



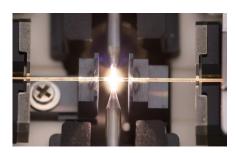
The FITEL S177LDF Large Diameter Fusion Splicer builds upon the robust performance of the proven S177A Splicer and expands its capabilities to splice up to $400\,\mu m$ cladding fiber. The unique design effectively blends fusion splicing with portability, speed, and the ease of operation of FITEL's S177 series machines.

| Splicing Method | Active Clad-Alignment |
|--------------------------|--|
| Applicable Optical Fiber | SMF |
| Fiber Cladding Diameter | 125 \sim 400 μ m |
| Fiber Coating Diameter | 250 ~ 900 μm |
| Cleave Length | 10 mm |
| Splice Loss (Typical) | 0.04 dB (Furukawa identical 125 μ m-SMF) |
| Splice Time | 16-second for 125 μ m SM fiber 26-second for 400 μ m LDF |
| Heat Time | 37-second for 40mm protection sleeve 51-second for 60mm protection sleeve |
| Dimensions | 130 W × 260 D × 137 H mm |
| Weight | 2.0 kg |
| AC Power | AC Input : 100 to 250 V (50/60 Hz) |
| | |



Key Features:

The S177LDF Splicer is able to splice from 125 μm to 400 μm cladding fiber as well as to splice different diameter fibers for 400 μm and 125 μm . These highend splices are provided with small, light and fast, easy to use and low cost S177 series fusion splicer.



An upgraded high voltage Arc Discharge Unit provides the power necessary for LDF splicing. A wide field of view camera and advanced optical design expands the viewing range of the proven S177A design. These two capabilities allow for automated active LDF alignment while maintaining the precision of conventional 125 µm splicing.

Like other Furukawa fusion splicers, featuring GUI (graphical user interface), the S177LDF operation is a snap! Function keys are simple and information displays are crisp and clear.





Standard Package:

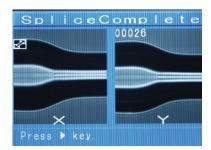
| P/N | Description | Qty | Note |
|----------------|--------------------------|--------|---|
| S177L-A-X-0001 | S177LDF Main Body | 1 | |
| S707T-600 | Fiber Holders | 1 set | Applicable Coating Diameter: 250 \sim 900 μ m |
| S968 | Spare Electrode | 1 pair | |
| S177-X-A-0003 | Hard Carrying Case | 1 | |
| S971 | AC Adapter | 1 | |
| D5111 | Electrodes Cleaning Disk | 1 | |
| | Operation Manual | 1 | Manual |

S183PM Advanced Fusion Splicer Series

Take Splicing to the Next Level & Beyond!

The S183 Advanced Fusion Splicer series was designed specifically for the demanding production and research applications of the optical components industry. The S183PM Advanced Fusion Splicer offers programs for specialty and exotic fiber combinations as well as high-strength splicing applications. This splicer 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 for high-end fusion splicing applications.

Features & Applications:

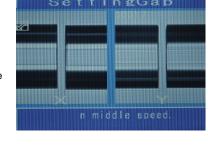


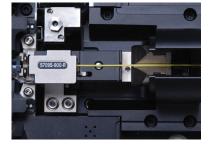
Specialty Splicing Made Easy

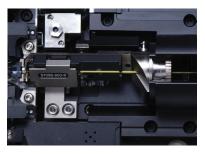
The advanced features of the S183 allow you to splice today's and tomorrow's most exotic fiber types. Whether performing high-strength splices, splicing small cladding fibers (80 μ m), large cladding fibers (200 μ m), high MFD Δ splicing combinations, PM fibers, or erbium doped fiber, the S183 is the splicer for your high-end application.

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.







Safe PM Fiber Rotation

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

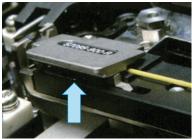


The S183 Splicer automatically adjusts for different fiber coating and cladding sizes. There is no need to exchange electrodes, v-grooves, or fiber clamps. In addition, the S183 Splicer has been designed so that the user simply loads the fiber and closes the lid to begin the fusion process. There is no need to lower or set fiber clamps before beginning your splice.



The S183 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.





Specifications:

| Fibers Cleave Length Cladding Diameter Coating Diameter Typical Insertion Loss (Similar Fiber Splicing) Typical Insertion Loss (Dissimilar Fiber Splicing) Typical Extinction Ratio | SMF, MMF, DSF, NZDSF, CSF, DCF, EDF, PMF 3 to 5 mm with coating clamping / 9 to 11 mm with bare Fiber clamping 80 ~ 200 \(\mu \) 160 ~ 900 \(\mu \) 0.02 dB for identical SMF / 0.01 dB for identical MMF 0.04 dB for identical DSF / 0.05 dB for identical PM Fibers 0.05 dB for SMF to PANDA Fiber / 0.10 dB for SMF to TIGER Fiber 0.15 dB for SMF to BOW-TIE Fiber / 0.10 dB for PANDA Fiber to TIGER Fiber -40 dB (0.6 degree) for identical PANDA Fibers |
|--|--|
| Cladding Diameter Coating Diameter Typical Insertion Loss (Similar Fiber Splicing) Typical Insertion Loss (Dissimilar Fiber Splicing) Typical Extinction Ratio | 80 ~ 200 μm 160 ~ 900 μm 0.02 dB for identical SMF / 0.01 dB for identical MMF 0.04 dB for identical DSF / 0.05 dB for identical PM Fibers 0.05 dB for SMF to PANDA Fiber / 0.10 dB for SMF to TIGER Fiber 0.15 dB for SMF to BOW-TIE Fiber / 0.10 dB for PANDA Fiber to TIGER Fiber |
| Coating Diameter Typical Insertion Loss (Similar Fiber Splicing) Typical Insertion Loss (Dissimilar Fiber Splicing) Typical Extinction Ratio | 160 ~ 900 μm 0.02 dB for identical SMF / 0.01 dB for identical MMF 0.04 dB for identical DSF / 0.05 dB for identical PM Fibers 0.05 dB for SMF to PANDA Fiber / 0.10 dB for SMF to TIGER Fiber 0.15 dB for SMF to BOW-TIE Fiber / 0.10 dB for PANDA Fiber to TIGER Fiber |
| Typical Insertion Loss (Similar Fiber Splicing) Typical Insertion Loss (Dissimilar Fiber Splicing) Typical Extinction Ratio | 0.02 dB for identical SMF / 0.01 dB for identical MMF 0.04 dB for identical DSF / 0.05 dB for identical PM Fibers 0.05 dB for SMF to PANDA Fiber / 0.10 dB for SMF to TIGER Fiber 0.15 dB for SMF to BOW-TIE Fiber / 0.10 dB for PANDA Fiber to TIGER Fiber |
| Typical Insertion Loss (Similar Fiber Splicing) Typical Insertion Loss (Dissimilar Fiber Splicing) Typical Extinction Ratio | 0.04 dB for identical DSF / 0.05 dB for identical PM Fibers 0.05 dB for SMF to PANDA Fiber / 0.10 dB for SMF to TIGER Fiber 0.15 dB for SMF to BOW-TIE Fiber / 0.10 dB for PANDA Fiber to TIGER Fiber |
| Typical Extinction Ratio | 0.15 dB for SMF to BOW-TIE Fiber / 0.10 dB for PANDA Fiber to TIGER Fiber |
| 71 | -40 dB (0.6 degree) for identical PANDA Fibers |
| (Similar Fiber Splicing) | -32 dB (1.4 degree) for identical TIGER Fibers -32 dB (1.4 degree) for identical BOW-TIE Fibers |
| (Crose Talk) | -32 dB (1.4 degree) for PANDA Fiber to TIGER Fiber -30 dB (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 | 350 W × 197 D × 154 H mm / 8.7 kg |
| Splice Time 4 | 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 60 mm sleeves 95 seconds for 40 mm sleeves 40 seconds for 25 mm sleeves |
| Return Loss | > 60 dB |
| Tensile Strength | Typical 300 kpsi (25 N) with High strength splice |
| Magnification 1 | 133X & 266X |
| Monitor 5 | 5" 8-color LCD monitor. |
| Video Output F | PIN |
| Data Interface S | Serial, USB ver1.1, and Ethernet |
| Splice Programs 5 | 55 Default / 150 Available |
| Splice Memory | Maximim 2000 splices |
| Operating Temperature | 0 to +40° C (without excessive humidity) |
| - ' - ' - | -40 to +60° C (without excessive humidity) |
| | AC 100 to 240V (50 / 60 Hz)with AC adaptor |

S183 Standard Package:

| P/N | Description | Qty |
|---------------|-----------------------------------|--------|
| S183-P-A-0001 | S183PM Main Body | 1 |
| S710S-080 | 160 μ m Coating Fiber Holders | 1 pair |
| S710S-250 | 250 μ m Coating Fiber Holders | 1 pair |
| S710S-400 | 400 μ m Coating Fiber Holders | 1 pair |
| S710S-900 | 900 μ m Coating Fiber Holders | 1 pair |
| S183-X-A-0002 | Fiber Transporter | 1 |
| S183-X-S-0003 | AC Adaptor | 1 |
| S183-X-S-0004 | AC Power Cord | 1 |
| S183-X-S-0005 | Spare Electrodes | 1 pair |
| | Electrode Sharpener | 1 |
| | User's Manual | 1 |

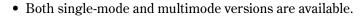
S183 Optional Accessories:

| P/N | Description | Qty |
|---------|------------------------------|-----|
| S325A | High Precision Cleaver | 1 |
| S325S80 | High Precision 80 μm Cleaver | 1 |

Splice-On Connector Termination System

Description:

FITEL's new connector termination system allows for unsurpassed performance and flexibility in the field. This new "splice-on" connector eliminates the need for field polishing and significantly improves the quality of the termination and installation time required. FITEL's factory polished ferrules with pre-cleaved fiber stubs are spliced onto the field fiber utilizing FITEL's proprietary ferrule holder and fusion splicer. The connector is easily assembled by using a process that requires minimal skill or training.





Technical Information - Splicer:

| Туре | S122A | S177A | |
|-------------------------|-----------------------|------------------------------------|--|
| Splicing Method | Clad-Alignment | Core-Alignment | |
| Fiber Type | SMF, MMF, DSF, NZDSF | SMF, MMF, DSF, NZDSF, EDF, etc. | |
| Insertion Loss | Typical 0.05 dB (SMF) | Typical 0.02 dB (SMF) | |
| Battery Capacity | 50 splice cycles | 70 splice cycles | |
| Applicable Sleeves | 20 - 60mm | 20 - 60mm | |
| | | | |

Technical Information - Connector:

| Туре | SC/Ultra PC; FC/Ultra PC SC/Angled PC; FC/Angled PC | | | | |
|----------------|---|--|--|--|--|
| Insertion Loss | Typical 0.30dB | | | | |
| Reflectance | < - 55 dB < -65 dB | | | | |
| Fiber Type | SMF | | | | |
| Jacket Type | 900 μm, 2 mm, 3 mm | | | | |
| Ferrule Type | Zirconia ceramic ferrule with pre-polished fiber stub | | | | |

Features & Applications:

- Simple, Fast, & Consistent Field Termination Allows for easy field repair of pre-terminated splitters, fan outs, and drop terminals.
- No Polishing or Epoxy

FITEL's connector termination process requires no polishing or epoxy increasing the quality and consistency of field connector termination. Total installation time is greatly reduced compared to traditional methods.

Fiber Management

The most difficult task for splicer operators has always been managing the fiber upon completion of splicing. The connector termination feature on the S177A eliminates the need for splice trays resulting in easier fiber management, reduced storage requirements, and faster installation times.

900 µm CONSTRUCTION



2 & 3 mm CONSTRUCTION















SEIKOH GIKEN CONNECTORS

Ordering Information

| P/N | Description |
|----------|---|
| S707C | SOC Fiber Holder for S177A-02 |
| S325A | S325A Hand-Held High Precision Cleaver |
| S240A | S240A Slitter Snapper |
| SS-01 | SS-01 Splicer Scissors |
| S211B | S211B 3-Hole Fiber Stripper |
| CRP-01 | CRP-01 SOC Crimp Tool |
| SSCS-PN1 | SC/APC Splice-On-Connector, 900 μ m |
| SSCS-PN2 | SC/APC Splice-On-Connector, 2 mm |
| SSCS-PN3 | SC/APC Splice-On-Connector, 3 mm |
| SSCS-P1 | SC/UPC Splice-On-Connector, 900 μm |
| SSCS-P2 | SC/UPC Splice-On-Connector, 2 mm |
| SSCS-P3 | SC/UPC Splice-On-Connector, 3 mm |
| SAPS-388 | FC/APC Splice-On-Connector, 900 μm |
| SAPS-386 | FC/APC Splice-On-Connector, 2 mm |
| SAPS-387 | FC/APC Splice-On-Connector, 3 mm |
| SAPS-358 | FC/UPC Splice-On-Connector, 900 μ m |
| SAPS-356 | FC/UPC Splice-On-Connector, 2 mm |
| SAPS-357 | FC/UPC Splice-On-Connector, 3 mm |







SOC CONNECTORS

Cleaver

One-Step Cleaving... In the Palm of your Hands

S325A Hand-Held High Precision Cleaver

Key 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:

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

^{*} S325S80 High precision cleave for 80 μm cleaving is also available.

Standard Components:

| 1 |
|---|
| |
| 1 |
| 2 |
| 1 |
| 1 |
| 1 |
| |



S310 and S315 Single Fiber Cleavers

The FITEL S310 and S315 Single Fiber Field Cleavers are designed for cleaving fiber in the field quickly and easily. The S310 and S315 Field Cleavers can accommodate 0.25 mm and 0.9 mm coating diameters and their small lightweight size makes them the perfect addition to any field splicing system. The S310 and S315 Field Cleavers require some skill to achieve the desired cleave angle and may not be appropriate for some splicing applications. The S310 is specifically designed to cleave fiber in the field accurately to a 16 mm length. The S315 Cleaver has a graduated scale, which allows for cleave lengths of 5 to 20 mm.

Applicable Optical Fiber:

Silica glass-based optical fibers, single fiber, 0.25 mm and 0.9 mm coating diameter, 0.125 clad diameter.

Models:

S310: For cleaving to 16 mm length

S315: For cleaving 5 to 20 mm length adjusting with scale



S218R Thermal Stripper 🕢



New & Improved !! **Cordless, Light, & Quick**

Key Features:

- Exceptional stripping for single and ribbon fiber
- Simple Operation via built-in battery or AC power
- · Built-in battery recharger-battery always charging when AC power is connected
- Durable Design
- Easy Maintenance on-Site
- RoHS Compliant





Specifications:

| Fiber Types | All fiber types, single to 12-fiber ribbons | | | |
|----------------------|--|-------------------------------|--|--|
| Clad Diameter | 0.125 mm | | | |
| Coating Diameter | 0.25 mm to 0.4 mm for single fiber; 0.3 mm to 0.4 mm thickness for ribbons | | | |
| Power Source | DC 11 ~ 14V AC 85~264 V *using S952 AC Adapter | | | |
| Battery Running Time | Approximately 10 hrs. | | | |
| Charge Time | Approximately 2.5 hrs. | *when unit is in off position | | |
| Operating Environmet | Temperature: $0 \sim 40^\circ$ C Humidity: Below 95% | *non-condensing | | |
| Dimensions/Weight | 125 W × 48 D × 41 H mm, 260 g | *weight including battery | | |

Package & Accessories:

| Model | P/N | Description | Qty | Note |
|----------------------------|----------|----------------------|-----|---|
| | S218R-01 | Main Body | 1 | |
| S944 | | Battery | 1 | |
| 0040D | S952 | AC Adapter | 1 | |
| S218R | _ | Hexagon Wrench | 1 | For replacing blade |
| | _ | Screwdriver | 1 | For battery cover |
| | _ | User's Manual | 1 | |
| | S218X-02 | Power Cord A | 1 | Cord used to connect S218R to splicer |
| S218R Optional Parts | S218X-03 | Single Fiber Adapter | 1 | Used when stripping single fiber without a fiber holder |
| 1 arts | S218X-06 | Spare Blade | 1 | |



S210 Single Fiber Stripper

The FITEL S210 Single Fiber Stripper is designed to strip 0.25 mm as well as 0.9 mm diameter fiber. This easy to use stripper has a 20 mm wide base with the blade located in the

center to ensure safe longitudinal stripping.



Applicable Optical Fiber:

Silica glass-based optical fibers, single fiber, 0.25mm and 0.9mm coating diameter, 0.125 clad diameter.

| Dimensions | 20 W \times 80 D \times 26 H mm |
|------------|-------------------------------------|
| Weight | 70 g |

Fusion Splicer Accessories and Consumables

S42X Fusion Splicer Tool Kits

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.

| Description | | Model | | Qty |
|---|------|-------|------|-----|
| | S422 | S423 | S424 | |
| S210 Single Fiber Stripper | 0 | 0 | 0 | 1 |
| Carrying case | 0 | 0 | 0 | 1 |
| 250 cc Polyethylene bottle with siphon | 0 | 0 | 0 | 1 |
| Cleaning cotton for optical fiber | 0 | 0 | 0 | 1 |
| Cotton stick for cleaning V-groove, lens, mirror | 0 | 0 | 0 | 1 |
| Blower brush for cleaning V-groove, lens, mirror | 0 | 0 | 0 | 1 |
| Precision screw driver set and hexagonal wrench set | 0 | 0 | 0 | 1 |
| Electrode sharpener | 0 | 0 | 0 | 2 |
| S310 Single Fiber Cleaver | 0 | | | 1 |
| S325A High Precision Cleaver | | 0 | 0 | 1 |
| S218R Thermal Stripper | | | 0 | 1 |



S220A Optical Ribbon Fiber Separator

Designed to initiate separating 2 to 12-fiber ribbons into single fibers.

After shaving with S220A Separator, the ribbon fiber can be easily separated by fingers into single fibers. Compact carrying case included as standard.



Applicable Optical Fiber:

2 to 12 fiber ribbons with the thickness of 0.30 \sim 0.40 mm

| Dimensions | 55 W $	imes$ 30 D $	imes$ 42 H mm |
|------------|-----------------------------------|
| Weight | 100 g |

Caution

Do not use the S220A Separator on live fiber or for a mid-span strip. Discard the section of the fibers to which the S220A Separator was applied before splicing or reconnecting the exposed fibers.

| Model | Description | Qty |
|----------|-----------------|-----|
| S220A | Fiber Separator | 1 |
| FTS-B013 | User's Manual | 1 |
| | | |



Fusion Splicer Accessories and Consumables

S233 Optical Ribbon Fiber Splitter

FITEL S233 Ribbon Splitter splits 4, 8, 12,and 24-fiber ribbons more easily, quickly, and accurately than ever before! Another great FITEL fusion splicing accessory from OFS!

Key Features:

- Small, simple, and compact design for field use.
- All-metal body for maximum durability.
- Interchangeable fiber guides for different ribbon sizes.
- No tools required to change fiber guides!

Applicable Optical Fiber:

 $125\,\mu m$ cladding diameter; 4/8/12/24-fiber ribbons; 0.25 mm pitch; 0.30 to 0.40 mm thickness; UV-cured acrylic resin coating*

* S233 may not work satisfactorily with some ribbon fiber coating materials.

| Dimensions | 115 W \times 20 D \times 20 H mm |
|------------|--------------------------------------|
| Weight | 95g |



Models: (see below for Fiber Guide descriptions)

\$233A: Fiber Guide A is included as standard **\$233B**: Fiber Guide B is included as standard **\$233C**: Fiber Guide C is included as standard

Caution:

Do not use the S233 on live fiber or for a mid-span strip. Discard the section of the fibers to which the S233 was applied before splicing or reconnecting the exposed fibers.

Standard Package:

| Description | P/N | Qty | Note | | Model | |
|----------------|----------|-----|--|-------|-------|-------|
| | | | | S233A | S233B | S233C |
| Main Body** | S233X-01 | 1 | All-metal base body for all fiber guides | 0 | 0 | 0 |
| Cleaning Brush | S233X-02 | 1 | Tool to remove fiber jacket waste | 0 | 0 | 0 |
| Carrying Case | S233X-03 | 1 | Clear; holds all standard components | 0 | 0 | 0 |
| Fiber Guide A | S233X-11 | 1 | Obverse: 4-fiber ribbon > 2 x 2-fiber ribbons Reverse: 4-fiber ribbon > 3-fiber ribbon & single-fiber | 0 | _ | _ |
| Fiber Guide B | S233X-12 | 1 | Obverse: 4-fiber ribbon > 2 x 2-fiber ribbons Reverse: 8-fiber ribbon > 2 x 4-fiber ribbons | _ | 0 | _ |
| Fiber Guide C | S233X-13 | 1 | Obverse: 12-fiber ribbon > 2 x 6-fiber ribbons Reverse: 24-fiber ribbon > 2 x 12-fiber ribbons | _ | _ | 0 |
| User's Manual | S233X-82 | 1 | User's Manual | 0 | 0 | 0 |

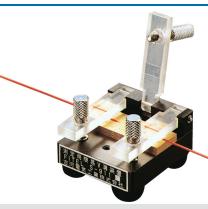
^{**} Not sold individually

S91X Temporary Fiber Aligner

Designed as a jig for temporary jointing the fibers for measuring transmission loss or for experimental purposes. A simple procedure to strip, clean, cleave and load the fiber makes a temporary jointing with a typical average loss of 0.25 dB for SM fiber (when using matching oil).

| Item | P/N | Qty |
|---------------|------|-----|
| Main Body | S91X | 1 |
| User's Manual | _ | 1 |

| Fiber Type | SMF, MMF (Single Fiber) | |
|------------|----------------------------|--|
| Insertion | 0.25 dB (with maching gel) | |
| Dimensions | 50 W × 55 D × 33 H mm | |
| Weight | 350 g | |



| Model | Dia. of Applicable Fibers | Qty |
|-------|---------------------------|-----|
| S911 | 0.90×0.90 | 1 |
| S912 | 0.90×0.40 | 1 |
| S913 | 0.40×0.40 | 1 |
| S914 | 0.40 × 0.25 | 1 |
| S915 | 0.25 × 0.25 | 1 |
| S916 | 0.25×0.90 | 1 |

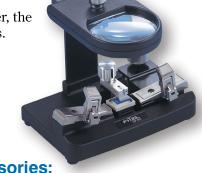
S918A Temporary Fiber Aligner

Designed to make the time-consuming job of testing ribbon fiber quicker and easier, the S918A allows the user to create a temporary connection of single to 12-ribbon fibers.

Specifications:

| opoomoanom | | | |
|--------------------------|---|--|--|
| Fiber Type | Silica glass-based optical fiber | | |
| Ribbon Count | 2-12 Fiber Ribbon | | |
| Coating | 250 μ m-900 μ m Single Fiber 300 μ m-400 μ m Ribbon Fiber (250 mm pitch) | | |
| Cleave Length | 100 mm | | |
| Typical Loss | 0.2 dB (using matching gel) | | |
| Pushing Mechanism | Manual dial wheel | | |
| Light | Switch turns light on in magnification area | | |
| Dimensions | Body : 131 W × 90 D × 58 H mm Case : 385 W × 270 D × 95 H mm | | |
| Weight | Body : 540 g | | |
| | | | |

| P/N | Applicable Fibers (Number of fibers/Diameter or Ribbon Thickness) |
|-----------|---|
| S706S-025 | Single/0.25 mm |
| S706S-090 | Single/0.9 mm |
| S706A-002 | 2-fiber ribbon/0.4 mm |
| S706A-004 | 4-fiber ribbon/0.4 mm |
| S706A-008 | 8-fiber ribbon/0.4 mm |
| S706A-012 | 12-fiber ribbon/0.4 mm |



Optional Accessories:

Fiber Holders :

The fiber holders to meet your fiber type are required from the following selections.

Standard Components:

| Description | Model No. | Qty |
|---------------|-----------|-----|
| Main Body | S918A-01 | 1 |
| Light | S918A-02 | 1 |
| Matching Gel | S918X-31 | 1 |
| Bamboo Pick | S918X-32 | 5 |
| Case | S918X-33 | 1 |
| User's Manual | _ | 1 |

S612 Ribbon Forming Fixture

Designed to form a ribbon-like fiber with 2 to 12 single fibers. S612 Ribbon Forming Fixture offers a high efficient simultaneous fiber splice with FITEL ribbon fusion splicers.

- Easy to operate.
- Smallest fixture in the industry.
- Consumables are adhesive only.

Specifications:

| Applicable optical fiber | 2 to 12 fiber ribbons |
|--------------------------|-----------------------|
| Dimensions | 120W×60D×58H mm |
| Weight | 400g |

Standard Components:

| Description | Model No. | Qty |
|------------------------|-----------|-------------------|
| Ribbon forming fixture | S612 | 1 |
| Adhesive | S611-04 | 50 ml x 2 bottles |
| User's Manual | FTS-B010 | 1 |

Protection Sleeves

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

Model, Specification & Applicable Fiber:

| Model | Applicable fiber | Length | Material of strength member | Pieces/ pack |
|---------|--|--------|--------------------------------|-----------------|
| S921 | Single fiber, 0.25-0.9 mm coating diameter | 60 mm | Stainless steel | 25 |
| S922 | Single fiber, 0.25-0.9 mm coating diameter | 40 mm | Stainless steel | 25 |
| S924 | Single fiber and up to 8-fiber ribbon | 40 mm | Quartz | 25 |
| S927A | Single fiber and up to 8-fiber ribbon | 40 mm | Ceramic | 100 |
| S927B | Single fiber and up to 12-fiber ribbon | 40 mm | Ceramic | 100 |
| S928A20 |) | 20 mm | Stainless steel | 100 |
| S928A25 | Single fiber 0.25-0.4 mm coating diameter | 25 mm | Stainless steel | 100 |
| S928A35 | | 35 mm | Stainless steel | 100 |

ID-H/R Fiber Identifier



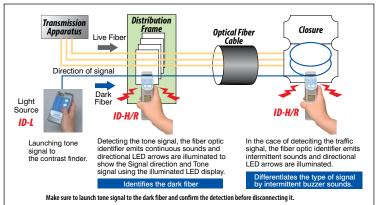
The FITEL ID-H/R is a rugged, user-friendly tool which identifies optical fibers by detecting the optical signals passing through the fiber utilizing local detection technology.

The feature and benefits are:

Features:

- Wide dynamic range
- · No Head changing or adjustments
- LCD screen adoption
 - (Detection Light Level, Modulation Light Frequency, Machinery Information)
- · Detects the signal without disrupting traffic
- Detects the tone signal and traffic signal
- Lighted LED displays for clear identification
- · Lightweight design for easy handling
- Super low insertion loss
- RoHS Compliant.

Example of Application:



Standard Components:

| Item | Code | Note |
|---------------|-----------|---|
| Main Unit | Al02H | Battery and Strap and Instruction manual are included |
| Carrying Case | AI02H-001 | Easily to belt or tool pouch |

| Applicable Fiber | | Up to SM 12-fiber ribbon SM 250 μm single fiber | Up to 3 mm Cordage SM 900 μm tight (built-in only SM 250 μm single fiber) (Reference va | | |
|---|---------|--|---|---------|--|
| Applicable Wavelength | | 900~1700 nm | | | |
| Frequency for Tone Signal | | 270Hz and 1kHz and 2kHz (Duty ratio 50±10%) Modulation Light No Modulation Light Communication Light that Continued | | | |
| Measurement Range of Optical Power *1 | | 0 ~ -80 dBm | | | |
| Maximum Level of | 1310 nm | 0.1 dB | 0.5 dB | | |
| Insertion Loss | 1550 nm | 1.0 dB | 2.0 dB | | |
| (Typical) | 1650 nm | 2.5 dB | 3.0 dB | | |
| Average Minimum | 1310 nm | -40 dBm | -30 dBm | | |
| Detection Level *2 | 1550 nm | -50 dBm | -40 dBm | -15 dBm | |
| (Typical) | 1650 nm | -50 06111 | -40 dBIII | | |
| Indication for Traffic Signal or Tone Signal | | [Traffic Signal *3] Direction LED illuminates + Intermittent buzzer sound + Displayed an Optical power measurement range by LCD [Tone Signal] Direction LED illuminates + Tone LED illuminates + Continuous buzzer sound + Displayed an Optical power measurement range by LCD + Displayed Frequency by LCD | | | |
| Operating Time | | 8 hours (Using alkaline battery) | | | |
| Dimensions | | 40 W×65 D×153 H mm | | | |
| Weight | | 160 g (Including battery) | | | |

^{*1:} Duty ratio 50% *2: This specification is based on our optical fiber with our test method. *3: 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 Hand-Held Light Source



Features:

- 4 Wavelength Lineup 1310 nm/1490 nm/1550 nm/1610 nm
- Boost Function Activating the BOOST function increases the output signal by 10dB
- Selection of 4 frequencies CW/270 Hz/1 kHz/2 kHz
- · Lightweight design for easy handling
- · Operate more than 60 hours on battery With Alkaline battery at 23 $^{\circ}$ C / Without using boost function
- Removable Adapter For Easy Cleaning
- RoHS Compliant

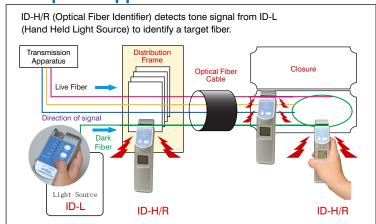
CLASS1 LASER PRODUCT



Optional Accessories:

| Item | Code | Note |
|---------------|-----------|--------------------|
| Carrying Case | AT03H-001 | _ |
| SC Adapter | AT03H-002 | Standard Accessory |
| FC Adapter | AT03H-003 | _ |

Example of Application:



FITEL

| Product name | ID-L Handy Light Source 1310nm | ID-L Handy Light Source 1490nm | ID-L Handy Light Source 1550nm | ID-L Handy Light Source 1610nm |
|--------------------|--|-----------------------------------|-----------------------------------|-----------------------------------|
| Code | AT03H31 | AT03H49 | AT03H55 | AT03H61 |
| Wavelength | 1310±10 nm | 1490±10 nm | 1550±10 nm | 1610±10 nm |
| Fiber type | Single Mode Fiber | | | |
| Spectrum width | Less than 1nm (-20 dB from peak power) | | | |
| Modulation | CW / 270Hz / 1 kHz / 2 kHz | | | |
| Output power | Normal: -2.5±2 dBm Boost: +7.5±2 dBm (3 dB down at 270 Hz,1 kHz, 2 kHz mode) | | | |
| Stability | ±0.05 dB (1 hour / Constant temperature)* | | | |
| Optical connector | SC Adapter (FC adapter is option) | | | |
| Battery type | AA Battery (Alkaline / Zinc-carbon / NiMH) | | | |
| Battery life | Over 60 hours (Alkaline battery at 23° C) | | | |
| Auto shutdown | 10 minutes without any operation | | | |
| Operating temp. | 0 to 40° C | | | |
| Operating humidity | 20 to 90% RH (non-condensing) | | | |
| Dimensions | 70 W×22.5 D×128 H mm | | | |
| Weight | 160 g (Including batteries) | | | |
| Accessories | Strap: 1 AA alkaline batteries: 2 SC adapter: 1 Instruction manual: 1 | | | |

LBT-101 Short Range Optical Tester



Measurement Tool for Live Fiber testing of FTTX. 1610 nm OTDR for short Distance testing with Built-in Optical Filter.

Live Fiber Testing

1610 nm light source and built-in Optical Filter realized the test of live fiber of PON system! First in the industry!

Key Features:

Live Fiber Testing *1

Enabled live fiber testing by launching 1610 nm wavelength, (1310 nm/ 1490 nm/1550 nm).

Portable

LBT-101 is a lightweight, handheld, user-friendly tool. Easily held in one hand.

Easy Operation

Just pressing "START" button and it will start. Easy to operate for less experienced user.

High Resolution

5 cm distance resolution. 2m dead zone.

Built-in Fiber

Measurable from the first connector.

Real Time Sweeping

Real time sweeping to identify target fiber.

Data Storage

Internal data storage is 40 MB (up to 800 traces). Also supported by external USB memory.

*1 : The confirmation that there is no influence on the actual communication system is necessary.



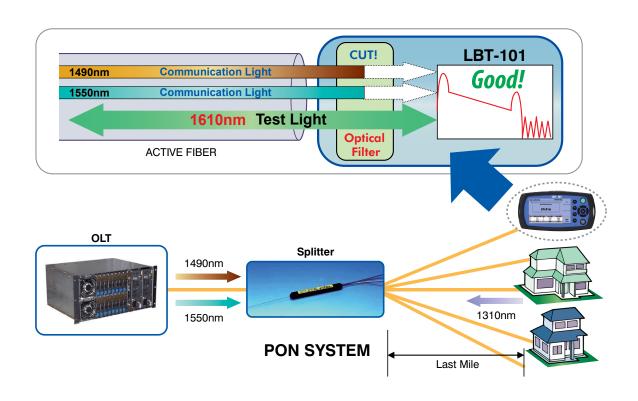
Wide Screen

Full color 4.3" wide screen, which provides high visibility, both indoor and outdoor.

Long Battery Life

Typically 3.5 hours by single charge.

RoHS compliant



Specifications:

| Wavelength*1 | $1610 \pm 5 \text{ nm}$ |
|--------------------------|--|
| Fiber Type | 10/125 μm SMF (ITU-T G.652) |
| Built-in Fiber | 10m |
| Distance Range *2 | 1.0 km (3,000 ft) or 2.5 km (8,000 ft) set automatically |
| Pulse width | 15 ± 3ns |
| Dynamic Range | > 6dB |
| Deadzone | Fresnel: <2 m *3, Backscatter: < 7 m *4 |
| Data Storage | Internal memory: 40 MB (up to 800 traces), External (USB): up to 20,000 traces with 1 GB |
| Dimensions | 190 W × 96 H × 48 D mm (7.5" × 3.8" × 1.9") |
| Weight | < 800 g (< 2 lbs) |
| Display | 4.3 inch TFT-LCD (480 $	imes$ 272, with backlight, transparent type) |
| Interface | USB 1.1, Type A \times 1 (memory), Type Mini-B \times 1 (USB mass storage) |
| Power Supply | 9 VDC, 100 to 240 VAC, Allowable input voltage: 80 to 264 V, 50/60 Hz |
| Battery | NiMH, Operating Time: 3.5 hours (typical) *5, Recharge Time: < 3 hours *6 |
| | Operation: 0° to +50° C, < 80% (non-condensing) ⁻⁷ , Storage: -20° to +60° C |
| Environmental Conditions | Vibration: MIL-T28800E Class 3, Dust and Drip proof: IP 51 |
| EMC | EN61326 |
| Laser Safety | IEC Pub 60825-1: 2001 Class 1 |
| | |

- *1: @25° C
- *2: Averaging: 10 seconds, SNR=1, 25° C
- *3: Return loss 45 dB, Deviation ± 0.5 dB, 25° C
- *4: Return loss: 45 dB, 25° C (1.5 dB down from the peak of Fresnel)
- *5: back light low, sweeping halted at 25° C
- *6: 10 to +30° C, Power OFF *7: 10 to +30° C (During Recharging battery, Power OFF)

IEC 60825-1 2001 **CLASS 1 LASER PRODUCT**

This product complies with 21 CFR 1040.10 and 1040.11 except for deviations pursuant to laser notice NO. 50 DATED JULY 26 2001

Standard Package:

| P/N | Code | Note |
|--------------|---------|--------------------|
| Main Unit | LBT-101 | |
| AC Adapter | _ | Standard Accessory |
| Battery Pack | _ | Standard Accessory |

CS201 Cable Sheath Strippers

The need for fast Mid-Span Access to the fiber cable core is very important for the rapid growing FTTX market. The CS201 is a tool which can perform mid span sheath stripping reliably, easily, and safely.

Features:

- · Accurately removes the sheath of a cable without damaging the fiber
- Can be used for making circular and lateral cuts in the cable
- Blade is designed for safety
- Small and lightweight design

Circular cut in cable



Lateral cut along the cable





Specifications:

| Applicable cable diameter | Ø10~32mm |
|------------------------------|---|
| Applicable cable jacket type | Polyethylene Jacket, Laminated Aluminum Polyethylene Jacket. (Jacket Thickness : Less than 4mm) |
| Weight | Approx. 200g |
| Dimensions | Approx. 90W×38D×52H mm |
| Change blade (Option) | Specify as CS202 |

Sheath Removing Instructions:

STEP 1 : Use PVC tape to mark the section of Jacket be removed



STEP 4: Cut around the cable at the both ends (Circular)



STEP 2: Attach the CS201 to the cable.



STEP 5 : Strip the sheath off



STEP 3 : Cut the cable laterally between the marked position.



STEP 6: Pull the fiber out





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