

100S

Core alignment fusion splicer

FEATURES

- Simultaneous fibre preparation—stripping, cleaving & placement in the splicer—create a smooth workflow and speeds up the splice process time by 20%.
- Adjustable colour touch screen customisable automated features and new fibre guides.
- Active Fusion Control and Active Blade Management technologies.



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| FIBRE ALIGNMENT METHOD | Active core alignment |
| SPLICEABLE FIBRE COUNT | Single-fibre |
| FIBRE TYPE | Single-mode and multi-mode optical fibre |
| CLADDING DIAMETER ¹ | 80µm - 150µm |
| SHEATH CLAMP COATING | 3000µm maximum coating diameter |
| SHEATH CLAMP CLEAVE LENGTH ¹ | 5mm - 16mm |
| ITU-T G.652 SPLICE LOSS ² | Avg. 0.02dB |
| ITU-T G.651 SPLICE LOSS ² | Avg. 0.01dB |
| ITU-T G.653 SPLICE LOSS ² | Avg. 0.04dB |
| ITU-T G.654 SPLICE LOSS ² | Avg. 0.04dB |
| ITU-T G.655 SPLICE LOSS ² | Avg. 0.04dB |
| ITU-T G.657 SPLICE LOSS ² | Avg. 0.02dB |
| SM FAST MODE SPLICE TIME ³ | Avg. 7 to 9 seconds |
| SM AUTO MODE SPLICE TIME ³ | Avg. 11 to 13 seconds |
| AUTO MODE SPLICE TIME | Avg. 14 to 16 second |
| PROTECTION SLEEVE TYPE | Heat-shrinkable sleeve |
| SLEEVE LENGTH | Max. 66mm |
| SLEEVE DIAMETER | Max. 6mm before shrinking |
| 60MM SLIM MODE HEAT TIME ⁴ | Avg. 8 to 10 seconds |
| 60MM MODE HEAT TIME ⁴ | Avg. 13 to 15 seconds |
| FIBRE TENSILE TEST FORCE | Approx. 2.0N |
| ELECTRODE LIFE ⁵ | Approx. 5,000 splices |
| WIDTH | 155mm without projection |
| DEPTH | 176mm without projection |
| HEIGHT | 171mm without projection |
| WEIGHT | Approx. 2.8kg including battery |
| OPERATING TEMPERATURE | -10 to 50°C |
| STORAGE TEMPERATURE | -40 to 80°C |
| OPERATING & STORAGE HUMIDITY | 0 to 95% RH non-condensing |
| OPERATING ALTITUDE | Max. 5000m |
| AC ADAPTOR INPUT | AC100 to 240V, 50/60Hz, Max. 1.5A |
| AC ADAPTOR OUTPUT | Approx. DC 12V, Max. 7A |
| DC ADAPTOR INPUT | DC10 to 15V, Max. 7A |
| BATTERY TYPE | Rechargeable lithium-ion |
| BATTERY OUTPUT | Approx. DC14.4V, 6,380mAh |

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| BATTERY CAPACITY ⁶ | Approx. 300 splice and heat cycles |
| BATTERY LIFE ⁷ | Approx. 500 recharge cycles |
| BATTERY RECHARGE TEMPERATURE RANGE | 0 to 40°C |
| BATTERY OPERATING TEMPERATURE RANGE | -10°C to 50°C |
| BATTERY STORAGE TEMPERATURE <1YR | -20°C to 20°C |
| BATTERY STORAGE TEMPERATURE <3MTH | -20°C to 40°C |
| BATTERY STORAGE TEMPERATURE <1MTH | -20°C to 50°C |
| LCD DISPLAY | 4.95-inch colour TFT touch screen |
| DISPLAY MAGNIFICATION | Approx. 320x |
| V-GROOVE ILLUMINATION | LED lamp |
| PC INTERFACE | USB C (with power delivery) |
| EXTERNAL LED LAMP INTERFACE | USB 2.0 A connector Approx. DC5V, 500mA |
| RIBBON STRIPPER | Mini DIN 6-pin DC12V, Max 1A |
| WIRELESS CONNECTIVITY ⁸ | Bluetooth® 5.2 LE |
| SPLICE MODE DATA STORAGE | 100 splice modes |
| HEAT MODE DATA STORAGE | 30 heat modes |
| SPLICE RESULT DATA STORAGE | 20,000 splices |
| SPLICE IMAGE DATA STORAGE | 100 images |
| TRIPOD SCREW HOLE | 1/4-20UNC |
| AUTOMATIC FUNCTIONS | Splice mode select by fibre type analysis, fusion control, wind protector open/close, sheath clamp open, splice start heater lid open/close, heater clamp open/close, heater start |
| SPECIAL SPLICE | Attenuation splice |
| GPS | Record splice location in the splicer |

¹ Cleave length range depending on fiber type 5mm to 16mm: 125µm cladding diameter and 250µm coating diameter 10mm to 16mm: 125µm cladding diameter and 400 or 500µm coating diameter 5mm to 10mm: 80µm cladding diameter and 160µm coating diameter 5mm to 16mm: 150µm cladding diameter and 250µm coating diameter

² Measured with a cut-back method relevant to ITU-T and IEC standard after splicing Fujikura identical fibers. The average splice loss changes depending on the environmental condition and fiber characteristics.

³ Measured at room temperature. The definition of splice time is from the fiber image appearing on LCD monitor to the estimated loss displayed. The average splice time changes depending on the environmental conditions, fiber type, and fiber characteristics.

⁴ Measured at room temperature with the AC adapter. The heat time is defined from the start beep sound to the finish beep sound. The average heat time changes depending on the environmental conditions, sleeve type and battery pack condition.

⁵ The electrode life changes depending on the environmental conditions, fiber type and splice modes.

⁶ Test condition [1] Splice and heat time: 1 minute cycle [2] Using the splicer power save settings [3] Using a healthy battery [4] At room temperature The battery capacity changes when testing with different conditions from the above.

⁷ The battery capacity decreases to a half after approx. 500 discharge and recharge cycles. The battery life is shortened further when using outside of the storage temperature range, operating temperature range, if completely discharged by storing for a long time without recharging.

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