DATA SHEET

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.

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 t0 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

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	Attentuation 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 900µm 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.

[8] Bluetooth® mark and logos are the registered trademarks of Bluetooth SIG, Inc.

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ACTIVE FUSION CONTROL TECHNOLOGY

ACTIVE BLADE MANAGEMENT TECHNOLOGY

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