

45S

Active cladding alignment fusion splicer

FEATURES

- Dual fibre preparation.
- Small, light, portable.
- 30% faster than our previous model.
- Every splice optimised with Active Fusion Control and Active Blade Management Technology.



FIBRE ALIGNMENT METHOD	Active clad alignment
SPLICEABLE FIBRE COUNT	Single-fibre
FIBRE TYPE	Single-mode and multi-mode optical fibre
CLADDING DIAMETER	Approx. 125µm
SHEATH CLAMP COATING DIAMETER	Max. 3000µm
SHEATH CLAMP CLEAVE LENGTH ¹	5 to 16mm
ITU-T G.652 SPLICE LOSS ²	Avg. 0.03dB
ITU-T G.651 SPLICE LOSS ²	Avg. 0.01dB
ITU-T G.653 SPLICE LOSS ²	Avg. 0.05dB
ITU-T G.655 SPLICE LOSS ²	Avg. 0.05dB
ITU-T G.657 SPLICE LOSS ²	Avg. 0.03dB
SM FAST MODE SPLICE TIME ³	Avg. 6 to 7 seconds
PROTECTION SLEEVE TYPE	Heat-shrinkable sleeve
SLEEVE LENGTH	Max. 66mm
SLEEVE DIAMETER	Max. 6mm before shrinking
60MM MODE HEAT TIME ⁴	Avg. 15 to 22 seconds
60MM MODE SLIM HEAT TIME ⁴	Avg. 15 to 17 seconds
FIBRE TENSILE TEST FORCE	Approx. 2.0N
ELECTRODE LIFE ⁵	Approx. 6,000 splices
WIDTH	131mm without projection
DEPTH	123mm without projection
HEIGHT	121mm without projection
WEIGHT	1.4kg including battery
OPERATING TEMPERATURE	-10°C to 50°C
STORAGE TEMPERATURE	-40°C to 80°C
OPERATING HUMIDITY	0 to 95% RH non-condensing
STORAGE HUMIDITY	0 to 95% RH non-condensing
OPERATING ALTITUDE	Max. 5000m
AC ADAPTOR INPUT	AC100 to 240V, 50/60Hz, Max. 1A
BATTERY TYPE	Rechargeable lithium ion
BATTERY OUTPUT	Approx. DC14.4V, 3190mAh
BATTERY CAPACITY ⁶	Up to 230 splice/heat cycles (60mm slim mode)
BATTERY RECHARGE TEMPERATURE	0°C to 40°C
BATTERY STORAGE TEMPERATURE	-20°C to 30°C
BATTERY LIFE ⁷	Approx. 500 recharge cycles

LCD DISPLAY	Adjustable 4.95-inch colour TFT touch screen
DISPLAY MAGNIFICATION	Approx. 132 to 300x
V-GROOVE ILLUMINATION	LED lamp
PC INTERFACE	USB 2.0 Mini B type
EXTERNAL LED LAMP INTERFACE	USB 2.0 A type, approx. DC5V, 500mA
WIRELESS CONNECTIVITY ⁸	Bluetooth® 5.2
SPLICE MODE DATA STORAGE	100 modes
HEAT MODE DATA STORAGE	30 modes
SPLICE RESULT STORAGE	20,000 splices
SPLICE IMAGE DATA STORAGE	100 images
TRIPOD SCREW HOLE	1/4-20UNC

¹ Cleave length range depending on fibre type: 5 to 16mm: 125µm cladding diameter and 250µm coating diameter. 10 to 16mm: 125µm cladding diameter and 400 or 900µm coating dia.

² Measured with a cut-back method after splicing the same type of fibre. The average splice loss changes depending on the environmental condition and fibre characteristics.

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

⁴ Measured at room temperature with the AC adaptor. 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. In addition, since the heating operation is constantly optimised, the average heating time changes depending on the usage conditions of the fusion splicer.

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

⁶ Test condition [1] Splice and heat time: 1 minute cycle. [2] Using the splicer power save settings, subject to our testing condition. [3] Using a non-degraded 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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