

DATA SHEET

F Fujikura

90S+ Core alignment fusion splicer

FEATURES

- Automatic features make splicing fast and convenient.
- Adjustable colour touch screen & tool-free electrode replacement.
- Every splice optimised with Active Fusion Control and Active Blade Management Technology.



FIBRE ALIGNMENT METHOD	Active core alignment
SPLICABLE FIBRE COUNT	Single-fibre
FIBRE TYPE	Single-mode and multi-mode optical fibre
CLADDING DIAMETER	80µm - 150µm
SHEATH CLAMP COATING	3000µm maximum coating diameter
SHEATH CLAMP CLEAVE LENGTH¹	5mm - 16mm
ITU-T G.652 SPLICE LOSS²	Avg. 0.02dB
ITU-T G.651 SPLICE LOSS²	Avg. 0.01dB
ITU-T G.653 SPLICE LOSS²	Avg. 0.04dB
ITU-T G.655 SPLICE LOSS²	Avg. 0.04dB
ITU-T G.657 SPLICE LOSS²	Avg. 0.02dB
SM FAST MODE SPLICE TIME³	Avg. 7 to 9 seconds
PROTECTION SLEEVE TYPE	Heat-shrinkable sleeve
SLEEVE LENGTH	Max. 66mm
SLEEVE DIAMETER	Max. 6mm before shrinking
60MM SLIM MODE HEAT TIME⁴	Avg. 9 to 10 seconds
60MM MODE HEAT TIME⁴	Avg. 13 to 15 seconds
FIBRE TENSILE TEST FORCE	Approx. 2.0N
ELECTRODE LIFE⁵	Approx. 5,000 splices
WIDTH	Approx. 170mm without projection
DEPTH	Approx. 173mm without projection
HEIGHT	Approx. 150mm without projection
WEIGHT	Approx. 2.8kg including battery
OPERATING TEMPERATURE	-10 to 50°C
STORAGE TEMPERATURE	-40 to 80°C
OPERATING HUMIDITY	0 to 95% RH non-condensing
OPERATING ALTITUDE	Max. 5000m
AC ADAPTOR INPUT	AC100 to 240V, 50/60Hz, Max. 1.5A
BATTERY TYPE	Rechargeable lithium-ion
BATTERY OUTPUT	Approx. DC14.4V, 6,380mAh
BATTERY CAPACITY⁶	Approx. 300 splice and heat cycles
BATTERY RECHARGE TEMPERATURE RANGE	0 to 40°C
BATTERY STORAGE TEMPERATURE	-20 to 30°C
BATTERY LIFE⁷	Approx. 500 recharge cycles
LCD DISPLAY	4.9-inch colour TFT touch screen

DISPLAY MAGNIFICATION	Approx. 200x - 320x
V-GROOVE ILLUMINATION	LED lamp
PC INTERFACE	USB 2.0 Mini B connector
EXTERNAL LED LAMP INTERFACE	USB 2.0 A connector Approx. DC5V, 500mA
WIRELESS CONNECTIVITY⁸	Bluetooth® 4.1 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

¹Cleave 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

²Measured 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.

³Measured 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.

⁴Measured 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.

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

⁶Test 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.

⁷The 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.

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

ACTIVE FUSION
CONTROL TECHNOLOGY



ACTIVE BLADE
MANAGEMENT TECHNOLOGY