

# 90R

## Mass fusion splicer

### FEATURES

- Class-leading 12 and 16-fibre ribbon splicing technology
- Splices single-fibres, standard encapsulated ribbons, and SpiderWeb Ribbon® fibres
- User replaceable V-grooves



FIBRE ALIGNMENT METHOD	Cladding alignment
SPLICEABLE FIBRE COUNT	12 and 16-fibre ribbon
FIBRE TYPE	Single-mode and multi-mode optical fibre
CLADDING DIAMETER	Approx. 125µm
APPLICABLE COATING SHAPE	Refer to options
APPLICABLE COATING CLEAVE LENGTH	10mm
ITU-T G.652 SPLICE LOSS <sup>1</sup>	Avg. 0.05dB
ITU-T G.651 SPLICE LOSS <sup>1</sup>	Avg. 0.02dB
ITU-T G.653 SPLICE LOSS <sup>1</sup>	Avg. 0.08dB
ITU-T G.655 SPLICE LOSS <sup>1</sup>	Avg. 0.08dB
ITU-T G.657 SPLICE LOSS <sup>1</sup>	Avg. 0.05dB
SM FAST MODE SPLICE TIME <sup>2</sup>	Avg. 14 to 15 seconds
AUTO MODE SPLICE TIME <sup>2</sup>	Avg. 19 to 20 seconds
PROTECTION SLEEVE TYPE	Heat-shrinkable sleeve
SLEEVE LENGTH	Max. 66mm
SLEEVE DIAMETER	Max. 6mm before shrinking
40MM FP-05 MODE HEAT TIME <sup>3</sup>	Avg. 36 to 40 seconds
40MM FP-04 MODE HEAT TIME <sup>3</sup>	Avg. 17 to 19 seconds
SINGLE 40MM MODE HEAT TIME <sup>3</sup>	Avg. 14 to 16 seconds
SINGLE 60MM MODE HEAT TIME <sup>3</sup>	Avg. 13 to 15 seconds
FIBRE TENSILE TEST FORCE	Approx. 2.0N
ELECTRODE LIFE <sup>4</sup>	Approx. 1,500 splices
DIMENSIONS	170mm [W] X 173mm [D] x 150mm [H]
WEIGHT	Approx. 2.6kg 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. 3700m
AC ADAPTOR INPUT	AC100 to 240V, 50/60Hz, Max. 1.5A
BATTERY TYPE	Rechargeable lithium-ion
BATTERY OUTPUT	Approx. DC14.4V, 6,380mAh
BATTERY CAPACITY <sup>5</sup>	Approx. 164 splice and heat cycles
BATTERY RECHARGE TEMPERATURE RANGE	0 to 30°C
BATTERY STORAGE TEMPERATURE	-20 to 30°C
BATTERY LIFE <sup>6</sup>	Approx. 500 recharge cycles

LCD DISPLAY	4.9-inch colour TFT touch screen
DISPLAY MAGNIFICATION	Approx. 20X (12 ribbon) to 60X (single)
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
RIBBON STRIPPER INTERFACE	Mini DIN 6 pin DC12V, Max. 1A
WIRELESS CONNECTIVITY <sup>7</sup>	Bluetooth® 4.1 LE
SPLICE MODE DATA STORAGE	100 splice modes
HEAT MODE DATA STORAGE	30 heat modes
SPLICE RESULT DATA STORAGE	10,000 splices
SPLICE IMAGE DATA STORAGE	100 images
TRIPOD SCREW HOLE	1/4-20UNC

<sup>1</sup> Measured with a cut-back method relevant to ITU-T and IEC standard after splicing Fujikura identical fibres. The average splice loss changes depending on the environmental condition and fibre characteristics.

<sup>2</sup> Measured at room temperature. The definition of splice time is from the fibre image appearing on LCD monitor to the estimated loss displayed. The average splice time changes depending on the environmental conditions, fibre type, and fibre characteristics.

<sup>3</sup> 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.

<sup>4</sup> The electrode life changes depending on the environmental conditions, fibre type and splice modes.

<sup>5</sup> 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.

<sup>6</sup> 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.

<sup>7</sup> Bluetooth® mark and logos are the registered trademarks of Bluetooth SIG, Inc.

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