## Get a quote, request a demo, or find out more:

## **F**Fujikura

Email sales@fujikura.co.uk

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**45S** Active cladding alignment splicer

## THE 45S IS THE ESSENTIAL TOOL FOR FTTH ENGINEERS

- Dual fibre preparation
- Small, light, portable

HEET

- 30% faster than our previous model
- Every splice optimised with Active Fusion Control and Active Blade Management Technology



' 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.

<sup>2</sup> 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.
<sup>3</sup> 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.

<sup>4</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. In addition, since the heating operation is constantly optimised, the average heating time changes depending on the usage conditions of the fusion splice.

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

<sup>6</sup>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.

<sup>1</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.

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## fujikura.co.uk sales@fujikura.co.uk



	Ca
+44 (0)208 240 2000	(sales
+44 (0)208 240 2020 (service/sup	oport

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 <sup>1</sup>	5 to 16mm	
ITU-T G.652 SPLICE LOSS <sup>2</sup>	Avg. 0.03dB	
ITU-T G.651 SPLICE LOSS <sup>2</sup>	Avg. 0.01dB	
ITU-T G.653 SPLICE LOSS <sup>2</sup>	Avg. 0.05dB	
ITU-T G.655 SPLICE LOSS <sup>2</sup>	Avg. 0.05dB	
ITU-T G.657 SPLICE LOSS <sup>2</sup>	Avg. 0.03dB	
SM FAST MODE SPLICE TIME <sup>3</sup>	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 <sup>4</sup>	Avg. 15 to 22 seconds	
60MM MODE SLIM HEAT TIME <sup>4</sup>	Avg. 15 to 17 seconds	
FIBRE TENSILE TEST FORCE	Approx. 2.0N	
ELECTRODE LIFE <sup>5</sup>	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 <sup>6</sup>	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 <sup>7</sup>	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 <sup>8</sup>	Bluetooth <sup>®</sup> 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	