

Fibre Optic Automatic Fusion Splicer

The Optronics OPT-FSPL fusion splicer uses a core-to-core profile alignment system to provide the best possible termination of optical fibres. Suitable for use with MM and SM fibres as well as DS, NZDS and EDF. Customers are also able to configure their own programs enabling different fibres to be spliced when necessary. With an average splice time of 8 seconds and a heat shrink time of 40 seconds the OPT-FSPL provides a very fast termination process. Before splicing, the OPT-FSPL will check the end faces of the fibre ensuring the accuracy of the cleave angle in order to provide the optimum splice conditions. In the event of it not being suitable, a warning will be displayed on screen detailing what the problem is enabling the user to rectify it without wasting time. Average splice losses of below 0.02dB for SM and 0.01dB for MM make it suitable for both data and telecoms applications. The estimated loss is displayed on screen after splice operation and recorded in the memory for future information. After splicing, a 2N tension test is automatically carried out when the wind shield is lifted in order to prove the strength of the fused joint. The standard rechargeable battery will ensure a full days work with a life of 200 cycles (splice and heat shrink operation) with a short re-charge time of around 4 hours. The splicer is small and lightweight and is supplied complete in its own hard carry case making it ideal for use in the field.

The standard OPT-FSPL-KIT comprises the fusion splicer, cleave tool, battery and charger, AC power supply, spare electrodes, cooling tray, buffer stripper and hard carry case with strap.

Features & Benefits

- > **Core to Core alignment**
- > **Colour LCD screen**
- > **Simultaneous X and Y views**
- > **Multiple Language**
- > **Result storage**
- > **8 second splice time**
- > **40 second heat shrink time**
- > **Long battery life (200 cycles)**
- > **Dual control panel with reversible monitor**
- > **Illuminated splice area for ease of use in poor light conditions**
- > **Max. wind velocity of 15 m/s**
- > **Max. operating altitude : 5,000 m**

Cleave Tool

The Optronics high precision cleave tool is supplied as standard with the Optronics OPT-FSPL fusion splicer. It is a compact design and is supplied in its own carry case. The 16 position cleave wheel is capable of up to 3000 uses per position giving a total of 48000 cleaves before the wheel needs to be changed. A wrench is supplied in the base of the unit so when the time comes to move the blade to the next position it can be done easily and with little fuss. This is also used to remove the cleave wheel when it needs to be changed. It can be used with both 250um and 900um fibres with a cleave length of 10-20mm.

Fusion Splicer OPT-FSPL-KIT
(INCLUDED)

Precision Cleave Tool
OPT-FSPL-PCT
(INCLUDED)

Technical Specification

Monitor	Colour LCD, x200 magnification, simultaneous display of X and Y axis.
Heater	Internal heat shrink oven
Storage	8000 results
Data Transmission	RS232
Applicable Fibres	SM, MM, DS, NZDS, EDF
Cladding Diameter	100 to 150 µm
Coating Diameter	100 to 1000 µm
Fibre Cleave Length	8-22mm
Splicing Mode	Auto and Manual
Average Splice Loss	0.02dB(SM),0.01dB(MM), 0.04dB(DS), 0.04(NZDS)
Return Loss	>60dB
Operating Temperature	-25 to +50°C
Storage Temperature	-40 to +80°C
Relative Humidity	0 to 95% non condensing
Protection Sleeve Length	20mm – 60mm
Tension Test	2.0N
Language	English,Spanish,French, German, Italian, Chinese,Korean,Russian, Portugese
Power Supply	AC 100-240volt, 50/60Hz, 30W DC 12volt, 25W
Battery	Li-LION 12V 10Ah
Dimensions	170mm (W) x 140mm (H) x 170mm (D)
Weight	3.3kg
Warranty	1 Year

Power Supply Unit
(INCLUDED)

Buffer Stripper OPT-FOS
(INCLUDED)

Electrodes for fusion splicer
OPT-FSPL-ELEC
(INCLUDED)

Ordering Information

DESCRIPTION	PART NO.
Fusion splicer, AC adaptor and power cord, Battery, charger, spare electrodes, cooling tray, precision cleave tool, buffer stripper, carry case	OPT-FSPL-KIT
Precision Cleave Tool	OPT-FSPL-PCT
Battery for fusion splicer	OPT-FSPL-BATT
Electrodes for fusion splicer	OPT-FSPL-ELEC

Training video
available on request