



Transferline Microwave
Engineer's RF Partner

TL600 Series Fusion Splicer

Datasheet



Product Overview

TL600S series ultra-low loss Fusion Splicer make the splicer adaptive to fiber splicing in various environments. Multiple fusion modes and heating modes are available to meet various customers' demands. Fiber loading becomes more convenient and accurate thanks to the ceramic V-groove of high precision, which is easy for clean and maintenance. The splicer is capable of dual-directional fusion. The monitor is a touch screen with GUI for smooth operation. The modular pluggable lithium-ion battery with large-capacity ensures long-time field operations. The auto environmental compensation system greatly improves adaptability of the splicer to extreme environments to ensure your work smoothly and continuously.

Main Characteristics

- **Compact, light weight**
- **7s fast splicing, 18s highly efficient heating**
- **320 times image magnification, 5mm fusion for ultra-short cleave length**
- **Dual-directional fusion, auto fusion, intelligent heat shrink**
- **Built-in modular lithium-ion battery, at least 220 times of splicing and heating**
- **Dust-resistant, water-resistant, shock-resistant**

Technical Specifications

Model	TL600S Optical Fiber Fusion Splicer	TL600 Optical Fiber Fusion Splicer
Motor qty.	6	4
Alignment method	Cladding alignment, Core alignment	
Applicable fibers	Any common optical fibers, rubber-insulated fibers and jumpers that meet requirements of ITU-TG.651~653, ITU-TG.655 and ITU-TG.657.	
Optical fiber diameter	Cladding: 80~150μm, coating layer: 0.1~3mm	
Cleave length	5~16mm (coated optical fiber diameter ≤250μm); 10mm (coated optical fiber diameter: 0.25~3mm)	
Splice loss (typical)	0.02dB (SMF); 0.01dB (MMF); 0.04dB (DSF); 0.04dB (NZDSF)	0.03dB (SMF); 0.02dB (MMF); 0.05dB (DSF); 0.05dB (NZDSF)
Return loss	Better than 60dB	
Splicing time (typical)	7s (Fast mode)	
Heating time (typical)	18s (60mm protection sleeve)	
Tension	1.96~2.25N	
Protection sleeve	60mm, 40mm and a series of protection sleeves	
Graphical display	High-performance 4.3 inch LCD	
Magnification time	320 times/88 times, 700 times	320 times/88 times
Fusion records	10000 groups/64 images	10000 groups
Battery capacity	11.1V, 6800mAh	
Battery operating life	Cycle charging: 300~500 counts, can be replaced by customers	
Electrode operating life	Typical: 4000 counts, can be replaced by customers	
Construction lighting	Built-in lights with high-brightness and wide lighting area	
Working environment	Temp:-10~50°C; Hum: 0~95%RH, height above sea level: 0~6000m	
Operation interfaces	GUI	
External power	AC: 100~240V, 60Hz, 0~1.5A; DC: 10~15V	
Port	USB / SD	
Dimensions	120mm (W)×130mm (H)×154mm (D) (without rubber anti-vibration pad)	
Weight	1.8kg (no battery) 2.1kg (with battery)	1.7kg (no battery) 2.0kg (with battery)

Ordering Information

Main Unit: TL600/TL600S Optical Fiber Fusion Splicer

Standard:

No.	Description	Qty.
1	Fiber fusion splicer host (with one battery)	1
2	Fiber cleaver	1

3	Miller	1
4	AC power cord	1
5	AC power adapter	1
6	Backup motor	1 pair
7	Cooling tray	1
8	Cleaning package	1
9	User Manual	1 copy
10	Multi-functional carrying case	1

Options

No.	Description	Model
1	Lithium-ion battery	BTR-81
2	U disk	C008/4G
3	Power cord of cigarette lighter	DC-72
4	Hanging-type worktable	HST-81

