

TF-1103



The Advanced FTTH Splicer

Active V-groove Alignment

The most affordable full function productivity tool for your FTTx projects



TF-1103 Single Fiber Fusion Splicer

Minimal Splice Loss | Proven Reliability | Easy Splice Operation | Great Splice Efficiency



Less than 1.6kg including battery



Core to Core Alignment



Multi-functional Carry Case

- Excellent for FTTH
- Automatic ARC calibration
- 4.3" High-Resolution Color LCD

- Auto-start splicing
- Portable Active V-groove Splicer
- 300 splices per charge



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Specifications

Items	TF1103	
Optical Fiber Requirements	Material	Silica glass
	Fiber count / Profile types	Single / SMF (G.652 and G.657), MMF (G.651), DSF (G.653), NZDSF (G.655)
	Fiber diameter	Cladding Diameter : 80 μm to 150 μm , Coating Diameter : 100 μm to 1,000 μm
	Cleave length	8mm to 16mm
Standard Performance	Splicer loss (typical) ¹	0.02dB (SM), 0.01dB (MM), 0.04dB (DSF), 0.04dB (NZDS)
	Return loss (typical)	>>60dB
	Splice time (typical)	7sec SM AUTO mode
	Heating time (typical)	25sec (FPS-61-2.6 sleeve)
	Splice & Heat cycles per battery full charge ²	Approx.300
	Fiber view & magnification	2 CMOS cameras observation 300X for X or Y single axis view , 150X for both X & Y dual axis view
	Proof test	1.95 - 2.05N
Programs	Applicable protection sleeve	60mm, 40mm, micro
	Splice programs	Total 60 splice modes
Functions	Heating programs	From 1s to 240s
	Splice data storage	Last 8,000 splice data
	Splice loss estimate	Based upon dual camera core axis alignment data
	Universal clamps	Provided , Bare fiber, Pigtailed, Patch cords
	Automatic heaters	No
	Automatic arc calibration	Automatically compensates for environmental condition changes
	Display remaining power	Provided (Battery mode)
	Lighting	High brightness white LED
	Power saving mode	Provided
	Size	Size
Weight		1.6kg with battery
Monitor		4.3" screen color LCD display
Terminals	USB port	USB 2.0
	Power interface	Charger port
Power supply	AC input	100-240V, 50/60Hz
	DC input	13.5V/4.5A
	Battery	Li-ion 11.1V, 5200mAh
Operating condition	Altitude : 0 to 5,000m above sea level, Wind : 15m/sec Temperature : -10 to 50°C, Humidity : 0 to 95%RH, non-dew	
Storage condition	Temperature : -40 to 80°C, Humidity : 0 to 95%RH, non-dew , Battery : -20 to 30°C	
Electrode life³	5000 splices	
Software updates	USB port	

1 : Average value of the final inspection in the room temperature (22°C) with SMF (G.652) fiber . Measured by cut-back method relevant to ITU-T and IEC standards .
2 : Splice & Heat cycles may depending on the battery status and the operating environment .
3 : Achieved in lab condition . Electrode life may depending on the operating environment .

Environmental Durability*

	Test details
Water resistance	Equivalent to IPx2 (Operates normally after being exposed to water dripping at 3mm/min . for at least 2.5min on each of 4 surfaces tilted at 15°)
Dust resistance	Equivalent to IP5x (Operates normally after 8 hours in a test chamber with circulating dust particles smaller than 75 μm)
Shock resistance	Drop from 75cm on 5 faces (including top face)

* Confirms the battery operation in tests carried out . Does not guarantee that the product is free of faults or damage

Accessories

Part name	Part No.	Remarks
Cleaning brush	EVG-01	Brush cleaning V-groove
Battery	EM-06	Li-ion 11.1V, 5200mAh
Handheld fiber cleaver	TF1201	Automatic fiber cleaver
	TF1202	Two step fiber cleaver
Electrode	ER-30	//
Loose tube cutter	EM-021	//

Standard Package

Part name	Part No.	Qty.
Fusion Splicer	TF1103	1 pc
Fiber Cleaver	TF1202	1 pc
Jacket Stripper	SMF-30	1 pc
AC adapter	AC-178S	1 pc
AC power cord	AC-PCS	1 pc
Spare electrodes	ER-30	1 pair
Cooling Tray	//	1 pc
Alcohol pot	//	1 pc
Dust blowing ball	//	1 pc
Instruction manual (CD)	//	1 pc
Carrying case	MS-50	1 pc
Drop cable stripper	MFI-50	1 pc

Note: At least , The above standard package come with splicer main body.



Fiber Fusion Splicer
TF1103



Carrying case
MS-50



Automatic fiber cleaver
TF1201



Two step fiber cleaver
TF1202



Jacket stripper
SMF-30



Electrodes
ER-50

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