



Core Alignment fusion splicer

# T-81SE



## Fast, Capable, Practical

Splicing 6s / Heating 12s / Splice loss 0.015dB



Touch optimised  
user interface and  
high resolution display



Proven field  
toughness



Long life battery  
for 300 splice  
& heat cycles

## Specifications

Items		T-81SE
Optical fiber requirements	Material	Silica glass
	Fiber count / Profile types	Single / SMF(G.652), MMF(G.651), DSF(G.653), NZDSF(G.655), BIF(G.657)
	Fiber diameter	Cladding diameter : 80 - 150μm, Coating diameter : 100 - 1,000μm
	Cleave length	5 - 16mm with coating clamp
Standard performance	Splice loss (typical)*1	SMF : 0.015dB, MMF : 0.01dB, DSF : 0.04dB, NZDSF : 0.04dB
	Return loss (typical)	60dB or greater
	Splice time (typical)	6sec(SM G652 Quick Mode), 8sec(Auto Mode)
	Heating time (typical)	12sec (FPS-61-2.6 sleeve, S60mm 0.25 Quick)
	Splice & Heat cycles per battery full charge**2	Approx. 300 (BU-16)
	Fiber view & magnification	2 CMOS cameras observation, 350X (zoom : 700X)
	Proof test	1.96 - 2.09N
	Applicable protection sleeve	60mm, 40mm & Sumitomo Nano sleeves
Programs	Splice programs	Max. 300, 49 are pre-optimised, 251 editable by user
	Heating programs	Max. 100, 27 are pre-optimised, 73 editable by user
Functions	Splice image capture / Splice data storage	200 images / 10,000 splice data (internal memory only) 50,200/20,000 (with 16GB SD card)
	Universal clamps	Provided, 250μm, 900μm tight & loose buffer fiber
	Reversible coating clamps	Provided
	Onboard user training video	Provided
	Automatic fiber identification	SMF / MMF / Other
	Automatic arc calibration	Automatically compensates for environmental condition changes
Size / Weight	Display of remaining Splice & Heat cycles	Provided (Battery mode)
	Size	128(W) x 154(D) x 130(H) mm (without anti-shock rubber)
	Weight	1.7kg (without Battery) / 2.0kg (with Battery BU-16)
	Monitor	5.0" touch screen color LCD display
Terminals	DC output	DC 12V (for JR-6)
	USB port	USB 2.0 (mini-B type)
	Storage media	SD / SDHC memory card MAX32GB
Power supply	AC input	AC 100 - 240V, 50/60Hz (ADC-16)
	DC input	DC 10 - 15V
	Battery pack	Li-ion 10.8V, 6,400mAh (BU-16)
Operating condition		Altitude : 0 - 6,000m, Temperature : -10 - +50°C, Humidity : 0 - 95% (non-condensing), Wind velocity : up to 15m/sec
Storage condition		Temperature : -40 - +80°C, Humidity : 0 - 95% (non-condensing), Battery : -20 - +30°C (long term)
Electrode life **3		6,000 arc discharges
Software updates		Internet
Data management		Can be stored, edited and analyzed by dedicated PC software

\*1 : Average value of the final inspection in room temperature with Sumitomo identical fiber. Measured by cut-back method relevant to ITU-T and IEC standards.

\*2 : Splice & Heat cycles may vary depending on the battery status and the operating environment.

\*3 : Achieved in lab condition. Electrode life may vary depending on the operating environment.

## Environmental Durability\*

	Test details
Shock resistance	Drop from 76cm on 5 faces (excluding top face)
Impact resistance	Equivalent to IK07 on LCD monitor (Protected against 2J impact, it is equivalent to a 500g force from 40cm)
Water resistance	Equivalent to IPx2 (Operates normally after being exposed to water dripping at 3mm/min. for at least 2.5 min 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)

\*Splicer operation after shock, impact, water or dust tests, was confirmed under battery power, by Sumitomo.

Does not guarantee the product will not be damaged by these conditions.

## Basic Accessories

Part name	Part No.	Qty.
AC adapter	ADC-16	1 pc
AC power cord	PC-AC<X>*	1 pc
Cooling tray	—	1 pc
Battery pack	BU-16	1 pc
Spare electrode	ER-10	1 pair
Quick reference guide	—	1 pc
Carrying case with worktable	CC-82	1 pc
Hand strap	—	1 pc
USB cable	—	1 pc

\*X=2(USA), 3(EU), 5(UK/HK), 8(CHINA), 9(INDIA), 10(BRAZIL)

Items listed in the table are typical contents included with the splicer body. Overall kit content may vary regionally. Please check with your local authorised reseller to confirm kit content in your region.

## Accessories

	Part name	Part No.	Remarks
Accessories for Splicer	Fiber holder	FHS-025	For φ0.25mm single fiber
		FHS-09	For φ0.9mm single fiber
		FHS-025/LB5	For 0.9mm loose buffered single fiber
		FHD-1	For indoor / outdoor rectangular drop cable
		1SM-ST	For indoor rectangular drop cable
	Battery pack	FHC-3	For 3mm cable
		BU-16	Li-ion 6,400mAh
Accessories	Battery charger	BC-16	—
	Car battery cable	PCV-16	Vehicle 12V outlet
	V-groove cleaning brush	VGT-2	Brush for cleaning V-groove
	Electrode	ER-10	—
	Handheld fiber cleaver	FC-8R-FC	Auto blade rotation + cleave counter
		FC-8R-F	Auto blade rotation
	Fiber cleaver	FC-6S-C	Table-top high precision cleaver
		FC-6RS-C	Automatic blade rotation cleaver
	Jacket remover	JR-M03	Jacket remover for single fiber
	Loose tube cutter	LTC-01	—
	Alcohol dispenser	HR-3	—
	Fiber protection sleeve	FPS-1	60mm, diameter after shrink approx. φ3.2mm
		FPS-40	40mm, diameter after shrink approx. φ3.2mm
		FPS-61-2.6	61mm, diameter after shrink approx. φ2.6mm



Carrying case with worktable  
CC-82



Handy cleaver  
FC-8R series



Table-top cleaver  
FC-6 / FC-6R series



Jacket remover  
JR-M03



Available for  
Lynx-Custom Fit™  
Splice-On Connector



Electrode  
ER-10

 Sumitomo Electric Industries, Ltd.

Please contact us Mail to : [fs-inquiry-sml@list.sei.jp](mailto:fs-inquiry-sml@list.sei.jp)

■ Specifications are subject to change without prior notice.

Designed in Japan  
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(SEI)