



Direct Core Monitoring fusion splicer

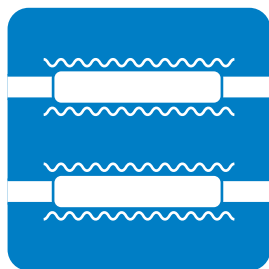
# TYPE-81C



## Rapid, Elite, Connected

Faster Splicing 6sec / Heating 14sec

Splicing loss SMF 0.01dB (Typical)



Fully Optimized  
Two Independent  
Heaters for  
High Productivity



Touch Screen  
Control Panel



Durable & Rugged

## Specifications

Items		TYPE-81C
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), EDF
	Fiber diameter	Cladding diameter : 80 - 150µm, Coating diameter : 100 - 1,000µm
Standard performance	Cleave length	5 - 16mm with coating clamp
	Splice loss (typical)*1	SMF : 0.01dB, MMF : 0.01dB, DSF : 0.03dB, NZDSF : 0.03dB
	Return loss (typical)	60dB or greater
	Splice time (typical)	6sec(SM G652 Quick Mode), 7sec(SM G652 Std. Mode), 8sec(Auto Mode)
	Heating time (typical)	14sec (FPS-61-2.6 sleeve, Slim 60mm Quick Mode)
	Splice & Heat cycles per battery full charge*2	Approx. 230 (BU-11)
	Fiber view & magnification	2 CMOS cameras observation, 320X (zoom : 700X) for X or Y single axis view, 88X for both X & Y dual axis view
Proof test		1.96 - 2.09N
	Applicable protection sleeve	60mm, 40mm & Sumitomo Nano sleeves
Programs	Splice programs	Max. 300, 74 are pre-optimised, 226 editable by user
	Heating programs	Max. 100, 24 are pre-optimised, 76 editable by user
Functions	Splice image capture / Splice data storage	200 images / 10,000 splice data (internal memory only) 50,200/20,000 (with 8GB SD card)
	Attenuation splicing	0.1dB to 15dB in 0.1dB increments
	Universal clamps	Provided, 250µm, 900µm tight & loose buffer fiber
	Reversible coating clamps	Provided
	Dual automatic independent heaters	Provided
	User-selectable heater clamp operation	Provided
	Onboard user training video	Provided
	Automatic fiber identification	SMF / MMF / DSF / NZDSF / BIF / Other
Automatic arc calibration		Automatically compensates for environmental condition changes
	Display of remaining Splice & Heat cycles	Provided (Battery mode)
Size / Weight	Size	120(W) x 154(D) x 130(H) mm (without anti-shock rubber)
	Weight	1.8kg (without Battery) / 2.0kg (with Battery BU-11S) / 2.1kg (with Battery BU-11)
	Monitor	4.1" 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-1430S)
	DC input	DC 10 - 15V
	Battery pack	Li-ion 11.1V, 2,300mAh (BU-11S) / Li-ion 11.1V, 4,600mAh (BU-11)
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)
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 75µm)

\*Splicer operation after shock, 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-1430S	1 pc
AC power cord	PC-AC<X>*	1 pc
Cooling tray	—	1 pc
Spare electrode	ER-10	1 pair
Operating CD manual	—	1 pc
Quick reference guide	—	1 pc
Carrying case with worktable	CC-81	1 pc
Hand strap	—	1 pc
USB cable	—	1 pc

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

Items listed in Basic Accessories are always included with the splicer body. Overall kit content may vary regionally. Please check with your local authorized 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 drop/indoor cable (Cable size : typical 2.0 x 3.1 or 2.6mm)
		1SM-ST	For indoor cable (Cable size : typical 1.6 x 2.0mm)
		FHC-3	For 3mm cable
	Lynx2-UML-S	For φ3mm cord and φ0.9mm single fiber	
	Battery pack	BU-11/11S	Li-ion 4,600mAh BU-11, 2,300mAh BU-11S
	Battery charger	BC-11	—
	Car battery cable	PCV-11	For car battery operation (cigarette socket type)
	V-groove cleaning brush	VGT-2	Brush for cleaning V-groove
	Electrode	ER-10	—
Accessories	Handheld fiber cleaver	FC-8R-FC	Automatic blade rotation cleaver with cleave counter
		FC-8R-F	Automatic blade rotation cleaver
	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-81



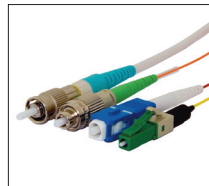
Handy cleaver  
FC-8R series



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.

## Tokyo (Japan)

Sumitomo Electric Industries, Ltd.

<http://global-sei.com/sumitomo-electric-splitters/>

## Bangkok (Thailand)

Sumitomo Electric (Thailand) Ltd.

Tel : +66-2-260-7231 ~5

## Hong Kong

Sumitomo Electric Asia, Ltd.

Tel : +852-2576-0080

## Singapore

Sumitomo Electric  
Asia Pacific Pte. Ltd.

Tel : +65-6261-3388

## Manila (Philippines)

SEI(Philippines) Incorporated

Tel : +63-2-811-2755~56

## Gurgaon (India)

SEI Trading India Pvt. Ltd.

Tel : +91-124-4577470

## San Paulo (Brazil)

SEI Brazil Optical Solutions, Ltda.

TEL : +55-15-3416-7100

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