Direct Core Monitoring Fusion Splicer



Ultra fast splicing in every environment

Specifications

Items		TYPE-81C		
	Material	Silica glass		
	Profile types	SMF (ITU-T G.652), MMF (ITU-T G.651), DSF (ITU-T G.653), NZDSF (ITU-T G.655), BIF (ITU-T G.657), EDF		
Optical fiber requirements	Fiber diameter	Cladding diameter: 80µm~150µm, Coating diameter: 100µm~1,000µm		
requirements	Applicable fiber or cable size	up to φ1,000μm	Drop cable (2.0x3.1mm), Indoor cable (2.0x2.0mm)	
	Cleave length	5~16mm	10mm	
	Splice loss (typical) ※1	SMF: 0.02dB, MMF: 0.01dB, DSF: 0.04dB, NZDSF: 0.04dB		
	Splicing cycle time (typical)	7sec. (Quick mode), 7.5sec. (SMF standard mode), 8sec. (Auto mode)		
Standard performance	Heating cycle time (typical)	28sec.		
	Splice & Heat cycles	Approx. 200		
	Fiber view & magnification	Two CMOS cameras observation, 320X (zoom: 700X) for X or Y single axis view, 88X for both X & Y dual axis view		
Programs	Splicing programs		. 300	
- rograms	Heating programs		. 100	
	Loss estimation		vided	
	Splice image capture / Splice data storage	64 images / 10,000 splice data		
	Proof test	1.96N (200gf)		
	Attenuation splicing	0.1dB to 15dB in 0.1dB increments		
	Universal clamps for 250µm, 900µm tight & loose buffer fiber	Provided		
Functions	Reversible coating clamps	Provided		
	Dual automatic independent heaters	Provided (US patent 7,412,146)		
	User-selectable heater clamp operation Provided			
	Onboard user training video Provided			
	Automatic arc calibration			
	7.10 1001		vided	
	Display of remaining Splice & Heat cycles		Provided (Battery mode)	
	Remote interactive maintenance	Provided (1)		
	Size	120(W) x 154(D) x 130(H) mm (without anti-shock rubber)		
Size / Weight	Weight	1.8kg (without battery), 2.1kg (with battery)		
	Monitor		color LCD display	
Terminals	DC output	DC12 V (for JR-6)		
	USB port	USB 2.0 (mini-B type)		
	Storage media	SD / SDHC memory card		
Power supply	AC input	100~240V, 50 / 60Hz (ADC-1430)		
	DC input	10∼15V Li-ion 11.1V. 4.600 mAh (BU-11)		
	Battery module			
Operating condition	Altitude 0~6,000m, Temperature -10~+50°C, Humidity 0~95% (non-condensing), Wind velocity up to 15m/s			
Storage condition	Temperature -40~+80°C, Humidity 0~95% (non-condensing), Battery -20~+30°C (long term)			
Electrode life	3,000 arc discharges ※3			

*1: When the fibers used are identical to Sumitomo's fibers. *2: Splice & Heat cycles may vary depending on the battery status and the operating environment.

3: 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 dust chamber containing dust of particle size 25µm or below)	

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

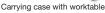
Standard Package

Part name	Part No.	Qty.
Main unit	TYPE-81C	1 pc
Battery module	BU-11	1 pc
Power supply module	ADC-1430	1 pc
Power cord	PC-AC <x></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

Optional Accessories

	Part name	Part No.	Remarks	
Optional for main	Car battery cable	PCV-11	for car battery operation (cigarette socket type)	
T di	Battery Charger	BC-11		
nai	V-groove cleaning brush	VGT-1		
l a	Electorode	ER-10		
l≕ĕ	Fiber holder	FHS-025	for ϕ 0.25mm single fiber	
accessories unit		FHS-09	for φ0.9mm single fiber	
) S.		1SM-D	for drop cable (Cable size: typical 2.0 x 3.1mm)	
Ses		1SM-ST	for indoor cable (Cable size: typical 2.0 x 2.0mm)	
	Handheld fiber cleaver	FC-7R-S	Cleave length 6~20mm (φ0.25mm), 10~20mm (φ0.9mm)	
		FC-7S	Cleave length 6~20mm (φ0.25mm), 10~20mm (φ0.9mm)	
	Fiber cleaver	FC-6S-C	Cleave length 5~16mm (φ0.25mm), 10mm (φ0.9mm)	
		FC-6S-5C	Cleave length 5~16mm (φ0.25mm & φ0.9mm)	
Other		FC-6RS-C	Cleave length 5~16mm (φ0.25mm), 10mm (φ0.9mm)	
		FC-6RS-5C	Cleave length 5~16mm (φ0.25mm & φ0.9mm)	
200	Jacket remover	JR-M03	Jacket remover for single fiber	
accessories	Alcohol dispenser	HR-3		
OS	Fiber protection sleeve	FPS-1	60mm, sleeve diameter after shrink approx.φ3.2mm	
<u> </u>		FPS-40	40mm, sleeve diameter after shrink approx.φ3.2mm	
S		FPS-S-40	40mm, sleeve diameter after shrink approx.φ2.2mm	
		FPS-D60	for drop cable $\&$ indoor cable, 60mm, sleeve diameter after shrink approx. $\phi4.7$ mm	
		FPS-N4-X FPS-N9-X	Available for Sumitomo Nano sleeves for factory and optical component	







Supports bi-directional splicing operation



Drop cable splicing with fiber holder system



Available for Lynx-Custom Fit™ Splice-On Connector





Fiber cleaver FC-7 / FC-7R series FC-6 / FC-6R series



The production process of this product meets ISO 9001.(JQA Certificate Number:JQA-1135)

Tokyo (Japan) Sumitomo Electric Industries, Ltd. (Global Business Department) 3-9-1, Shibaura, Minato-ku, Tokyo, 108-8539 Japan

TEL: +81-3-6722-3246 http://global-sei.com/fttx/

North Carolina (U.S.A)

Sumitomo Electric Lightwave Corp.
78 Alexander Drive, P.O.Box 13445, Research Triangle Park, NC27709
Toll Free No: (800) 358-7378
TEL:+1 (919) 541-8100 http://www.sumitomoelectric.com/

Sumitomo Electric Europe Ltd.
220 Centennial Park, Centennial Avenue, Elstree, Herts. WD6 3SL, U.K.
TEL: +44 (0) 20-8953-8118 http://www.sumielectric.com/

Hong Kong (China) Sumitomo Electric Asia, Ltd. http://www.seac-cn.com

Shenzhen (China) SUMIDEN ASIA (SHENZHEN) Co.,LTD TEL: +86-755-82706880 http://www.seac-cn.com

Beijing (China) SUMIDEN ASIA (SHENZHEN) Co.,LTD. (Beijing Branch)

TEL: +86 10 6590 8196 http://www.seac-cn.com/

Shanghai (China) SUMIDEN ASIA (SHENZHEN) Co.,LTD. (Shanghai Branch)

TEL: +86 21 6235 1036 http://www.seac-cn.com/

Guangzhou (China) SUMIDEN ASIA (SHENZHEN) Co.,LTD. (Guangzhou Branch)
TEL: +86 20 38772808 http://www.seac-cn.com/

Bangkok (Thailand)

Sumitomo Electric (Thailand) Limited

TEL: +66 (0) 2 260 7231 to 5 http://www.set-th.com/

Singapore Sumitomo Electric Interconnect Products (Singapore) Pte.,Ltd.
TEL: +65 6261 3388 http://www.seps.com.sg/

Dubai (U.A.E.) Middle east office TEL: +971 4 701 7338 to 7341

New Delhi (India) New Delhi Liason Office TEL: +91 120 434 7701 to 7702

Manilla (Philippines) SEI (PHILIPPINES) INCORPORATED TEL: +63 2 811 2755 to 2756