# **Direct Core Monitoring Fusion Splicer**



Ultra fast splicing in every environment

### Specifications

Items		Z1C	
	Material	Silica glass	
	Profile types	SMF (JTU-T G.652), MMF (JTU-T G.651), DSF (JTU-T G.653), NZDSF (JTU-T G.655)	
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. 100	
	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	Max	. 300
Fiograms	Heating programs	Max. 100	
	Loss estimation	Prov	vided
	Splice image capture / Splice data storage	64 images / 10,000 splice data	
	Proof test	1.96N (200gf)	
	Attenuation splicing		
	Universal clamps for 250µm, 900µm tight & loose buffer fiber	Provided	
Functions	Reversible coating clamps	Provided	
Tulictions	Dual automatic independent heaters		
	User-selectable heater clamp operation	Provided	
	Onboard user training video	Provided	
	Automatic arc calibration Automatically compensates for environmental condition changes		
	Arc test	Provided	
	Display of remaining Splice & Heat cycles	<del></del>	
	Remote interactive maintenance	-	
	Size		n (without anti-shock rubber)
Size / Weight	Weight		y), 2.0kg (with battery)
	Monitor		color LCD display
	DC output		(for JR-6)
Terminals	USB port		nini-B type)
	Storage media		memory card
Power supply	AC input		60Hz (ADC-1430)
	DC input		~15V
	Battery module		00 mAh (BU-11S)
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	ock 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 75 <sub>u</sub> m 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	Z1C	1 pc
Battery module	BU-11S	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	
<del>2</del> 6	Car battery cable	PCV-11	for car battery operation (cigarette socket type)	
Optional accessories for main unit	Battery charger	BC-11	Available soon	
nal nal	V-groove cleaning brush	VGT-1		
acc	Electorode	ER-10		
ni i	Fiber holder	FHS-025	for φ0.25mm single fiber	
Son.		FHS-09	for φ0.9mm single fiber	
S		1SM-D	for drop cable (Cable size: typical 2.0 x 3.1mm)	
		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)	
Q		FC-6RS-C	Cleave length 5~16mm (φ0.25mm), 10mm (φ0.9mm)	
Other		FC-6RS-5C	Cleave length 5~16mm (φ0.25mm & φ0.9mm)	
	Jacket remover	JR-M03	Jacket remover for single fiber	
accessories	Alcohol dispenser	HR-3		
SSe	Fiber protection sleeve	FPS-1	60mm, sleeve diameter after shrink approx.φ3.2mm	
Š.		FPS-40	40mm, sleeve diameter after shrink approx.φ3.2mm	
ies		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	



Carrying case with worktable



Supports bi-directional splicing operation



Drop cable splicing with fiber holder system



Available for Lynx-Custom Fit™ Splice-On Connector



Jacket remover JR-M03





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/

Sumiton Giochi Sumitono 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/

Wuhan (China) SUMIDEN ASIA (SHENZHEN) Co., LTD. (Wuhan Branch)
TEL: +86 27 8760 6686 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

Gurgaon(India) SEI Trading India Pvt. Ltd. (SETI) TEL:+91-124-4577470

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