



Active Clad Alignment fusion splicer

S1V Ultra

Powered by



NanoTune™
Enhanced splice experience



SumiCloud™



Small, yet smart and strong



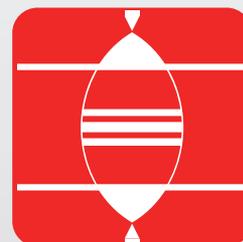
Proven field toughness



High environmental resistance



Smart and easy



Hot Core Analyzing



Compact and light
1.2 kg

Specifications

Items	S1V Ultra	
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 : 125µm, Coating diameter : 250 - 1,000µm
	Cleave length	5 to 16mm for single fiber
Standard performance	Splice loss (typical)*1	SMF : 0.03dB, MMF : 0.01dB, DSF : 0.05dB, NZDSF : 0.05dB
	Return loss (typical)	60dB or greater
	Splice time (typical)	6sec (SM G652 Quick Mode)
	Heating time (typical)	12sec (FPS-61-2.6 sleeve, S60mm 0.25 Quick Mode)
	Splice & Heat cycles per battery full charge*2	Approx. 250 (BU-17)
	Fiber view & magnification	2 CMOS cameras observation, 180X (zoom 370X) for X and Y axis view.
	Proof test	1.96 - 2.09N
	Applicable protection sleeve	60mm, 40mm & Sumitomo Nano sleeves
Programs	Splice programs	Max. 300, 16 are pre-optimised, 284 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)
	Auto-start	Splice/Heating
	Multi clamp	Provided, 250µm, 900µm tight & loose buffer fiber, 2 & 3mm jacket cord and rectangular drop cable, 3.5mm round drop cable
	Heater clamp for splice on connector	Provided
	Automatic arc calibration	Automatically compensates for environmental condition changes
	Core loss estimation	Provided, HCA : Hot Core Analyzing
	Wireless LAN connectivity (Option)*3	Provided
Size / Weight	Size	126(W) x 154(D) x 83(H) mm (without protrusion)
	Weight	0.9kg (without Battery), 1.2kg (with Battery BU-17)
	Monitor	4.3" color LCD display
	USB port	USB 2.0 (mini-B type)
Terminals	Storage media	SD / SDHC memory card Max 32GB
	AC input	AC 100 - 240V, 50/60Hz (ADC-15)
Power supply	DC input	DC 10 - 15V
	Battery pack	Li-ion 10.8V, 4,560mAh (BU-17)
Operating condition	Altitude : 0 - 5,000m, Temperature : -10 - +50°C, Humidity : 0 - 95%RH (non-condensing), Wind velocity : up to 15m/sec	
Storage condition	Temperature : -40 - +80°C, Humidity : 0 - 95%RH (non-condensing), Battery : -20 - +30°C (long term)	
Electrode life *4	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 : SumiCloud availability / wireless LAN connectivity depends on region. More details: <https://global-sei.com/sumitomo-electric-splicers/products/sumicloud/>

*4 : 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), 4 edges and corners (bottom face only)
Impact resistance	Protected against 2J impact, it is equivalent to a 500g force from 40cm
Water resistance	Equivalent to IPx2
Dust resistance	Equivalent to IP5x

*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-15	1 pc
AC power cord	PC-AC<X>*2P	1 pc
Battery pack	BU-17	1 pc
Quick reference guide	—	1 pc
Carrying case	CC-18	1 pc
Working tray	WT-18 with WSK-18 & TA-18	1 pc

*X=2(USA), 3(EU), 5(UK/HK), 6(AUS), 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 authorized reseller to confirm kit content in your region.

Accessories

	Part name	Part No.	Remarks
Accessories for Splicer	SumiCloud card	WLSD series	For SumiCloud™ connection
	Battery pack	BU-17	Li-ion 10.8V, 4,560mAh
	Battery charger	BC-17	For BU-17
	Car battery cable	PC-V25	For car battery operation (cigarette socket type)
	V-groove cleaning brush	VGT-2	Brush for cleaning V-groove
	Electrode	ER-17	—
	Working tray strap kit	WSK-18	Kit for hanging tray around neck
	Tripod adapter	TA-18	For tripod use
	USB cable	—	—
	Shoulder belt	—	—
Accessories	Fiber cleaver	SFC-S FC-7LS	Table-top type Handheld type
	Jacket remover	JR-M03	Jacket remover for single fiber
	Loose tube cutter	LTC-01	—
	Alcohol dispenser	ASB-17	—
	Fiber protection sleeve	FPS-1	60mm, diameter after shrink approx. 3.2mm
		FPS-40	40mm, diameter after shrink approx. 3.2mm
FPS-61-2.6 FPS-D60		61 mm, diameter after shrink approx. 2.6mm 60mm, For drop and indoor cables	



Carrying case
CC-18



Working tray
WT-18



Working tray strap kit
WSK-18



Tripod adapter
TA-18



Handheld fiber cleaver
FC-7LS

 Sumitomo Electric Industries, Ltd.

Please contact us Mail to : fs-inquiry-sml@list.sei.jp

■ Specifications are subject to change without prior notice.

■ The fusion splicer and related accessories are not IT network equipments.

Designed in Japan
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