



High Definition Core Aligning
fusion splicer

TYPE-Q102-CA+

Powered by



NanoTune™
Enhanced splice experience



SumiCloud™

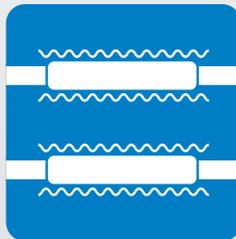


Dependable

Splicing 5s/Heating 8s/Splice loss 0.01dB



Preventive
Maintenance



High Speed Dual
Independent Heaters



Proven Field
Toughness



Extended Battery
Life for 320 Cycles

Specifications

Items		TYPE-Q102-CA+
Optical fibre requirements	Material	Silica glass
	Fiber count / Profile types	Single / SMF(G.652), MMF(G.651), DSF(G.653), NZDSF(G.655), BIF(G.657), CSF(G.654), EDF
	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 : 0.01dB, MMF : 0.01dB, DSF : 0.03dB, NZDSF : 0.03dB
	Return loss (typical)	60dB or greater
	Splice time (typical)	5sec(SM G652 Quick Mode), 7sec(SM G652 Std. Mode), 7sec(Auto Mode)
	Heating time (typical)	8sec (FPS-61-2.6 sleeve, S60mm 0.25 Quick Mode)
	Splice & Heat cycles per battery full charge*2	Approx. 320 (BU-16)
	Fiber view & magnification	2 CMOS cameras observation, 380X (zoom : 760X) for X or Y single axis view, 270X for both X & Y dual axis view
Programs	Proof test	1.96 - 2.09N
	Applicable protection sleeve	60mm, 40mm & Sumitomo Nano sleeves
Functions	Splice programs	Max. 300, 74 are pre-optimized, 226 editable by user
	Heating programs	Max. 100, 27 are pre-optimized, 73 editable by user
Size / Weight	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, 200µm, 900µm tight & loose buffer fiber
	Reversible coating clamps	Provided
	Dual automatic independent ovens	Provided
	User-selectable oven 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)
Terminals	Wireless LAN connectivity (Option)*3	Provided
	Size	128(W) x 154(D) x 130(H) mm (without anti-shock rubber)
	Weight	1.9kg (without Battery) / 2.2kg (with Battery BU-16)
Power supply	Monitor	5.0" touch screen color LCD display
	DC output	DC 12V (for JR-6+)
Operating condition	USB port	USB 2.0 (mini-B type)
	Storage media	SD / SDHC memory card MAX32GB
Storage condition	AC input	AC 100 - 240V, 50/60Hz (ADC-16)
	DC input	DC 10 - 15V
Electrode life *4	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
Software updates	Storage condition	Temperature : -40 - +80°C, Humidity : 0 - 95% (non-condensing), Battery : -20 - +30°C (long term)
	Electrode life *4	6,000 arc discharges
Data management	Software updates	Internet
	Data management	Can be stored, edited and analysed 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 : Wireless LAN connectivity is not available in all countries. For more details, please refer to our Web site. <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)
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 25 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 series	1 pc
AC power cord	PC-AC<X>*	1 pc
Cooling tray	—	1 pc
Spare electrode	ER-10	1 pair
Quick reference guide	—	1 pc
Carrying case with worktable	CC-72	1 pc
Hand strap	—	1 pc
USB cable	—	1 pc

*X=2(USA), 3(EU), 4(JP), 5(UK), 6(AUS), 7(South Africa)

Items listed in Basic Accessories are always 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.

Ordering Information

Part name	Part No.
TYPE-Q102-CAp-KIT-1	TYPE Q102-CA+ Quantum Fusion Splicer Kit includes Fiber Stripper (JR-M03), One Pack of Fiber Protection Sleeves, Shipping Case, one set of Spare Electrodes (ER-10), AC Interface/Battery Charger with Power Cord, Battery Unit (BU-102)
TYPE-Q102-CAp-KIT-2	TYPE Q102-CA+ Quantum Fusion Splicer Kit includes Precision Cleaver (FC-6S-C), Fiber Stripper (JR-M03), One Pack of Fiber Protection Sleeves, Shipping Case, one set of Spare Electrodes (ER-10), AC Interface/Battery Charger with Power Cord, Battery Unit (BU-102)
TYPE-Q102-CAp-KIT-6RSC	TYPE Q102-CA+ Quantum Fusion Splicer Kit includes Precision Cleaver w/ Auto Rotating Blade (FC-6RS-C), Fiber Stripper (JR-M03), One Pack of Fiber Protection Sleeves, Shipping Case, one set of Spare Electrodes (ER-10), AC Interface/Battery Charger with Power Cord, Battery Unit (BU-102)
TYPE-Q102-CAp-KIT-6RSCFH	TYPE Q102-CA+ Quantum Fusion Splicer Kit includes 250um, 900um and Loose Buffer Fiber Holders, Precision Cleaver w/ Auto Rotating Blade (FC-6RS-C), Fiber Stripper (JR-M03), One Pack of Fiber Protection Sleeves, Shipping Case, one set of Spare Electrodes (ER-10), AC Interface/Battery Charger with Power Cord, Battery Unit (BU-102)
TYPE-Q102-CAp-KIT-8R	TYPE Q102-CA+ Quantum Fusion Splicer Kit includes Precision Cleaver w/ Auto Rotating Blade (FC-8R), Fiber Stripper (JR-M03), One Pack of Fiber Protection Sleeves, Shipping Case, one set of Spare Electrodes (ER-10), AC Interface/Battery Charger with Power Cord, Battery Unit (BU-102)
TYPE-Q102-CAp-KIT-8RFH	TYPE Q102-CA+ Quantum Fusion Splicer Kit includes 250um, 900um and Loose Buffer Fiber Holders, Precision Cleaver w/ Auto Rotating Blade (FC-8R), Fiber Stripper (JR-M03), One Pack of Fiber Protection Sleeves, Shipping Case, one set of Spare Electrodes (ER-10), AC Interface/Battery Charger with Power Cord, Battery Unit (BU-102)

Accessories

Part name	Part No.	Remarks	
Accessories for Splicer	SumiCloud card	WLSD series For SumiCloud™ connection	
	Fiber holder	FHS-025	ForΦ 0.25mm single fiber
		FHS-09	ForΦ 0.9mm single fiber
		FHS-025-LB5-L250um	Loose Buffer Holder - Left Side
		FHS-025-LB5-SET250um	Loose Buffer Holder Set (L&R)
		LYNX2-HOLDER-C	Lynx SOC Ferrule Holder
		LYNX2-HOLDER-S	Lynx SOC Ferrule Holder (FPS Holder)
	Battery pack	BU-102	Li-ion 6,400mAh
	Battery charger	BC-102	—
	Car battery cable	PCV-16	For car battery operation (cigarette socket)
V-groove cleaning brush	VGB-003-CR	Brush for cleaning V-groove	
Accessories	Electrode	ER-10	—
	Fiber Cleaver	FC-8R	Automatic blade rotation cleaver with cleave counter
		FC-6RS-C	Automatic blade rotation cleaver
	Jacket remover	JR-M03	Jacket remover for single fiber
	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	

 Sumitomo Electric Industries, Ltd.