



High Definition Core Aligning
fusion splicer

TYPE-Q102-CA

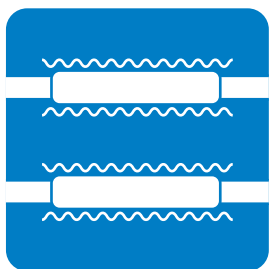


Useful cloud hosted
splicer services via
your smartphone App.



Advanced, Adept, Assured

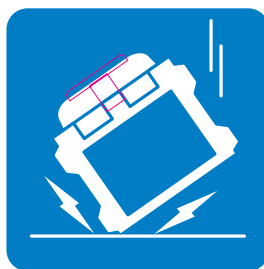
Splicing 5s / Heating 9s
Splicing loss SMF 0.01dB (Typical)



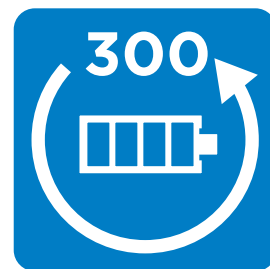
High speed
dual independent heaters
for productivity



Touch optimized
user interface and
high resolution display



Proven field
toughness



Long life battery
for 300 splice
& heat cycles

Specifications

Items	TYPE-Q102-CA	
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), CSF(G.654), EDF
	Fiber diameter	Cladding diameter : 80 - 150 μm, Coating diameter : 100 - 1,000 μm
	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)	9sec (FPS-61-2.6 sleeve, S60mm 0.25 Quick Mode)
	Splice & Heat cycles per battery full charge*2	Approx. 300 (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
	Splice programs	Max. 300, 74 are pre-optimized, 226 editable by user
Functions	Heating programs	Max. 100, 27 are pre-optimized, 73 editable by user
	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, 250 μm, 900 μm 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
Size / Weight	Display of remaining Splice & Heat cycles	Provided (Battery mode)
	Wireless LAN connectivity (Option)*3	Provided
	Size	128(W) x 154(D) x 130(H) mm (without anti-shock rubber)
Terminals	Weight	1.9kg (without Battery) / 2.2kg (with Battery BU-16)
	Monitor	5.0" touch screen color LCD display
	DC output	DC 12V (for JR-6)
Power supply	USB port	USB 2.0 (mini-B type)
	Storage media	SD / SDHC memory card Max32GB
	AC input	AC 100 - 240V, 50/60Hz (ADC-16)
Operating condition	DC input	DC 10 - 15V
	Battery pack	Li-ion 10.8V, 6,400mAh (BU-16)
Storage condition	Altitude : 0 - 6,000m, Temperature : -10 - +50°C, Humidity : 0 - 95% (non-condensing), Wind velocity : up to 15m/sec	
Electrode life *4	Temperature : -40 - +80°C, Humidity : 0 - 95% (non-condensing), Battery : -20 - +30°C (long term)	
Software updates	6,000 arc discharges	
Data management	Internet	
	Can be stored, edited and analyzed by dedicated PC software	

*1 : Average value of the final inspection in room temperature with Sumitomo Electric 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. <http://global-sei.com/sumitomo-electric-splicers/>

*4 : Achieved in lab condition. Electrode life may vary depending on the operating environment.

Environmental Durability*

Test details	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 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 75 μm)

*Splicer operation after shock, impact, water or dust tests, was confirmed under battery power, by Sumitomo Electric.

Does not guarantee the product will not be damaged by these conditions.

Basic Accessories

Part name	Details	Qty.
AC adapter	PS-Q102	1 pc
AC power cord	PC-Q102	1 pc
Cooling tray	Q102-CT-09	1 pc
Spare electrode	ER-10	1 pair
Quick reference guide	—	1 pc
Carrying case with worktable	SC-Q102	1 pc
Hand strap	—	1 pc
USB cable	—	1 pc

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.

Ordering Information

Part Number	Description
TYPE-Q102-CA-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-11), AC Interface/Battery Charger with Power Cord, Battery Unit (BU-101)
TYPE-Q102-CA-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-11), AC Interface/Battery Charger with Power Cord, Battery Unit (BU-101)
TYPE-Q102-CA-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-11), AC Interface/Battery Charger with Power Cord, Battery Unit (BU-101)
TYPE-Q102-CA-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-11), AC Interface/Battery Charger with Power Cord, Battery Unit (BU-101)
TYPE-Q102-CA-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-11), AC Interface/Battery Charger with Power Cord, Battery Unit (BU-101)
TYPE-Q102-CA-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-11), AC Interface/Battery Charger with Power Cord, Battery Unit (BU-101)

Accessories

Part Number	Description	
Wireless LAN SD Card	WLS0-0416	For SumiCloud™ connection
Fiber Holders	FHS-025	250um Single Fiber Holders
	FHS-09	900um Single Fiber Holders
	FHS-025-LB5-L	250um Loose Buffer Holder - Left Side
	FHS-025-LB5-SET	250um 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	BU-16	--
Car Battery Cable	BC-102	--
V-Groove Cleaning Brush	VGB-003-CR	Brush for cleaning V-groove
Electrode	ER-10	--
Handheld Fiber Cleaver	FC-8R	Automatic Blade Rotation Cleaver with Cleave Counter
Fiber Cleaver	FC-6S-C	Table Top Fiber Cleaver
Jacket Remover	JR-M03	Jacket Remover for Single Fiber
Loose Tube Cutter	--	--
Alcohol Dispenser	HL-2	Alcohol Dispenser Bottle (No Alc)
Fiber Protection Sleeves	FPS-1	60mm Diam. Protection Sleeve (qty 50)
	FPS-61-2.6	60mm Diam. Protection Sleeve (qty 50)
	FPS-40-10P	40mm Diam. Protection Sleeve (qty 10)