

Smart Active Clad Alignment fusion splicer

Q502S

Powered by



Next generation splicing performance



Compact and light 1.2 kg



Reduce work time Splicing 6s Heating 12s



Hot Core Analyzing



Splice Data Utilization

Specifications

Items		Q502S	
	Material	Silica glass	
Optical fiber	Fiber count / Profile types	Single / SMF(G.652), MMF(G.651), DSF(G.653), NZDSF(G.655), BIF(G.657)	
requirements	Fiber diameter	Cladding diameter: 125 um, Coating diameter: 250um to 3mm (by multi clamp option)	
·	Cleave length	5 to 16mm for single fiber, 8mm for drop cable	
	Splice loss (typical)*2	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)	
Standard	Heating time (typical)	12sec (FPS-61-2.6 sleeve, S60mm 0.25 Quick Mode)	
performance	Splice & Heat cycles per battery full charge*3	Approx. 250 (BU-17)	
	Fiber view & magnification	2 CMOS cameras observation, 180X (zoom : 370X) for X or Y single axis view	
	Proof test	1.96 ~ 2.09N	
	Applicable protection sleeve	60mm, 40mm & Sumitomo Nano sleeves	
Пиолипио	Splice programs	Max. 300, 18 are pre-optimised, 282 editable by user	
Programs	Heating programas	Max. 100, 27 are pre-optimised, 73 editable by user	
	Splice image capture / Splice data strage	200 images / 10,000 splice data (internal memory only) 50,200 / 20,000 (With 16GB SD card)	
	Multi clamp	Applicable for 250 & 900um coated fiber, 900um loose buffer fiber, 2 & 3mm jacket cord and rectangular drop cable	
	Heater clamp for splice on connector	Provided	
	Auto-start	Splice / Heating	
Functions	Automatic fiber identification	SMF / MMF	
	Automatic arc calibration	Automatically compensates for environmental condition changes	
	Core loss estimation	Provided, HCA: Hot Core Analyzing	
	Wireless LAN connectivitiy (Option)*4	Provided	
	Onboard user training video	Provided	
	Size	126(W) x 154(D) x 101(H) mm (without protrusion)	
Size / Weight	Weight	0.9kg (without Battery), 1.2kg (with Battery BU-17)	
	Monitor	4.3 inch color LCD display with capacitive touch screen	
Terminals	USB port	USB 2.0 (mini-B type)	
Terriniais	Strage media	SD / SDHC memory card Max32GB	
	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)	
Operation condition		Altitude : 0 ~ 5,000m, Temperature : -10 ~ +50°C, Humidity : 0 ~ 95%RH (non-condensing),	
		Wind velocity : up to 15m/sec	
Strage condition		Temperature : -40 ~ +80°C, Humidity : 0 ~ 95%RH (non-condensing),	
		Battery: -20 ~ +30°C (long term)	
Electrode life *5		6,000 arc discharges	
Software updates		Internet	
Data management		Can be stored, edited and analyzed by dedicated PC software	

- *1,4: SumiCloud availability / wireless LAN connectivity depends on region. More details: https://global-sei.com/sumitomo-electric-splicers/products/sumicloud/
 *2: Average value of the final inspection in room temperature with Sumitomo identical fibre. Measured by cut-back method relevant to ITU-T and IEC standards.
 *4: Splice & Heat cycles may vary depending on the battery status and the operating environment.
 *5: 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)
Rain resistance	Equivalent IPx2
Dust resistance	Equivalent IP5X

*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.

Standard Kit Contents

Part name	Part No.	Qty.
AC adapter	ADC-15	1pc
AC power cord	PC-AC< * >-2P	1pc
Battery pack	BU-17	1pc
Spare electrode	ER-17	1pair
Quick reference guide	_	1pc

Part name	Part No.	Qty.
Carrying case	CC-17	1pc
Working tray	WT-17	1pc
Shoulder belt	_	1pc
USB cable	_	1pc

*X=2(USA), 3(EU), 4(JP), 5(UK), 6(AUS), 7(South Africa) N=2(05A), 5(c0), 4(07), 5(0N), 5(00), 7(30dH AIII.2) ltems listed in Standard Kit Contents 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.

Optional Accessories

	Part name	Part No.	Remarks
Accessories	SumiCloud card	WLSD-0416	For SumiCloud™ connection
	Fiber holder	FHS-025-LB5-L	For 0.9mm loose buffered single fiber
oss	Transfer clamp	CLP-201	Transferring drop cable on working tray
rie.	Battery pack	BU-17	Li-ion 10.8V, 4,560mAh
s for	Battery charger	BC-17	For BU-17
T'S	Car battery cable	PC-V25	For car battery operation (cigarette socket type)
Splicer	Electrode	ER-17	_
<u>e</u>	Cooling tray	FCT-17	_
Acc	Fiber cleaver	FC-6S-C	Table-top high precision cleaver
	Fiber cleaver	FC-6RS-C	Automatic blade rotation cleaver
	Hand held fiber cleaver	FC-8R	Automatic blade rotation cleaver with counter
) Ge	nalid field fiber cleaver		
SS	Jacket remover	JR-M03	Jacket remover for single fiber
익	Cleaning kit	FUS-CLK-KIT	Fusion splicer cleaning kit & consumables
ories		FPS-1	60mm, diameter after shrink approx. 3.2mm
,	Fiber protection sleeve	FPS-40	40mm, diameter after shrink approx. 3.2mm
		FPS-61-2.6	61mm, diameter after shrink approx. 2.6mm

Ordering Information

Part Number	Description
TYPE-Q502S-KIT-1H	TYPE-Q502S Quantum Fusion Splicer Kit includes 250um and 900um Fiber Holders, Fiber Stripper (JR-M03), One Pack of Fiber Protection Sleeves, Hard Shipping Case, one set of Spare Electrodes (ER-17), AC Interface/Battery Charger with Power Cord, Battery Unit (BU-17), Cleaning Kit (FUS-CLN-KIT)
TYPE-Q502S-KIT-2H	TYPE-Q502S Quantum Fusion Splicer Kit includes Fiber Cleaver (FC-6S-C), 250um and 900um Fiber Holders, Fiber Stripper (JR-M03), One Pack of Fiber Protection Sleeves, Hard Shipping Case, one set of Spare Electrodes (ER-17), AC Interface/Battery Charger with Power Cord, Battery Unit (BU-17), Cleaning Kit (FUS-CLN-KIT)
TYPE-Q502S-KIT-6RSCH	TYPE-Q502S Quantum Fusion Splicer Kit includes 250um and 900um Fiber Holders, Precision Cleaver w/ Auto Rotating Blade (FC-6RS-C), Fiber Stripper (JR-M03), One Pack of Fiber Protection Sleeves, Hard Shipping Case, set of Spare Electrodes (ER-17), AC Interface/Battery Charger with Power Cord, Battery Unit (BU-17), Cleaning Kit (FUS-CLN-KIT)
TYPE-Q502S-KIT-8RH	TYPE-Q502S Quantum Fusion Splicer Kit includes 250um and 900um Fiber Holders, Precision Cleaver w/ Auto Rotating Blade (FC-8R), Fiber Stripper (JR-M03), One Pack of Fiber Protection Sleeves, Hard Shipping Case, set of Spare Electrodes (ER-17), AC Interface/Battery Charger with Power Cord, Battery Unit (BU-17), Cleaning Kit (FUS-CLN-KIT)

Sumitomo Electric Industries, Ltd.