



# AI-powered ribbon fiber splicer Q102-M12+

Powered by



**NanoTune™**  
Enhanced splice experience



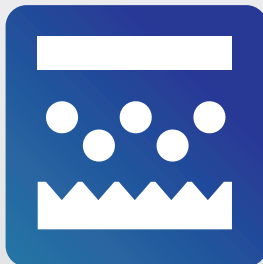
**SumiCloud™**



## Ribbon Splicing. Redefined.



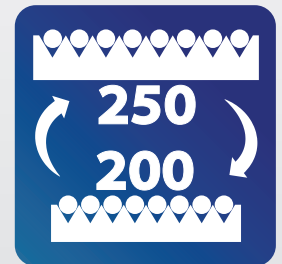
AI-powered,  
NanoTune™ for  
ribbon splicing



Better fiber  
alignment  
with ACAS



Patented coatings  
on V-grooves  
and lens



Versatile,  
replaceable  
V-grooves

**One World, Connected.**

## Specifications

Items	Q102-M12+	
Optical fiber requirements	Material	Silica glass
	Profile types	Single/ SMF(G652), MMF(G651), DSF(G653), NZDSF(G655), BIF(G657)
	Fiber count	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
	Cladding diameter	125µm
	Coating diameter	Single fiber coating dia: 200µm, 250µm, 500µm, 900µm Ribbon fiber thickness: 200-400µm
	Applicable cable	Drop cable(2.0mm×3.1,or2.6mm), Indoor cable(2.0mm×1.6mm)
Standard performance	Cleave length	10mm
	Splice loss (typical) *1	SMF 0.05dB, MMF 0.02dB, DSF 0.08dB, NZDSF 0.08dB
	Splice time (typical)	1 sec (SM 12c Quick Mode), 14 sec (SM 12c Std. Mode)
	Heating time (typical)	28sec (FPS-6 sleeves, 40mm 1-12c Quick Mode)
	Splice & heat cycles per battery full charge *2	Approx 180
	Fiber view and magnification	2 CMOS cameras observation, 23X (zoom 46X)
	Proof test	1.96-2.09 N
Programs	Applicable protection sleeve	60mm, 40mm & Sumitomo Electric nano sleeves
	Splice programs	Max 300
Functions	Heating programs	Max 100
	Splice image capture / Splice data storage	200 images / 10,000 splice data (internal memory only) 50,200 images / 20,000 splice data (with 16GB SD card)
	Automatic fiber count detection	Provided
	Automatic arc calibration	Automatically compensates for environmental condition changes
	Auto clamping adjustment system	Provided
	Reversible fiber holder system	Provided
	Dual automatic independent heaters	Provided
	User-selectable heater clamp operation	Provided
	Display of remaining Splice & Heat cycles	Provided (Battery mode)
	Onboard user training video	Provided
Size / Weight	Wireless LAN connectivity (Option) *3	Provided
	Size	128 (W) x 154 (D) x 130 (H) mm (without anti-shock rubber)
	Weight	1.8kg(without Battery) / 2.1kg(with Battery BU-16)
Terminals	Monitor	5.0" touch screen color LCD display
	DC output	DC 12V (for JR-7)
	USB port	USB2.0 (mini-B type)
Power supply	Storage media	SD/SDHC memory card MAX32GB
	AC input	AC 100-240V, 50/60Hz (ADC-16)
	DC input	DC 10-15V, 7.5A
Operating condition	Battery pack	Li-ion 10.8V, 6400mAh (BU-16)
	Storage condition	Altitude : 0-3,660m, 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%, Battery : -20-30°C(long term)	1,500 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 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
Shock resistance	Drop from 76cm on 5 faces (excluding top face)
Impact resistance	Equivalent to IK07 on LCD monitor
Water resistance	Equivalent to IPx2
Dust resistance	Equivalent to IP5x

\*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

Product 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	CC-72	1 pc
V-groove cleaning brush	VGB-004	1 pc
Hand strap	—	1 pc
USB cable	—	1 pc

\*X=2(USA), 10(BRAZIL)

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.

## Accessories

Product name	Part No.	Remarks
SumiCloud card	WLSD series	For SumiCloud™ connection
Battery pack	BU-16	Li-ion 6,400mAh
Battery charger	BC-16	—
Car battery cable	PCV-16	For car battery operation (cigarette socket type)
V-groove cleaning brush	VGB-004	Soft brush for anti-dust coated V-groove

## Accessories

Product name	Part No.	Remarks
Fiber holder	FHS-025	For 0.25 mm single fiber
	FHS-09	For 0.9 mm single fiber
	FHM-2	For 2-fiber ribbon
	FHM-3	For 3-fiber ribbon
	FHM-4	For 4-fiber ribbon
	FHM-5	For 5-fiber ribbon
	FHM-6	For 6-fiber ribbon
	FHM-7	For 7-fiber ribbon
	FHM-8	For 8-fiber ribbon
	FHM-9	For 9-fiber ribbon
	FHM-10	For 10-fiber ribbon
	FHM-11	For 11-fiber ribbon
Spare electrode	FHM-12V	For 12-fiber ribbon
	PCH-12V	200µm to 250µm pitch changing holder for pliable fiber ribbon
Spare V-groove	Lynx2-UML-S	For φ3 mm cord and φ0.9 mm single fiber
	ER-10	For 250µm pitch 12 fiber ribbon
Spare V-groove	ER-10-200	For 200µm pitch 12 fiber ribbon
	SVG01-1225	For 250µm pitch 12 fibers (ER-10 & FHM-12V included)
Handheld cleaver	SVG01-1220	For 200µm pitch 12 fibers (ER-10-200 & FHM-12N included)
	FC-8R-FC	Automatic blade rotation cleaver with cleave counter
Table-top cleaver	FC-8R-F	Automatic blade rotation cleaver
Fiber Arrangement tool	FC-6R+	Automatic blade rotation cleaver
	OFA-02	Glue free fiber arrangement tool
Jacket remover	FTA-02	Glue type fiber rebbonizing tool
	JR-M03	Jacket remover for single fiber
Fiber protection sleeve	JR-7	Hot jacket remover for ribbon fiber
	FPS-1	60 mm sleeve for single fiber
	FPS-40	40 mm sleeve for single fiber
	FPS-5	40 mm sleeve for single fiber and up to 8-fiber ribbon
	FPS-6	40 mm sleeve for single fiber and up to 12-fiber ribbon
	FPS-D60	60 mm sleeve for single-fiber drop, and indoor cables
Alcohol dispenser	HR-3	—



Carrying case with worktable  
CC-72



Table-top cleaver  
FC-6R+



Hot jacket remover  
JR-7



Spare V-groove  
SVG01-1225 (for 250µm)



Spare V-groove  
SVG01-1220 (for 200µm)



Pitch changing holder  
PCH-12V



Fiber Arrangement tool  
OFA-02

Sumitomo Electric Industries, Ltd.