



AI-powered ribbon fiber splicer

QUANTUM *ULTRA*

Powered by



NanoTune™
Enhanced splice experience



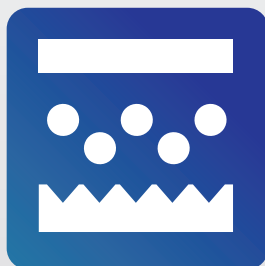
SumiCloud™



High Density Demands High Performance



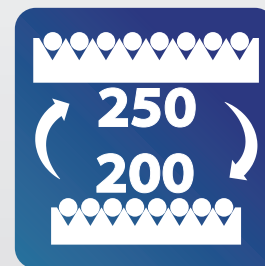
AI-powered,
NanoTune™ for
ribbon splicing



Better fiber
alignment
with ACAS



Patented coatings
on V-grooves
and lens



Versatile,
replaceable
V-grooves
up to 16 fiber
Ribbon

One World, Connected.

Specifications

Items		GULTRA-RBN
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, 16
	Cladding diameter	125µm
	Coating diameter	Single fiber coating dia: 200µm, 250µm, 500µm, 900µm Ribbon fiber thickness: 200-400µm
Standard performance	Applicable cable	Drop cable(2.0mm×3.1,or2.6mm), Indoor cable(2.0mm×1.6mm)
	Cleave length	10mm
	Splice loss (typical) *1	SMF 0.05dB, MMF 0.02dB, DSF 0.08dB, NZDSF 0.08dB
	Splice time (typical)	11sec (SM 12c Quick Mode), 14 sec (SM 12c Std. Mode, SM 16c 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
	Heating programs	Max 100
Functions	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)
	Monitor	5.0" touch screen color LCD display
Terminals	DC output	DC 12V (for JR-7)
	USB port	USB2.0 (mini-B type)
	Storage media	SD/SDHC memory card MAX32GB
Power supply	AC input	AC 100-240V, 50/60Hz (ADC-16)
	DC input	DC 10-15V, 7.5A
	Battery pack	Li-ion 10.8V, 6400mAh (BU-16)
Operating condition		Altitude : 0-3,660m, Temperature : -10-50°C, Humidity : 0-95%(non-condensing), Wind velocity : up to 15m/sec
Storage condition		Temperature : -40-80°C, Humidity : 0-95%, Battery : -20-30°C(long term)
Electrode life *4		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 (12-fiber ribbon, 250µm pitch). Electrode life may vary depending on the operating environment.

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	WLS-D 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
Spare electrode	ER-10	For 250µm pitch 12 fiber ribbon & 200µm pitch 16 fiber ribbon
	ER-10-200	For 200µm pitch 12 fiber ribbon
	ER-10-1625	For 250µm pitch 16 fiber ribbon
Fiber protection sleeve	FPS-1	60 mm sleeve for single fiber
	FPS-40	40 mm sleeve for single fiber
	FPS-6	40 mm sleeve for single fiber and up to 12-fiber ribbon

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-x	For x -fiber ribbon, 250µm pitch (x=2 ~ 11)
	FHM-12	For 12-fiber ribbon, 250µm pitch
	FHM-12N	For 12-fiber ribbon, 200µm pitch
	FHM-16	For 16-fiber ribbon, 250µm pitch
	FHM-16ND	For 16-fiber ribbon, 200µm pitch
	PCH-12V	200µm to 250µm pitch changing holder for pliable fiber ribbon
Spare V-groove Kit	SVG01-1225	For 250µm pitch 12 fibers (ER-10 & FHM-12 included)
	SVG01-1220	For 200µm pitch 12 fibers (ER-10-200 & FHM-12N included)
	SVG01-1625	For 250µm pitch 16 fibers (ER-10-1625 & FHM-16 included)
	SVG01-1620	For 200µm pitch 16 fibers (ER-10 & FHM-16ND included)
Table-top cleaver	FC-6R+	Automatic blade rotation cleaver
Fiber Arrangement tool	OFA-02	Glue free fiber arrangement tool
	FTA-02	Glue type fiber ribbonizing tool
Jacket remover	JR-7	Hot jacket remover for ribbon fiber
Alcohol dispenser	HR-3	—

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.



Carrying case with worktable
CC-72



Table-top cleaver
FC-6R+



Hot jacket remover
JR-7



Spare V-groove
SVG01-1620
For 16f 200µm fiber



Spare V-groove
SVG01-1220
For 12f 200µm fiber



Pitch changing holder
PCH-12V



Fiber Arrangement tool
OFA-02

Sumitomo Electric Industries, Ltd.

Part Number	Splicer Kit	Holders	Remover & Cleaver
GULTRA-RBN	Quantum-Ultra Ribbon Fiber Splicer configured for 12f-250µm pitch. Includes Shipping Case, Spare Electrodes (ER-10), Cooling Tray, AC Interface/Battery, Charger with Power Cord (PS-Q102), Battery Unit (BU-102), V-groove Cleaning Brush (VGB-004), USB Cable 2.0, Fiber Protection Sleeves (FPS-6), Cleaning Kit (FUS-CLN-KIT-M).	250µm 12-Fiber Holders (FHM-12) 250µm Single Fiber Holders (FHS-025)	Table Top Cleaver, FC-6R+ Thermal Jacket Remover, JR-7