QULTRA-RBN

SUMITOMO ELECTRIC
Connect with Innovation

16f ribbon fiber splicer

# QUANTUM *ULTRA*

Powered by

NanoTune™
Enhanced splice experience




## High Density Demands High Performance

AI-powered, NanoTune™ for ribbon splicing

Better fiber alignment with ACAS

Patented coatings on V-grooves and lens

250
200

Versatile, replaceable V-grooves up to 16 fiber Ribbon

**One World, Connected.**

SUMITOMO ELECTRIC GROUP

## Specifications

| Items | | QULTRA-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<br>Ribbon fiber thickness: 200-400µm |
| | Applicable cable | Drop cable(2.0mm×3.1,or2.6mm), Indoor cable(2.0mm×1.6mm) |
| | Cleave length | 10mm |
| Standard performance | 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 |
| | Applicable protection sleeve | 60mm, 40mm & Sumitomo Electric nano sleeves |
| Programs | 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 |
| | Wireless LAN connectivity (Option) *3 | Provided |
| Size / Weight | 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, Temparature : -10-50℃, Humidity : 0-95%(non-condensing), Wind velocity : up to 15m/sec |
| Storage condition | | Temperature : -40-80℃, Humidity : 0-95%, Battery : -20-30℃(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, 250um 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 |
|---|---|---|
| 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 250um pitch 12 fiber ribbon & 200um pitch 16 fiber ribbon |
| | ER-10-200 | For 200um pitch 12 fiber ribbon |
| | ER-10-1625 | For 250um 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 | — |

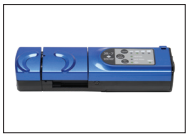
## Environmental Durability*

| | 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.

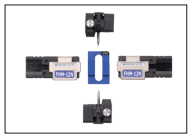

Carrying case with worktable **CC-72**


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 |
|---|---|---|---|
| QULTRA-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)<br>250µm Single Fiber Holders (FHS-025) | Table Top Cleaver, FC-6R+<br>Thermal Jacket Remover, JR-7 |

■Specifications are subject to change without prior notice.