SUMITOMO ELECTRIC
Connect with Innovation

## High Definition Core Aligning fusion splicer

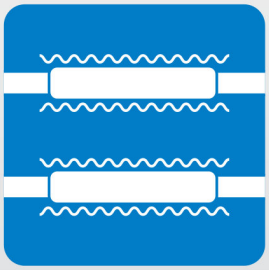
# TYPE-72C+

Powered by

NanoTune™
Enhanced splice experience

# Dependable

## Splicing 5s/Heating 8s/Splice loss 0.01dB



Dual speed high heating

Proven field toughness

Long life battery

SUMITOMO ELECTRIC GROUP

## Specifications

| Items | | TYPE-72C+ |
|---|---|---|
| Optical fibre requirements | Material | Silica glass |
| | Fibre count / Profile types | Single / SMF(G.652), MMF(G.651), DSF(G.653), NZDSF(G.655), BIF(G.657), CSF(G.654), EDF |
| | Fibre diameter | Cladding diameter : 80 ~ 150µm, Coating diameter : 100 ~ 1,000µm |
| | 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) | 8sec (FPS-61-2.6 sleeve, S60mm 0.25 Quick Mode ) |
| | Splice & Heat cycles per battery full charge*2 | Approx. 320 (BU-16) |
| | Fibre view & magnification | 2 CMOS cameras observation,<br>380X (zoom : 760X) for X or Y single axis view, 270X for both X & Y dual axis view |
| | Proof test | 1.96 ~ 2.09N |
| | Applicable protection sleeve | 60mm, 40mm & Sumitomo Nano sleeves |
| Programs | Splice programs | Max. 300, 74 are pre-optimsed, 226 editable by user |
| | Heating programs | Max. 100, 27 are pre-optimsed, 73 editable by user |
| Functions | 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, 200µm, 900µm tight & loose buffer fibre |
| | Reversible coating clamps | Provided |
| | Dual automatic independent ovens | Provided |
| | User-selectable oven clamp operation | Provided |
| | Onboard user training video | Provided |
| | Automatic fibre identification | SMF / MMF / DSF / NZDSF / BIF / Other |
| | Automatic arc calibration | Automatically compensates for environmental condition changes |
| | Display of remaining Splice & Heat cycles | Provided (Battery mode) |
| Size / Weight | Size | 128(W) x 154(D) x 130(H) mm (without anti-shock rubber) |
| | Weight | 1.9kg (without Battery) / 2.2kg (with Battery BU-16) |
| | Monitor | 5.0" touch screen color LCD display |
| Terminals | DC output | DC 12V (for JR-6+) |
| | USB port | USB 2.0 (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 |
| | Battery pack | Li-ion 10.8V, 6,400mAh (BU-16) |
| Operating condition | | Altitude : 0 ~ 6,000m, Temperature : -10 ~ +50°C, Humidity : 0 ~ 95% (non-condensing),<br>Wind velocity : up to 15m/sec |
| Storage condition | | Temperature : -40 ~ +80°C, Humidity : 0 ~ 95% (non-condensing), Battery : -20 ~ +30°C (long term) |
| Electrode life *3 | | 6,000 arc discharges |
| Software updates | | Internet |
| Data management | | Can be stored, edited and analysed by dedicated PC software |

*1 : 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.
*2 : Splice & Heat cycles may vary depending on the battery status and the operating environment.
*3 : 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 (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 75µm) |

*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.

## Basic Accessories

| Part 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 with worktable | CC-72 | 1 pc |
| Hand strap | — | 1 pc |
| USB cable | — | 1 pc |

*X=2(USA), 3(EU), 4(JP), 5(UK), 6(AUS), 7(South Africa)
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

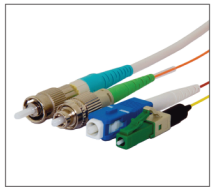
| | Part name | Part No. | Remarks |
|---|---|---|---|
| Accessories for Splicer | Fibre holder | FHS-025 | For ϕ0.25mm single fibre |
| | | FHS-09 | For ϕ0.9mm single fibre |
| | | FHS-025/LB5 | For 0.9mm loose buffered single fibre |
| | | FHD-1 | For drop/indoor cable(Cable size : typical 2.0 x 3.1 or 2.6mm) |
| | | 1SM-ST | For indoor cable (Cable size : typical 1.6 x 2.0mm) |
| | | FHC-3 | For 3mm cable |
| | 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 | VGT-2 | Brush for cleaning V-groove |
| | Electrode | ER-10 | — |
| Accessories | Handheld fibre cleaver | FC-8R-FC | Automatic blade rotation cleaver with counter |
| | | FC-8R-F | Automatic blade rotation cleaver (no counter) |
| | Fibre cleaver | FC-6S+ | Table-top high precision cleaver |
| | | FC-6R+ | Automatic blade rotation cleaver |
| | Jacket remover | JR-M03 | Jacket remover for single fibre |
| | Loose tube cutter | LTC-01 | — |
| | Alcohol dispenser | HR-3 | — |
| | Fibre protection sleeve | FPS-1 | 60mm, diameter after shrink approx. ϕ3.2mm |
| | | FPS-40 | 40mm, diameter after shrink approx. ϕ3.2mm |
| | | FPS-61-2.6 | 61mm, diameter after shrink approx. ϕ2.6mm |

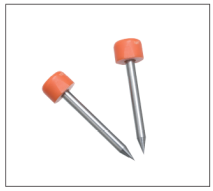
Carrying case with worktable
**CC-72**

Handy cleaver
**FC-8R series**

Table-top cleaver
**FC-6+ series**

Jacket remover
**JR-M03**


Compatible with Lynx-CustomFit™
**Splice-on Connector**


Electrode
**ER-10**

Sumitomo Electric Industries, Ltd.