

## Automatic Adaptive Core fusion splicer

# T-56+

Powered by



**NanoTune™**  
Enhanced splice experience



**SumiCloud™**



## Power through with ease



Proven field  
toughness



High environmental  
resistance



Smart and easy  
operation



Reduce work time  
Splicing 6s  
Heating 15s

## Specifications

| Items                      |                                                | T-56+                                                                                                                                                         |
|----------------------------|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Optical fiber requirements | Material                                       | Silica glass                                                                                                                                                  |
|                            | Fiber count / Profile types                    | Single / SMF(G.652), MMF(G.651), DSF(G.653), NZDSF(G.655), BIF(G.657)                                                                                         |
|                            | Fiber diameter                                 | Cladding diameter : 80 - 150µm, Coating diameter : 100 - 1,000µm                                                                                              |
|                            | Cleave length                                  | 5 - 16mm with coating clamp                                                                                                                                   |
| Standard performance       | Splice loss (typical)*1                        | SMF : 0.02dB, MMF : 0.01dB, DSF : 0.04dB, NZDSF : 0.04dB, BIF : 0.02dB                                                                                        |
|                            | Return loss (typical)                          | 60dB or greater                                                                                                                                               |
|                            | Splice time (typical)                          | 6sec(SM G652 Quick Mode), 8sec(Auto Mode)                                                                                                                     |
|                            | Heating time (typical)                         | 15sec (FPS-61-2.6 sleeve, S60mm 0.25)                                                                                                                         |
|                            | Splice & Heat cycles per battery full charge** | Approx. 310 (BU-16)                                                                                                                                           |
|                            | Fiber view & magnification                     | 2 CMOS cameras observation, 350X (zoom : 700X) for X or Y single axis view, Max. 350 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, 40 are pre-optimised, 260 editable by user                                                                                                          |
|                            | Heating programs                               | Max. 100, 23 are pre-optimised, 77 editable by user                                                                                                           |
| Functions                  | Splice image capture / Splice data storage     | 200 images / 10,000 splice data (internal memory only) 50,200/20,000 (with 16GB SD card)                                                                      |
|                            | Multi clamps                                   | Applicable: 250µm, 900µm tight & loose buffer fiber, 2&3mm jacket cord and rectangular drop cable, 3.5mm round drop cable, reversible for use from front&back |
|                            | Onboard user training video                    | Provided                                                                                                                                                      |
|                            | Automatic fiber identification                 | SMF / MMF / NZDS / BIF / Other                                                                                                                                |
|                            | Automatic arc calibration                      | Automatically compensates for environmental condition changes                                                                                                 |
| Size / Weight              | Display of remaining Splice & Heat cycles      | Provided (Battery mode)                                                                                                                                       |
|                            | Size                                           | 128(W) x 154(D) x 130(H) mm (without anti-shock rubber)                                                                                                       |
|                            | Weight                                         | 1.7kg (without Battery) / 2.0kg (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), 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 analyzed by dedicated PC software                                                                                                   |

\*1 : Average value of the final inspection in room temperature with Sumitomo 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 : 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), 4 edges and corners (bottom face only) |
| 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.

Does not guarantee the product will not be damaged by these conditions.

## Basic Accessories

| Part name                    | Part No.  | Qty.   |
|------------------------------|-----------|--------|
| AC adapter                   | ADC-16    | 1 pc   |
| AC power cord                | PC-AC<X>* | 1 pc   |
| Cooling tray                 | —         | 1 pc   |
| Battery pack                 | BU-16     | 1 pc   |
| Spare electrode              | ER-10     | 1 pair |
| Quick reference guide        | —         | 1 pc   |
| Carrying case with worktable | CC-82     | 1 pc   |
| Hand strap                   | —         | 1 pc   |
| USB cable                    | —         | 1 pc   |

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

Items listed in the table are typical contents 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 | Fiber holder            | FHS-025     | For φ0.25mm single fiber                    |
|                         |                         | FHS-09      | For φ0.9mm single fiber                     |
|                         |                         | FHS-025/LB5 | For 0.9mm loose buffered single fiber       |
|                         |                         | FHD-1       | For indoor / outdoor rectangular drop cable |
|                         |                         | FHC-3       | For 3mm cable                               |
|                         |                         | Lynx2-UML-S | For φ3mm cord and φ0.9mm single fiber       |
| Accessories             | Battery pack            | BU-16       | Li-ion 6,400mAh                             |
|                         | Battery charger         | BC-16       | —                                           |
|                         | Car battery cable       | PCV-16      | Vehicle 12V outlet                          |
|                         | Electrode               | ER-10       | —                                           |
|                         | Handheld cleaver        | FC-8R-FC    | Auto blade rotation + cleave counter        |
|                         |                         | FC-8R-F     | Auto blade rotation                         |
|                         | Tabletop cleaver        | FC-6R+      | Auto blade rotation                         |
|                         |                         | FC-6S+      | Single fiber cleaver                        |
|                         | Jacket remover          | JR-M03      | Jacket remover for single fiber             |
|                         | Loose tube cutter       | LTC-01      | —                                           |
|                         | Alcohol dispenser       | HR-3        | —                                           |
|                         | Fiber 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-82



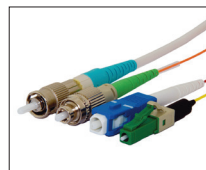
Handy cleaver  
FC-8R series



Table-top cleaver  
FC-6+ series



Jacket remover  
JR-M03



Splice-On Connector  
Lynx-Custom Fit™



Electrode  
ER-10

| Part Number           | Description                                                                                                                                                                                                                                                                                 |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TYPE-56p-CA-KIT-6RSCp | TYPE-56+ Fusion Splicer Kit includes Precision Cleaver w/ Auto Rotating Blade (FC-6R+), Fiber Stripper (JR-M03), Fiber Clamps, One Pack of Fiber Protection Sleeves, Shipping Case, one set of Spare Electrodes (ER-10), AC Interface/Battery Charger with Power Cord, Battery Unit (BU-16) |
| TYPE-56p-CA-KIT-8R    | TYPE-56+ Fusion Splicer Kit includes Precision Cleaver w/ Auto Rotating Blade (FC-8R), Fiber Stripper (JR-M03), Fiber Clamps, One Pack of Fiber Protection Sleeves, Shipping Case, one set of Spare Electrodes (ER-10), AC Interface/Battery Charger with Power Cord, Battery Unit (BU-16)  |

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