

## Automatic Adaptive Core fusion splicer

# T-56



## Fast, Capable, Practical

Fast Splicing 6s / Heating 15s

Splicing loss SMF 0.02dB (Typical)



Touch optimised  
user interface and  
high resolution display



Proven field  
toughness



Long life battery  
for 300 splice  
& heat cycles

## Specifications

Items	T-56	
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)
	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 : 0.02dB, MMF : 0.01dB, DSF : 0.04dB, NZDSF : 0.04dB
	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*2	Approx. 300 (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
Programs	Applicable protection sleeve	60mm, 40mm & Sumitomo Nano sleeves
	Splice programs	Max. 300, 24 are pre-optimised, 276 editable by user
Functions	Heating programs	Max. 100, 23 are pre-optimised, 77 editable by user
	Splice image capture / Splice data storage	200 images / 10,000 splice data (internal memory only) 50,200/20,000 (with 16GB SD)
	Universal clamps	Provided, 250µm, 900µm tight & loose buffer fiber
	Reversible coating clamps	Provided
	Onboard user training video	Provided
	Automatic fiber identification	SMF / MMF / Other
Size / Weight	Automatic arc calibration	Automatically compensates for environmental condition changes
	Display of remaining Splice & Heat cycles	Provided (Battery mode)
	Size	128(W) x 154(D) x 130(H) mm (without anti-shock rubber)
Terminals	Weight	1.7kg (without Battery) / 2.0kg (with Battery BU-16)
	Monitor	5.0" touch screen color LCD display
Power supply	DC output	DC 12V (for JR-6)
	USB port	USB 2.0 (mini-B type)
	Storage media	SD / SDHC memory card MAX32GB
Operating condition	AC input	AC 100 - 240V, 50/60Hz (ADC-16)
	DC input	DC 10 - 15V
Storage condition	Battery pack	Li-ion 10.8V, 6,400mAh (BU-16)
	Altitude	Altitude : 0 - 6,000m, Temperature : -10 - +50°C, Humidity : 0 - 95% (non-condensing), Wind velocity : up to 15m/sec
Electrode life *3	Temperature	Temperature : -40 - +80°C, Humidity : 0 - 95% (non-condensing), Battery : -20 - +30°C (long term)
Software updates	Internet	6,000 arc discharges
Data management	Can be stored, edited and analyzed by dedicated PC software	Internet

\*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)
Water 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, 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-72	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	Fibre holder	FHS-025	For Ø0.25mm single fiber
		FHS-09	For Ø0.9mm single fiber
		FHS-025-LB5	For 0.9mm loose buffered single fiber
		FHD-1	For indoor / outdoor rectangular drop
		1SM-ST	For indoor rectangular drop cable
		FHC-3	For 3mm cable
		Lynx2-UML-S	For Ø3mm cord and Ø0.9mm single fiber
	Battery pack	BU-102	Li-ion 6,400mAh
	Battery Charger	BC-16	—
	Car battery cable	PCV-16	Vehicle 12V outlet
V-groove cleaning brush	VGT-2	Brush for cleaning V-groove	
Electrode	ER-10	—	
Accessories	Handheld fibre cleaver	FC-8R-FC	Auto blade rotation + cleave counter
		FC-8R-F	Auto blade rotation
	Fibre cleaver	FC-6S-C	Table-top high precision cleaver
		FC-6RS-C	Automatic blade rotation cleaver
	Jacket remover	JR-M03	Jacket remover for single fiber
	Loose tube cutter	LTC-01	—
	Alcohol dispenser	HR-3	—
	Fibre protection sleeve	FPS-1	60mm, diameter after shrink approx. Ø3.2mm
FPS-40		40mm, diameter after shrink approx. Ø3.2mm	
FPS-61-2.6		61mm, diameter after shrink approx. Ø2.6mm	

Part Number	Description
TYPE-56-CA-KIT-6RSC	TYPE-56 Fusion Splicer Kit includes Precision Cleaver w/ Auto Rotating Blade (FC-6RS-C), Fiber Stripper (JR-M03), 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-102)
TYPE-56-CA-KIT-8R	TYPE 56 Fusion Splicer Kit includes Precision Cleaver w/ Auto Rotating Blade (FC-8R), Fiber Stripper (JR-M03), 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-102)

# SUMITOMO ELECTRIC INDUSTRIES, LTD.

North Carolina (U.S.A)  
Sumitomo Electric Lightwave Corp.

201 South Rogers Lane, Suite 100,  
Raleigh, NC 27610, U.S.A  
TEL: +1-919-541-8100

<https://www.sumitomoelectric.com/>