



AI-powered ribbon fibre splicer

# TYPE-72M12+

Powered by



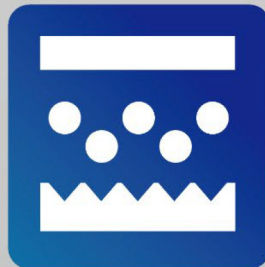
**NanoTune™**  
Enhanced splice experience



## Ribbon Splicing. Redefined.



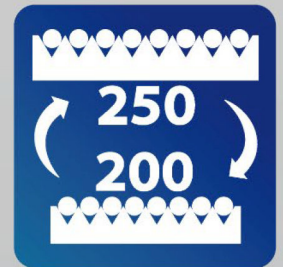
AI-powered,  
NanoTune™ for  
ribbon splicing



Better fibre  
alignment  
with ACAS



Patented  
coatings  
on V-grooves



Versatile,  
replaceable  
V-grooves

**One World, Connected.**

# Specifications

Items		TYPE-72M12+
Optical fibre requirements	Material	Silica glass
	Profile types	Single / SMF(G.652), MMF(G.651), DSF(G.653), NZDSF(G.655), BIF(G.657)
	Fibre count	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
	Cladding diameter	125µm
	Coating diameter	Single fibre coating dia: 200µm, 250µm, 500µm, 900µm Ribbon fibre thickness: 200~400µm
Standard performance	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)
	Heating time (typical)	28sec (FPS-6 sleeves, 40mm 1-12c Quick Mode)
	Splice & heat cycles per battery full charge *2	Approx 180
	Fibre view and magnification	2 CMOS cameras observation, 23X (zoom 46X)
	Proof test	1.96-2.09 N
Programmes	Applicable protection sleeve	60mm, 40mm & Sumitomo Electric nano sleeves
	Splice programmes	Max 300
Functions	Heating programmes	Max 100
	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 fibre count detection	Provided
	Automatic arc calibration	Automatically compensates for environmental condition changes
	Auto clamping adjustment system	Provided
	Reversible fibre holder system	Provided
	Dual automatic independent heaters	Provided
	User-selectable heater clamp operation	Provided
Size / Weight	Display of remaining Splice & Heat cycles	Provided (Battery mode)
	Onboard user training video	Provided
	Size	128 (W) x 154 (D) x 130 (H) mm (without anti-shock rubber)
Terminals	Weight	1.8kg(without Battery) / 2.1kg(with Battery BU-16)
	Monitor	5.0" touch screen colour LCD display
	DC output	DC 12V (for JR-7)
Power supply	USB port	USB2.0 (mini-B type)
	Storage media	SD/SDHC memory card MAX32GB
	AC input	AC 100-240V, 50/60Hz (ADC-16)
Operating condition	DC input	DC 10-15V, 7.5A
	Battery pack	Li-ion 10.8V, 6400mAh (BU-16)
Storage condition	Altitude : 0-3,660m, Temperature : -10-50°C, Humidity : 0-95%(non-condensing), Wind velocity : up to 15m/sec	
Electrode life *3	Temperature : -40-80°C, Humidity : 0-95%, Battery : -20-30°C(long term)	
Software updates	1,500 arc discharges	
Data management	Internet	
	Can be stored, edited and analysed by dedicated PC software	

\*1 : Average value of the final inspection in room temperature with Sumitomo Electric 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\*

Items	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.

## 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	CCW-72	1 pc
Working tray	WT-72	1 pc
V-groove cleaning brush	VGB-004	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

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

## Accessories

Product name	Part No.	Remarks
Fibre holder	FHS-025	For 0.25 mm single fibre
	FHS-09	For 0.9 mm single fibre
	FHM-2	For 2-fibre ribbon
	FHM-3	For 3-fibre ribbon
	FHM-4	For 4-fibre ribbon
	FHM-5	For 5-fibre ribbon
	FHM-6	For 6-fibre ribbon
	FHM-7	For 7-fibre ribbon
	FHM-8	For 8-fibre ribbon
	FHM-9	For 9-fibre ribbon
	FHM-10	For 10-fibre ribbon
	FHM-11	For 11-fibre ribbon
Spare electrode	FHM-12V	For 12-fibre ribbon
	PCH-12V	200um to 250um pitch changing holder for pliable fibre ribbon
Spare V-groove	Lynx2-UML-S	For φ3 mm cord and φ0.9 mm single fibre
	ER-10	For 250um pitch 12 fibre ribbon
Handheld cleaver	ER-10-200	For 200um pitch 12 fibre ribbon
	SVG01-1225	For 250um pitch 12 fibres (ER-10 & FHM-12V included)
Table-top cleaver	SVG01-1220	For 200um pitch 12 fibres (ER-10-200 & FHM-12N included)
	FC-8R-FC	Automatic blade rotation cleaver with cleave counter
Fibre arrangement tool	FC-8R-F	Automatic blade rotation cleaver
	FC-6R+	Automatic blade rotation cleaver
Jacket remover	OFA-02	Glue free fibre arrangement tool
	FTA-02	Glue type fibre ribbonizing tool
Fibre protection sleeve	JR-M03	Jacket remover for single fibre
	JR-7	Hot jacket remover for ribbon fibre
	FPS-1	60 mm sleeve for single fibre
	FPS-40	40 mm sleeve for single fibre
	FPS-5	40 mm sleeve for single fibre and up to 8-fibre ribbon
	FPS-6	40 mm sleeve for single fibre and up to 12-fibre ribbon
Alcohol dispenser	FPS-D60	60 mm sleeve for single-fibre drop, and indoor cables
	HR-4	—



Carrying case  
CCW-72



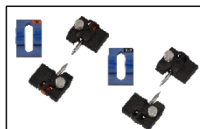
Working tray  
WT-72



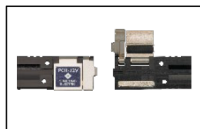
Table-top cleaver  
FC-6R+



Hot jacket remover  
JR-7



Spare V-groove  
SVG01-1225 (for 250um)  
SVG01-1220 (for 200um)



Pitch changing holder  
PCH-12V



Fibre arrangement tool  
OFA-02

Sumitomo Electric Industries, Ltd.

Designed in Japan

• Specifications are subject to change without prior notice.

SEEL part number TZA056DO0003-01 released 2024-01-02

T72M12+10-EMEA-EN001 (2023.12.14)