

Sumitomo 71M Ribbon Fusion Splicer



The Sumitomo 71M ribbon fusion splicer sets the standard for compact, rugged and versatile ribbon fibre splicing. With the ability to rapidly splice ribbon fibre cables, dual inbuilt heaters and simple user interface, the 71M allows for the efficient rollout of high fibre count networks.

The included onboard user training video simplifies unit operation for novice users. Automatic fibre count detection, loss estimation, auto clamping adjustment system, selectable heater clamp modes and reversible fibre holding system further streamline unit operation.

In addition to ribbon fibre splicing, provided fibre holders allow for the splicing of single fibres in both 250 and 900um, limiting the need for duplicate units.

Features & Benefits

- Fast 14 second splicing & 55 second heat cycle
- Patented dual independent automatic heaters
- Units compact size and light weight allows for convenient storage and transport
- IP52 rating and 72cm drop on 5 faces
- Automatic arc calibration ensures quality splice for a range of fibre types
- Touch-screen operation and onboard user training video
- Software updates and remote interactive maintenance via the internet
- Unique automatic blade rotation on included cleaver allows ~48,000 cleaves without user adjustment



Kit Contents

Each Sumitomo 71M ribbon splicer comes packaged with the following:

71M ribbon fusion splicer, FC-6RM-C cleaver, carry case/workstation, Li-ion battery, AC adapter and cord, hot jacket stripper and power leads, spare electrodes, 250um, 900um & 12f ribbon fibre holders, splice protector cooler tray, USB cable, operation manual and CD, carry strap and case key.

Additional accessories are available - contact FOS for details.

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For further information:
www.fibreoptic.com.au
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Technical Specifications

Part Number	SUMI-71M
Description	Sumitomo Type 71M Ribbon Fusion Splicer
Dimensions WxHxD (mm)	120 x 130 x 154 (without antishock rubber)
Weight (kg)	1.7 / 2.0 (without / with battery)
Splice loss (typical dB) ¹	SMF: 0.05, MMF: 0.02, DSF: 0.08, NZDSF: 0.08
Proof test (N)	1.96
Splice cycle time (s)	9 (Single fibre), 12 (4 Fibre), 14 (8-12 Fibre)
Heating cycle time (s)	45 (4/8 fibre), 55 (12 fibre)
Programs	Splicing: max 200, Heating: Max 100
Data capacity	64 images / 10,000 splice results
Fibre view & magnification	Two CMOS cameras, 23x for X & Y dual axis view
Monitor specifications	4.1" touch screen colour display
Interface ports	USB 2.0 (mini-B), 12V DC (suits hot jack remover)
Storage media	SD / SDHC memory card
AC input	100 ~ 240 V, 50 / 60 Hz (ADC-1430 adapter)
DC input	10 ~ 15 V
Battery module	Li-ion 11.1 V, 4600 mAh (BU-11 module)
Splice & heat cycles ²	110
Ingress protection ³	IP52
Shock resistance ³	76cm on 5 faces (excludes top face)
Operating altitude (m)	0 ~ 3660
Operating temperature (°C)	-10 to +50
Storage temperature (°C)	-40 to +80 (-20 to +30) ⁴
Storage/operating humidity (%)	0 ~ 95 (non-condensing)
Operating wind velocity (m/s)	0 ~ 15
Electrode life ⁵ (arc discharges)	1500

¹ Typical splice loss based on Sumitomo test fibres, results may vary depending on operating conditions and fibre quality

² Splice & heat cycles may vary depending on battery condition and environmental factors

³ Applies to continued unit operation, does not guarantee product is free of faults or damage

⁴ Long-term recommended battery storage conditions

⁵ Electrode life may vary depending on environmental factors

Fibre Requirements

Material	Silica glass	
Fibre profiles	SMF (ITU-T G.652), MMF (ITU-T G.651), DSF (ITU-T G.653), NZDSF (ITU-T G.655), BIF (ITU-T G.657)	
Fibre counts	1, 2, 4, 5, 6, 8, 10, 12 (may require additional fibre holders)	
Cladding diameter (um)	Ribbon: 125	Single: 125
Fibre coating thickness (um)	Ribbon: 280 ~ 400	Single: 250, 500, 900
Cleave length (mm)	10	

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