

# Sumitomo 71C Core Alignment Fusion Splicer



The Sumitomo 71C core alignment fusion splicer sets the standard for compact, rugged and versatile single fibre splicing. Universal clamps for 250um to 900um tight & loose buffer fibre, dual inbuilt heaters and simple user interface, the 71C is both an innovative and advantageous tool for optical fibre network rollouts.

The included onboard user training video simplifies unit operation for novice users. Bi-directional splicing operation, loss estimation, selectable heater clamp modes and reversible fibre holding system further streamline unit operation.

True core alignment technology ensures the best fibre alignment is achieved and is immune to the effects caused by irregular fibre concentricity.

## Features & Benefits

- Fast 7 second splicing & 28 second heat cycle
- Patented dual independent automatic heaters
- Units compact size and light weight allow 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 and operating conditions
- 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 71C splicer comes packaged with the following:

71C core alignment fusion splicer, FC-6RS-C cleaver, carry case/workstation, Li-ion battery, AC adapter and cord, 3 hole fibre stripper, spare electrodes, splice protector cooler tray, USB cable, operation manual and CD, carry strap and case key.

Additional accessories are available - contact FOS for details.

Active | Passive | Test Equipment | Tooling | Cable | Fibre Management

For further information:  
[www.fibreoptic.com.au](http://www.fibreoptic.com.au)  
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## Technical Specifications

Part Number	SUMI-71C
Description	Sumitomo Type 71C Core Alignment Fusion Splicer
Dimensions WxHxD (mm)	120 x 130 x 154 (without antishock rubber)
Weight (kg)	1.8 / 2.1 (without / with battery)
Splice loss (typical dB) <sup>1</sup>	SMF: 0.02, MMF: 0.01, DSF: 0.04, NZDSF: 0.04
Proof test (N)	1.96
Splice cycle time (s)	7.0 (Quick mode), 7.5 (SMF standard mode), 8.0 (Auto mode)
Heating cycle time (s)	28
Programs	Splicing: max 300, Heating: Max 100
Data capacity	64 images / 10,000 splice results
Fibre view & magnification	Two CMOS cameras, 88x for X & Y dual axis view, 320x for X or Y single 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 <sup>2</sup>	200
Ingress protection <sup>3</sup>	IP52
Shock resistance <sup>3</sup>	76cm on 5 faces (excludes top face)
Operating altitude (m)	0 ~ 6000
Operating temperature (°C)	-10 to +50
Storage temperature (°C)	-40 to +80 (-20 to +30) <sup>4</sup>
Storage/operating humidity (%)	0 ~ 95 (non-condensing)
Operating wind velocity (m/s)	0 ~ 15
Electrode life <sup>5</sup> (arc discharges)	3000

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

<sup>2</sup> Splice & heat cycles may vary depending on battery condition and environmental factors

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

<sup>4</sup> Long-term recommended battery storage conditions

<sup>5</sup> 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), EDF
Fibre counts	Single fibre
Cladding diameter (um)	80 ~ 150
Fibre coating thickness (um)	100 ~ 1000
Cleave length (mm)	5 ~ 16, 10 (Drop cable and 2.0mm indoor)

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