



Fujikura 12S Fusion Splicer

Introducing from Fujikura, the global leader in fusion splicer technology, the 12S, the world's smallest and light weight fusion splicer.

The lightweight and compact 12S has a long life battery providing technicians with 100 splice and heat cycles allowing ultimate portability for technicians. Delivering an average single-mode splice loss of 0.018 dB ensures excellent optical performance in a cost effective, light weight and robust cladding alignment fusion splicer.

Features and Benefits

- Compact (121 W x 162 D x 57 H mm) and lightweight (776 g including battery)
- Average single mode splice loss 0.018 dB
- Long-life electrodes providing 3000 splices
- Long-life battery providing 100 splice and heat cycles
- High contrast 11 cm display
- Compatible with FUSEConnect® splice-on connectors
- Supports 250 µm, 900 µm, 2 mm, 3 mm and drop cable fibre holders
- Ruggedised transit case/workstation



FUJCT30



FUJCT06

Fujikura 12S Fusion Splicer

Technical Specifications

Applicable Fibres	SM (ITU-T G.652 and G.657), MM (ITU-T G.651), NZDS (ITU-T G.655), DS (ITU -T G.653)
Fibre Count	Single
Cladding and Sheath Diameter	125 µm / 160 µm to 3 mm using fibre holders
Cleave Length	5 mm to 13 mm (5 mm requires CT30 cleaver)
Actual Average Splice Loss	0.05 dB with SM (average SM 0.018 dB), 0.02 dB with MM, 0.08 dB with NZDS, 0.08 dB with DS. Measured by cut-back method relevant to ITU-T and IEC standards.
Return Loss	>60 dB
Splice Time/Tube Heating Time	Typical 15 sec with SM/Typical 30 sec with FP-03 (60 mm) sleeve
Splicing Modes/Heating Mode	Total 100 splice modes/30 heating modes
Splice Loss Estimate	Available
Storage of Splice Result	The last 2,000 results to be stored in the internal memory
Fibre Display	X / Y
Magnification	100X for single X or Y view.
Viewing Method	2 axis CMOS camera with 11 cm color LCD. 100X
Operating Condition	Altitude: 0 to 3,660 m above sea level, Temperature: -10 to 50°C, Humidity: 0 to 95% RH non-dew
Wind Protection	Up to 15 m/s
Mechanical Proof Test	1.96 to 2.25 N
Tube Heater	Built-in tube heater with 10 heating modes and up to 20 modes for reference
Applicable Protection Sleeve Length	60 mm and 40 mm
Electrode Life	3000 splices
No. of Splice/Heating with Battery	Typical 100 cycles with BTR-10
Power Supply	100 V to 240 V AC with FUJADC-19 14.8 V Lilon (2000 mAh) Battery FUJBTR-10
Terminals	USB 2.0 mini-B (Firmware update and data management)
Dimensions	121 W × 162 D × 57 H (mm)
Weight	776 g including battery
Resistance features	776 g including battery

Splicer Packages

PART NUMBER	DESCRIPTION	
FUJFSM12S-K1	Fujikura 12S cladding alignment splicer kit with CT30 cleaver	
FUJFSM12S-K1	Fujikura 12S cladding alignment splicer kit with CT06 cleaver	
FUJFSM12S-K3	Fujikura 12S cladding alignment splicer kit	
All splicer kits include fusion splicer, cleaver and items listed below		
PART NUMBER	DESCRIPTION	QUANTITY
FUJADC19	AC adapter pack	1
FUJBTR-10	FSM-12S battery pack	1
FUJFSM-EL12S	Electrode set to suit 12S (1 fitted + 1 spare)	2
FUJFSMACC-xx	AC Power Cord	1
FUJAP-01	Alcohol Dispenser	1
FUJSD-01	Screw Driver	1
FUJSD-01 FUJFH-60-250	250 μm Fibre Holder Single Fibre to suit 12S (pair)	1
FUJFH-60-900	900 μm Fibre Holder Single Fibre to suit 12S (pair)	1
FUJCC-29	Ruggedised Carry Case	1

All splicer kits include isopropyl storage bottle, sharps container, 100 pk cotton tips, instruction CD and reference.

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Accessories

PART NUMBER	DESCRIPTION
FUJFSM-EL12S	Electrode set to suit 12S
FUJBTR-10	12S battery pack
FUJFH-60-250	250 µm Fibre Holder Single Fibre to suit 12S (pair)
FUJFH-60-900	900 µm Fibre Holder Single Fibre to suit 12S (pair)
FUJFH-60-DC250	250 µm Fibre Holder, Drop Cable
FUJFH-FC-20	900 µm Fibre Holder, 2 mm Cord
FUJFH-FC-30	900 µm Fibre Holder, 3 mm Cord
FUJFH-LT900	900 µm Fibre Holder, Loose Buffer
HTST250/9/2-E	Ergonomic fibre stripper, three hole
HTST250-E	Ergonomic fibre stripper, 250 µm
HTSCKEV-E	Ergonomic wire and Kevlar cutting shears
IDE5163	Loose tube cable stripper
IDE5164	Stripping tool (6.4-14.3 mm)
HTST4.5/29	Round cable stripper (4.5-29 mm)
MEN712	Alcohol dispenser
SPLPROT-HS-xxxx	Single fibre splice protector available in 2.5 mm and 3 mm thickness, 45 mm and 62 mm lengths, 12 pk and 100 pk sizes
AFC-RACKMATE	RackMate sliding work tray
AFCKIT-CABLEPREP	Fibre cable preparation kit
AFCKIT-CABLEPREP-CK	Fibre and cable cleaning consumables kit
FUJFSM-EXTWAR5Y	Fujikura splicer extended care plan, 70, 19, 12, FSM-60 Series – 5 Years



Workstation on Transit Case



Fujikura 12S Kit 1

