



Fusion Splicing Systems

Fujikura 70R Fusion Splicer



70R

The Fujikura 70R is equipped with a precision, fixed v-groove for splicing single fibers or ribbon fiber up to 12 fibers. Incorporating the proven ruggedized features pioneered by Fujikura, the 70R has added automated and enhanced user control features to increase splicing efficiency. A user programmable, automated wind protector expedites the splicing process by automatically closing to initiate the splice process, and opening upon splice completion. A new auto-start "clamshell design" tube heater applies heat to both sides of the splice protection sleeve resulting in a 40-second shrink time for 12-fiber ribbon. The result is a total splice process time of approximately 55 seconds! Ruggedness and durability are greatly enhanced by a mirror-less optical system and "severe-impact resistant" monitor. Battery capacity is now 110 splices/shrinks. An innovative transit case doubles as a built-in or mobile workstation and makes splicing easier than ever before.



In case with lid detached

Features

- Automated and programmable wind protector
- 40-second automated tube heater
- Fully ruggedized for shock, dust and moisture
- Li-ion battery with 110 splices/shrinks per charge
- On-board training and support videos
- Internet software upgrades
- Multi-function transit case with integrated workstation

Ordering Information



DESCRIPTION	AFL NO.
70R Fusion Splicer (machine only) Includes: ADC-18 AC Adapter, ACC-14 AC Cord, ELCT2-20A Spare Electrodes (pair), FH-50-12 Fiber Holder, USB Cable, Alcohol Dispenser, Screw Driver, Sleeve Loader, Splicer Carrying Strap, Quick Reference Guide, Video Instruction Manual and CC30 Transit Case with Carrying Strap	S015669
70R Fusion Splicer Kit (with cleaver) Includes: CT30 Cleaver, HJS-02 Stripper, ADC-18 AC Adapter, ACC-14 AC Cord, ELCT2-20A Spare Electrodes (pair), FH-50-12 Fiber Holder, USB Cable, Alcohol Dispenser, Screw Driver, Sleeve Loader, Splicer Carrying Strap, Quick Reference Guide, Video Instruction Manual and CC30 Transit Case with Carrying Strap	S015670
70R Fusion Splicer Kit (with cleaver, battery and cord) Includes: BTR-09 Battery, DCC-18 Battery Charge Cord, CT30 Cleaver, HJS-02 Stripper, ADC-18 AC Adapter, ACC-14 AC Cord, ELCT2-20A Spare Electrodes (pair), FH-50-12 Fiber Holder, USB Cable, Alcohol Dispenser, Screw Driver, Sleeve Loader, Splicer Carrying Strap, Quick Reference Guide, Video Instruction Manual and CC30 Transit Case with Carrying Strap	S015671
One Year Extended Warranty	S012996
Two Year Extended Warranty	S013000

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Accessories Recommended for the 70R

DESCRIPTION	AFL NO.
Cleavers and Strippers	
CT-30 Cleaver	S014076
HJS-02 Hot Jacket Stripper	S010340
Fiber Holders (pairs)	
FH-50-12	S013828
FH-50-10	S013824
FH-50-8	S013820
FH-50-6	S013816
FH-50-4	S013812
FH-50-2	S013808
FH-50-250 (250 µm coated single fiber)	S013800
FH-50-900 (900 µm jacketed single fiber)	S013804
FUSEConnect™ Accessories	
FH-FC-20 (900 µm within 2.0 mm sheathing) (each)	S014696
FH-FC-30 (900 µm within 3.0 mm sheathing) (pair)	S014695
FH-FC-900 (900 µm cable) (each)	S014697
CLAMP-FC-2000 (pair)	S014705
CLAMP-FC-3000 (pair)	S014704

DESCRIPTION	AFL NO.
Batteries and Power Cords	
ADC-18 AC Adapter	S015585
BTR-09 Battery	S015581
DCC-18 Battery Charge Cord	S015582
DCC-12 Power Cord (connects ADC-13 to cigarette lighter socket)	S013552
DCC-13 Power Cord (connects ADC-13 to power source via alligator clips)	S013556
ACC-14 AC Power Cord	S014536
Miscellaneous	
ELCT2-20A Electrodes	S013532
Portable Tripod Workstation (see product profile for more detail)	S014773
ASW-02 Splicing Workstation (see product profile for more detail)	S010532
FST-12 Fiber Separation Tool	S014012
FAT-04 Fiber Arrangement Tool	S010212
FAA-03A Ribbon Forming Adhesive (4 oz. bottle)	S008720
FAA-03A Ribbon Forming Adhesive (0.5 liter bottle)	S008622
CC-30 Transit Case	S015587

Specifications

PARAMETER	VALUE
Model	FSM-70R Fusion Splicer
Applicable Fibers	Single-mode (G.652 & G.657), Multimode (G.651), DS (G.653), NZDS (G.655)
Fiber Count	Single, 2, 4, 5, 6, 8, 10, 12
Cladding Diameter	125 µm
Coating Diameter	Ribbon: 0.25 mm to 0.4 mm, Single: 250 µm and 900 µm
Fiber Cleave Length	10 mm
Typical Average Splice Loss	0.05 dB with SM, 0.02 dB with MM, 0.08 dB with DS, 0.08 dB with NZDS; measured by cut-back method relevant to ITU-T and IEC standards
Splicing Time	Typical 15 seconds with standard single-mode fiber
Arc Calibration Method	Automatic, real-time by using results of previous splice when in AUTO mode; manual arc calibration function available
Splicing Modes	100 preset and user programmable modes
Splice Loss Estimate	Based upon dual camera cladding alignment data
Storage of Splice Result	Last 2000 splice results stored in the internal memory
Fiber Display	X or Y, or both X and Y simultaneously; front or rear monitor display options with automatic image orientation
Magnification	35X to 90X
Viewing Method	Dual cameras with 4.7 inch TFT color LCD monitor with anti-reflective coating
Operating Condition	0 to 3,660 m above sea level, 0 to 95% RH, and -10 to 50°C respectively
Mechanical Proof Test	1.96 to 2.25 N
Tube Heater	Built-in tube heater with 30 heating modes; auto-start function
Tube Heating Time	Typical 40 seconds with FP-5 sleeve, 17 seconds with FP3 (40), 5-15 seconds with Fujikura micro sleeves
Protection Sleeve Length	60 mm, 40 mm, Micro
Splice/Heat Cycles with Battery	Typical 110 cycles with power save functions activated
Electrode Life	1,500 Arc Discharges
Power Supply	Auto voltage selection from 100 to 240V AC or 10 to 15V DC with ADC-13, 13.2V DC with BTR-08 battery
Terminals	USB 1.1 (USB-B type) for PC communication, Mini-DIN (6-pin) for HJS-02/03 and SH-8 tube heater
Wind Protection	Maximum wind velocity of 15m/s (34 mph)
Dimensions	146 W x 159 D x 150 H (mm) / 5.7 W x 6.3 D x 5.9 H (inches)
Weight	2.3 kg (5.1 lbs) with AC adapter; 2.5 kg (5.5 lbs) with battery