Specifications

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 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-18, 14.8V DC with BTR-09 battery

Terminals USB 2.0 (USB-B type) for PC communication and Mini-DIN (6-pin) for RS02/RS03

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