ALCOA **AFL** Telecommunications

fusion splicing systems

FSM-40R24

Designed to meet the needs of today's high fiber density networks, the FSM-40R24 has the capability to splice ribbons as large as 24 fibers as well as single fibers. Ultra compact and lightweight, this unit features a built-in AC adapter and a dual axes optical path system to provide fully automatic, low splice loss performance in less than 50 seconds for SM, MM, DS, and NZ-DS fiber types. Individual splice loss is estimated for each splice, and 36 pre-programmed splicing modes and five pre-programmed heater modes allow for specialized splicing and various splice protector sleeve types. Memory also permits 30 user defined splice mode settings and 10 splice protection sleeve heater settings, as well as storage of downloadable splice data for 80 24-fiber splices or 320 single fiber splices. The large, color LCD screen displays all 24 fibers simultaneously in alternate axes.

features

- Compact and light with built-in AC adapter
- Color LCD screen displays all 24 fibers simultaneously
- Uses standard Fujikura fiber holders
- Self diagnostic mode
- Stores splice data for 80 24 fiber splices
- Electrode and fiber guide positions automatically adjust for different fiber counts

specifications

PARAMETER	VALUE
Fiber Splicing Capability	SM, MM, NZ-DS (non-zero dispersion shifted), & DS
Multiple Fiber Splicing Capability	SM 1, 2, 4, 6, 8, 12, 16, and 24 MM 1, 2, 4, and 6 NZ-DS 1, 12, 16, and 24 DS 1, 2, 4, and 6
Fiber Dimensions	125 +/- 2µm with core eccentricity 1µm or less
Typical Splice Loss	0.05dB for SM, 0.03dB for MM, 0.08dB for DS, and 0.08dB for NZ-DS
Return Loss	>60dB
Fiber Cleave Length	10mm
Viewing Method	5" TFT color LCD monitor with 16.5X magnification, external RCA jack for NTSC video signal
Splice Protection Sleeve Heating Time	Less than 120 seconds with FPS24-40 protection sleeves. 100/125 sec with 40/60mm protection sleeves
Atmospheric Compensation	Automatic compensation for temperature and altitude (Up to 3500m for 1-12F, 3000m for 16F, and 1800m for 24F splicing)
Splice Programs	30 programmable and up to 96 in database area
Splice Sleeve Programs	5 fixed, 10 programmable
Operating Conditions	-10° to 50°C, 0 to 95% humidity, non-condensing
Storage Conditions	-40° to 80°C, 0 to 95% humidity, non-condensing
Power Supply	AC 100 to 240V, 50 to 60Hz / DC 10.5 to 14V (standard 12V)
Dimensions (W x D x H)	160mm x 170mm x 180mm
Weight	4.3kg
Splice Data Storage	91 24-fiber splices or 320 single fiber splices, downloadable to PC
Splicing Time	50 seconds or less for 24-fiber ribbon, 40 seconds or less with single to 12-fiber ribbon splicing
Proof Test	1.96N (200gf)
Wind Protection	Up to 15 m/s (33 mph)

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www.AFLtele.com or 1.800.235.3423

FSM-40R24

ordering information

DESCRIPTION	PART #
FSM-40R24 Fusion Splicer (Machine Only) Each FSM-40R24 Splicer comes with power cord, spare electrodes (pair), FH-24 fiber holders, operation manual, and transit case	S012956
FSM-40R24 Fusion Kit Kit includes fusion splicer and related components plus, the HJS-03-24 Hot Jacket Stripper, HJS-03-24PA power assist tool and CT-20 mass fiber cleaver with optional FC-01 fiber collector.	S012980

accessories recommended for 40R24

DESCRIPTION	PART #
Cleavers	
CT-20 Cleaver	S012736
FC-01 Fiber Collector System	S012760
CT-20 Cleaver with FC-01 Fiber Collector System	S013236
Stripper	
HJS-03-24 Hot Jacket Stripper with DC Cord	S012960
HJS-03-24PA Hot Jacket Stripper Power Assist Tool	S012964
Fiber Holders	
FH-24 (24 fibers)	S012968
FH-16 (16 fibers)	S012988
FH-12 (12 fibers)	S010220
FH-10 (10 fibers)	S010348
FH-8 (8 fibers)	S010352
FH-6 (6 fibers)	S010356
FH-4 (4 fibers)	S010360
FH-2 (2 fibers)	S010364
FH-250 (250µm coated single fiber)	S010368
FH-900 (900µm jacketed single fiber)	S010372
Miscellaneous	
Electrodes (pair)	S012984
FAT-02 Fiber Arrangement Tool	S002111
FAT-04 Fiber Arrangement Tool (Up to 12F)	S010212
FAA-03 Ribbon Forming Adhesive (4 oz. bottle)	S008720
FAA-03 Ribbon Forming Adhesive (0.5 liter bottle)	S008622
One year extended warranty (splicers) for FSM-40R24	S012996
Two year extended warranty (splicers) for FSM-40R24	S013000