Winchester Electronics Presents...

Customized Fujikura Fusion Splicer

Winchester Electronics has partnered with the global leader in fusion splicing technology, AFL Telecommunications, to design a customized Winchester KINGS® Brand, Fujikura fusion splicer for our HDTV Fiber Optic Tri-Loc® Camera Connectors and EL-Series™ Video Patching System. This partnership provides Winchester customers with the best performance and value in the industry.

Our fixed V-groove and core alignment models incorporate a user-friendly interface with enhanced features to provide the most rugged and reliable fusion splicers in the market today. The new rugged construction adds improved reliability by resisting shock, dust, and rain, and can withstand a 30” drop test.

Product Benefits:

- Dual purpose design enables quick and easy conversion between standard single fiber fusion splicing and Winchester’s fiber splicing needs.
- Rugged construction providing shock, dust, and moisture resistance.
- Dual monitor position with automatic image orientation.
- Automatic arc calibration and fiber identification.
- User-selectable fiber clamping method - sheath clamp or fiber holders.
- Rugged SMPTE 311 cable holder for ease of use during splicing in the field.
- Auto-start tube heater feature.
- Color LCD display with anti-reflective coating for excellent visibility in bright sunlight.
- Simultaneous battery charge and splicer operation.
- Long battery life (up to 160 splice/heat cycles per charge).
- Detachable work table incorporated into the transit case.
- Data and video download software included; software upgrade available via the internet.
- Green friendly - RoHS & WEEE compliant.

KINGS® by WINCHESTER ELECTRONICS

Parts and Accessories

	FSM-18S V-Groove	FSM-60S Core Alignment
Fusion Splicer Kit with Winchester KINGS® Fiber Optic Tri-Loc® Modification (with cleaver) Includes: CT30A Cleaver, ADC-13 AC Adapter, ACC-14 AC Cord, Spare Electrodes (pair),Sheath Clamp, USB Cable, Splicer Carrying Strap, Quick Reference Guide, Video Instruction Manual, JP-05 Splice Sleeve Cooling Tray, and Transit Case with Carrying Strap	KTH-2315	KTH-2328
Fusion Splicer Kit with Winchester KINGS® Fiber Optic Tri-Loc® Modification (with cleaver, battery and cord) Includes: BTR-08 Battery, DCC-14 Battery Charge Cord, CT30A Cleaver, ADC-13 AC Adapter, ACC-14 AC Cord, Spare Electrodes (pair), Sheath Clamp, USB Cable, Splicer Carrying Strap, Quick Reference Guide, Video Instruction Manual, JP-05 Splice Sleeve Cooling Tray, and Transit Case with Carrying Strap	KTH-2330	KTH-2329

Accessories for FSM-18S/60S	Part Number
Cable Clamp for Fiber Optic Tri-Loc® Cable	KTH-2331
Fiber Holder for Fiber Optic Tri-Loc® Cable	KTH-2332
Fiber Holder for Fiber Optic Tri-Loc® Termini	KTH-2333
Fiber Optic Tri-Loc® Modification Upgrade for Standard FSM-60S/18S	KTH-2334
Fiber Holder for EL Series™ DIN Terminal	KTH-2335
CT-30A Cleaver (SO14080) Single Fibers: 250-900µm coating, 125µm cladding	KTH-2340
Fiber Optic Tri-Loc® CT-30A Cleaver Base / Use with Cable Clamp	KTH-2341

Specifications

Model	FSM-18S	FSM-60S
Cladding Diameter	125µm	100µm to 1,000µm
Typical Average Splice Loss	0.05dB with SM, 0.02dB with MM, 0.08dB with DS, 0.08dB with NZDS, measured by cut-back method relevant to ITU-T and IEC standards	0.02dB with SM, 0.01dB with M , 0.04dB with DS, 0.04dB with NZDS. Measured by cut-back method relevant to ITU-T and IEC standards
Splicing Time	Typical 11 seconds with standard single-mode fiber	Typical 9 seconds with standard single-mode fiber
Splice Loss Estimate	Based upon dual camera cladding axis alignment data	Based upon dual camera core alignment data
Operating Condition	0 to 3,660m above sea level, 0 to 95% RH, -10 to 50°C respectively	0 to 5,000m above sea level, 0 to 95%RH and -10 to 50°C respectively
Splice/Heat Cycles w/ Battery	Typical 150 cycles with power save functions activated	Typical 160 cycles with power save functions activated
Weight	2.1 kg (4.6 lbs) with AC adapter ADC-11; 2.5kg (5.5 lbs) with BTR-08 battery	2.3 kg (5.1 lbs) with AC adapter ADC-11; 2.7kg (5.9 lbs) with BTR-08 battery
Applicable Fibers	Single-mode (ITU-T G.652), multimode (ITU-T G.651), DS (ITU -T G.653), NZDS (ITU-T G.655)	
Coating Diameter	100µm to 1000µm	
Fiber Cleave Length	8 to 16mm with 250µm coating diameter, 16mm with 900µm coating diameter	
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	
Storage of Splice Result	Last 2000 results to be stored in the internal memory	
Fiber Display	X or Y, or both X and Y simultaneously; front or rear monitor display options with automated image orientation	
Magnification	300X for single X or Y view, or 187X for X and Y view	
Viewing Method	Dual cameras with 4.1 inch TFT color LCD monitor with anti-reflective coating	
Mechanical Proof Test	1.96 to 2.25N	
Tube Heater	Built-in tube heater with 30 heating modes; auto-start function	
Tube Heating Time	Typical 30 seconds with FP-03 sleeve, 35 seconds with FP3 (40), 35-55 seconds with Fujikura micro sleeves	
Protection Sleeve Length	60mm, 40mm, micro	
Power Supply	Auto voltage selection from 100 to 240V AC or 10 to 15V DC with ADC-1, 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	136W x 161D x 143H (mm) / 5.3W x 6.3D x 5.6H (inches)	

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