

FITEL S153-HD

Active XYZ Clad Alignment Splice On Technology for SMPTE 311 HD Cables

LEMO has partnered with 3SAE Technologies, Inc., offering an exclusive breakthrough technology allowing for both factory and on-site termination by replacing the fiber optic connector polish process with a spliced fiber contact connector. This process removes the need for the fiber epoxy and polish process, allowing for a quicker and simpler termination process for build-to-order, installation, or field repair applications.

Fusion splice equipment has been used in field fiber applications for years and is now available to benefit the broadcast industry. This proven technology greatly reduces the time and the level of expertise required for terminating the LEMO fiber optic hybrid connectors. This termination process makes it much easier to attach or repair SMPTE connectors in the field due to the simplicity, portability, and reliability of fusion splicing.

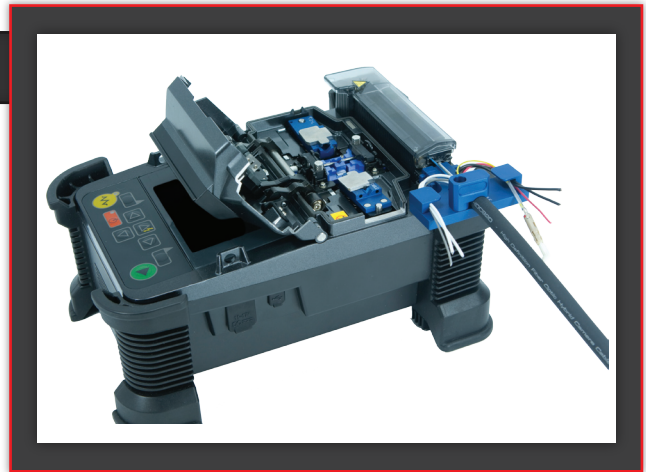
The hand-held FITEL S153-HD incorporates an improved heating design that cuts splice-to-heat time by 40 percent. The unit's T-shaped body design is also 40 percent lighter, weighing only 4.85 pounds including battery. Ideal for fast field use with superb battery life. In addition, fiber magnification power is 608X, marking the industry's most powerful rating for a core alignment splicer.

The S153-HD uses an 'Active clad alignment' function, which achieves lower splicing loss with less user skills required compared to a conventional Fixed V-groove Clad Alignment Fusion Splicer.

This machine is designed to endure harsh operating conditions by improving shock / impact resistance with rubber pads embedded on 4 corners of the splicer body. This fusion splicer also achieves water resistance compliant to IPX2 and dust resistance compliant to IP5X.

Another key feature of the S153-HD is the significantly reduced operation time. Protection sleeve shrink time is mere 25 seconds. Power saving technology used in these machines allows up to 200 splicing cycles (splicing and heating) with 2 built in rechargeable batteries.

By combining improved speed, precision, durability and portability in one body, the S153-HD ushers in entirely new possibilities for fusion splicing applications.



Key Features:

- Active V-groove, More Reliable than conventional Fixed V-groove machines
- Rugged and compact hand held design for demanding environmental conditions
- Fast splice (9 sec) at super low loss and Fast Heating (25 sec)
- 200 cycles (Splicing & Heating) with Fitel series battery configuration
- Available for All METRO/LAN/FTTx fibers including ultra bend-insensitive fibers (e.g. EZ-Bend™)
- Splicer is compatible with the Seikoh Giken and Diamond Splice-on-connector (SOC)
- Easy maintenance - Toolless electrode replacement/mirror free alignment system
- Easy Software upgrade via the Internet
- Easily exchanged fiber holder systems (tight holder/fiber holder/ SOC holder)
- PC interface software to allow user manage splicing programs and results
- Auto-start shrink sleeve oven feature
- Improved GUI to further enhance ease-of-use
- Large memory for storing data (2,000 splice data) and image (100 images)
- RoHS compliant

Technical Specifications:

- Applicable fibers:** SM (ITU-T G.652), MM (ITU-T G.651), DSF (ITU-T G.653), NZD (ITU-T G.655), BIF/UBIF (Bend insensitive fiber, ITU-T G.657)
- Cladding Diameter:** 80~150 μ m
- Splice Time:** 9 seconds (semi-auto mode); 11 seconds (regular mode)
- Heating Time:** 25 seconds (S922: 40mm Sleeve, S921: 60mm Sleeve) (Pre-heat mode); 31 seconds (S922: 40mm Sleeve, S921: 60mm Sleeve) (regular mode)
- Battery Capacity:** Typical 80 splice/heat cycles with single battery; Typical 200 splice/heat cycles with 2 batteries
- Dimension (mm):** 127W \times 199D \times 105H mm (not including shock absorber); 159W \times 231D \times 130H mm (including shock absorber)
- Weight ((kg):** Excluding Batteries: 1.7 kg (without battery); 2.1 kg (with two batteries)

*INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE.