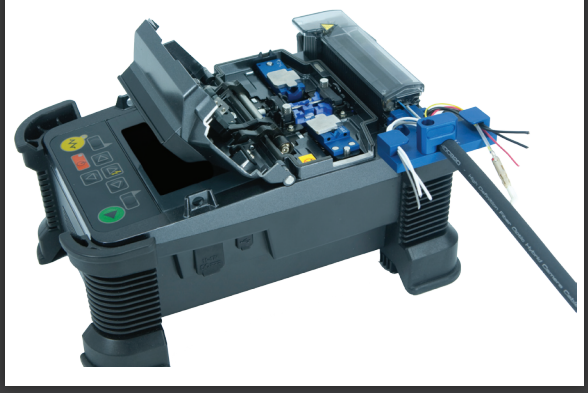
3SAE Technologies, Inc.

A PHOTONICS REVOLUTION

FITEL S178-HD



Core 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 FITEL S178-HD Hand-Held Core-Alignment Fusion Splicer is the latest, state-of-the art addition to the S17X series of splicers. By combining speed, precision, durability and portability in one unit, the S178-HD Fusion Splicer ushers in an entirely new range of applications for core alignment splicing.

Equipped with a new alignment system that can save up to 20% on splicing time, the S178-HD Splicer's improved heating mechanism can also reduce protection sleeve shrink time by more than 30%. In addition, a newly incorporated USB 2.0 interface speeds PC communication and image/video transfer, while enhancing reliability.

Although the S178-HD Fusion Splicer is significantly smaller and lighter in weight than previous models, its canopy design, durable metal body frame and rubber protection corners provide robust protection, enabling use in demanding environments without compromising splicing performance. Along with its rugged durability, the splicer also offers convenience. A new battery system allows up to 200 splicing cycles (splicing/heating) before additional batteries are needed, and an innovative, mirror-free alignment system makes maintenance work a snap.

While the S178-HD Fusion Splicer is fast and durable, it continues the FITEL tradition of quality and excellence by delivering precise, accurate splices even under rigorous conditions in the field. The S178-HD Fusion Splicer is your logical choice for a wide range of uses including FTTX, LAN, backbone, enterprise, long-haul installations, data-center and/or OEM applications. It is also an excellent option for use in the conventional telecommunications industry, along with other industries (including oil and gas).

Key Features:

- Rugged and compact handheld design endures harsh environmental conditions
- Fast splicing (7 seconds) at super low loss and fast heating (25 seconds) 1
- 200 cycles (splicing & heating) with new battery configuration
- Available for all METRO/LAN/FTTX fibers including ultra bendoptimized fibers (e.g. EZ-Bend® Fibers)
- Splicer is compatible with the OFS, Diamond2 and Seikoh Giken3 Splice-on-Connectors (SOC)
- Easy maintenance – Easy 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 management of splicing recipes and results
- Auto-start shrink sleeve oven feature
- Improved GUI to further enhance ease of use
- Large memory for storage of splice data (2,000) and images (100)
- RoHS compliant

Technical Specifications:

Applicable Fibers: SM, MM, DSF, NZD, EDF, BIF/UBIF

Cladding Diameter: 80 ~ 150 µm

Coating Diameter: 160 ~ 900 µm

Fibers Cleave Length: 5 ~ 16 mm

Average Splice Loss: SM: 0.02 dB, MM: 0.01 dB, DSF: 0.04 dB, NZD: 0.04 dB

Splice Time: 7 seconds (semi-auto mode), 9 seconds (regular mode)

Heat Time: 25 seconds (S922: 40 mm Sleeve, S921: 60 mm Sleeve)

Splice Programs: Up to 150

Dimension: 127W × 199D × 105H mm (not including shock absorber) 159W × 231D × 130H mm (including shock absorber)

Weight: 1.9 kg (without battery), 2.3 kg (with two batteries)

Monitor: 3.5" color LCD monitor

Data Output: USB ver.2.0 mini

Power Source: AC Input 100 to 240 V (50/60 Hz), DC Input 11 to 17 V

**INFORMATION IS SUBJECT TO CHANGE WITHOUT NOTICE.*

615.778.8812
INFO@3SAE.COM

MADE IN THE USA
WWW.3SAE.COM