LEMO HEADQUARTERS

Chemin des Champs-Courbes 28 - P.O. Box 194 - CH-1024 Ecublens Tel. (+41 21) 695 16 00 - Fax (+41 21) 695 16 01 - e-mail: info@lemo.co

LEMO SUBSIDIARIES

AUSTRIA LEMO Elektronik GesmbH JAPAN LEMO Japan Ltd

CHINA
LEMO Trading (Shanghai) Co., Ltd
LEMO Electronics (Shanghai) Co., Ltd
5th Floor, Block 6, City of ELITE,
1000 Jinhai Road, Pudong
Shanghai, China 201206
Tel: (+86 21) 5899 7721
Fax: (+86 21) 5899 7727

DENMARK LEMO Denmark A/S

Tel: (+45) 45 20 44 00 Fax: (+45) 45 20 44 01

FRANCE LEMO France Sàrl

77607 Marne la Vallée Cedex 3 Tel: (+33 1) 60 94 60 94

GERMANY LEMO Elektronik GmbH

HONG KONG LEMO Hong Kong Ltd

HITEC, 1 Trademart Drive Kowloon Bay - Hong Kong Tel: (+852) 2174 0468

Tel: (+36 1) 421 47 10 Fax: (+36 1) 421 47 57

Tel: (+39 02) 66 71 10 46

NETHERLANDS / BELGIUM LEMO Connectors Benelux

NORWAY / ICELAND LEMO Norway A/S Stanseveien 6B

SPAIN / PORTUGAL

Madrid Office Antonio López, 96, 28019 Madrid Tel: (+34 91) 469 99 19 Fax: (+34 91) 469 99 59

SWITZERLAND

UNITED KINGDOM LEMO UK Ltd

LEMO USA. Inc.



For more information on the Fusion Splicer, Contact:

3SAE Technologies, Inc.

318 Seaboard Lane, Suite 212, Franklin, TN 37067 Tel: 615-778-8812 Fax: 615-778-8816

Email: Sales@3sae.com www.3sae.com

For more information about LEMO Connectors, Contact:

LEMO USA, Inc.

1-800-444-5366

Email: broadcast-info@lemo.com www.lemo.com

Demos, Certification, Installation Services and On-Site Training are also available!



FIBER OPTIC CONNECTION SYSTEM WITH

FUSION SPLICING TECHNOLOGY

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.











S153A-HD Technical Specifications

Characteristic	Value
Splicing Method	Clad-Alignment
Fiber Type	SM (ITU-T G.651), MM (ITU-T G.651), DSF (ITU-T G.653), NZD
	(ITU-TG.655) BIF/UBIF (Bend Insensitive fiber, ITU-T G.657)
Cladding Diameter	80um – 150um
Coating Diameter	160um – 900um
Average Loss	SMF: 0.04dB, MMF 0.02dB, DSF 0.06Db, NZD: 0.06dB
Splice Time	9 seconds (semi-auto mode) 11 seconds (regular mode)
Heat Time	25-second(semi-auto mode) 31 seconds (regular mode)
Applicable Sleeves	20mm, 40mm, 60mm
Cleave Length	5~16mm
Magnification	Up to 76X, 235X
Image Capture Capacity	Last 100 images automatically captured. + Up to 24
	images to be stored permanently
Dimensions	159W X 231D X 130H mm
Power AC Input	100 to 240 VAC (50/60Hz)
DC Input	11 to 17VDC, Battery: Li-ion
Battery	Internal Battery – Typical 80 splice/heat cycles with single battery
	Typical 200 splice/heat cycles with dual batteries

Spliced fiber connections, protected by LEMO's 3K.93C connector shells, have negligible insertion loss, and are not affected by temperature extremes. Fusion splices combine the best of pre-terminated contacts and continuous fiber connectors.

Features and Applications:

- On-site fusion splicing eliminates the difficulty of polishing. The pre-polished fiber contacts are tested and inspected to ensure 100% compliance. Now every fiber termination has LEMO factory quality.
- Repair damaged LEMO fiber optic cables on site, eliminating costly down time and shipping charges.
- Use this system to splice other standard 125um fibers with 250um and 900um coatings.
- Use splicing technology with cables, patch panels and bulkhead mounted connectors.
- Pull cable through conduit to required lengths and terminate on-site rather than pre-ordering complete cable assemblies with estimated lengths. This eliminates waste and the potential for damaged connectors.

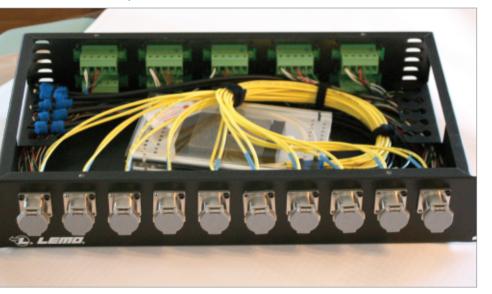


Splice Memory

Operating Environment

Data Output

Rack Mount Splice Box



LEMO Connector Specifications

0-5000m, -10 to +50C and 90% at 38C

Optical

2000 splices

USB ver.2.0 mini

Characteristic	Value
Insertion loss, at 1300 nm	< 0.5 dBm
Return loss, at 1300 nm	≥ 45dBm
Fiber core/cladding Dia.	9/125 μm

Electrical

Characteristic	Value
Max Working Voltage -	
High Voltage Pins	> 600 Vrms
Low Voltage Pins	> 60 Vrms
Max Current, continuous	
High V. Pins	10 Amp
Low V. Pins	3 Amp
Shell to Shell Resistance	< 2mOhm

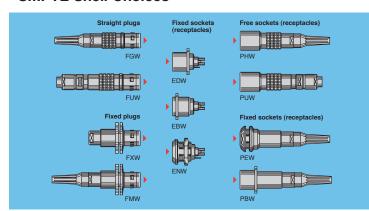
Environmental / Mechanical

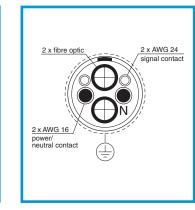
Characteristic	Value
Durability	
Stainless Steel Shell	> 10,000 cycles
Temperature	-40° C to +80° C
Humidity	
40° C for 96 hours	90-95%
Water Protection	IP 68:
	1.8m, for 48 Hr.
Drop onto Concrete floor	2 m
Shock 10-5m mSec	100 g
6-9 mSec	20 g
Cable Retention	1000N

Specs subject to change



SMPTE Shell Choices





 Extended midpiece for Fusion Splice Process



LEMO Part Number	Description
FUW.3K.93C.TLMC96	Straight Plug
PUW.3K.93C.TLCC96	Straight Receptacle
PBW.3K.93C.TLCC96Z	Panel Mount Receptacle
FMW.3K.93C.TLMC96Z	Panel Mount Plug
PEW.3K.93C. TLCC96Z	Panel Mount Receptacle
3K.93C.U0729	Extended midpiece for Fusion Splice Process
RSS. F2. BAZ.U0729	2x pre-terminated F2 contacts and clear sleeves
BRR.3K.200.PZSG	Spring loaded dust cap
BRF.3K.200.U0743A	SS cap - Plug w/ lanyards
BFW.3K.100.U0708A	SS cap - Receptacle w/ lanyards
WST.EL.93C.Plug	Repair Kit (Elec. parts for 3K.93C Plugs)
WST.EL.93C.RCPT	Repair Kit (Elec. parts for 3K.93C Receptacles)
U0638A	Rack Mount Splice Box
GMP.3K.085.U0729	Full Body Boot – Receptacle – PUW
GMF.3K.085.U0729	Full Body Boot – Plug – FUW

Part numbers subject to change













