

Appendix A1Maintenance of F2 contacts in 3K.93C Connectors

It is essential for the ferrule endfaces of the LEMO F2 contacts to be clean and free from any kind of debris in order to ensure the correct performance and operation of the system. It is strongly recommended that the ferrule endfaces are regularly inspected in situ using a commercially available video inspection microscope (e.g. Noyes, Aerotech, Westover, Exfo, Lightel, Diamond or similar) fitted with a 2mm ferrule adaptor suitable for the LEMO F2 fibre optic contact. Photographs of what constitutes a clean, undamaged endface can be found in the LEMO General and Guidance document SQL-04-025E. In general use, if after mating a connector pair an unexpectedly high insertion loss is encountered which results in the system not operating, then all suspect fibre optic ferrule endfaces should be cleaned using 'S' grade Isopropyl Alcohol (IPA) and the ferrules thoroughly dried before re-trying the system.

Two methods are shown below which detail the cleaning procedure for contacts in 3K.93C plug style connectors (types FGW, FUW, FXW and FMW). Inspection and cleaning the ferrules in 3K.93C socket connectors (types EDW, EBW, ENW, PHW. PUW, PEW and PBW) is simpler as the contact endfaces are clearly visible from the front of the connector. In this case follow the instructions for a plug style connector but omit the alignment sleeve removal and replacement steps.

Method A utilises the robust LEMO cleaning tool DCS.91.F23.LA which is designed more for the regular/routine maintenance operative. Method B is designed more for the occasional "trouble shooting" field operator as the tools used are smaller, lighter and therefore easier to carry.

Method A

Working from the front of the connector, screw the internally threaded end of the LEMO cleaning tool DCS.91.F23.LA onto one of the F2 alignment devices and, with a firm pulling action, remove it from the contact.





Unscrew the endcap from the tool, and remove a new cotton bud



Moisten one end of the cotton bud by pressing it into the sponge containing S grade Isopropyl Alcohol.



Clean the ceramic ferrule by applying the alcohol damped end of the cotton bud to the ferrule end face and gently wiping it across the endface.



Using the dry end of the lint free cotton bud, apply to the ferrule face and gently wipe across it. This will thoroughly dry the ferrule.

Use a cotton bud end once only as they quickly become contaminated.

Refit the alignment device by positioning it over the ferrule and with a firm push engage it onto the ferrule body with an audible "click", then unscrew the tool.

Method B

Working from the front of the connector, screw one of the internally threaded ends of the LEMO cleaning tool DCS.F2.035.PN onto one of the F2 alignment devices and, with a firm pulling action, remove it from the contact.





Get ready a LEMO WST.KI.125.34 Cleaning Kit of two cotton buds



Peel open the backing foil from the blister pack to release the two cotton buds inside. Select the alcohol-moistened bud.



Clean the ceramic ferrule by applying the alcohol damped end of the cotton bud to the ferrule end face and gently wiping it across the endface.

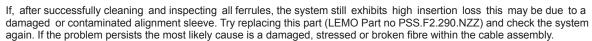


Select the dry cotton bud and using one end of it, apply to the ferrule face and gently wipe across it. This will thoroughly dry the ferrule.

Use a cotton bud end once only as they quickly become contaminated.

Refit the alignment device by positioning it over the ferrule and with a firm push engage it onto the ferrule body with an audible "click", then unscrew the tool.









Our hybrid fiber connector cleaning kit is designed by broadcast professionals for Lemo SMPTE 311M connector cleaning.

Item Includes:

- Electro Wash PX Non-Residue Fiber Optic Cleaner
- (1) 100 Pack 4x4 Lint-Free Precision Wipes
- (1) LEMO SMPTE Hybrid Alignment Tool
- (1) IBC One-Click Cleaning Tool with 2.0mm Tip
- (1) SMPTE Hybrid Connector Cleaning Instructionst
- (1) CottoN TipS 100 Swabs CT100



100 Pack 4x4 Lint-Free Precision Wipes



CottoN TipS - 100 Swabs CT100



Electro Wash PX Non-Residue Fiber Optic Cleaner



IBC One-Click Cleaning Tool with 2.0mm Tip



LEMO SMPTE Hybrid Alignment Tool