

QUALITY CABLE ASSEMBLIES



LEMO Cable Assembly



LEMO UK has fully equipped cable assembly facilities with trained technicians experienced in the termination of LEMO electrical and fibre optic connectors, providing assemblies of the highest quality and performance.

Whilst the emphasis is naturally on the termination of LEMO connectors, a high quality termination service for other manufacturers' connectors is also offered, and we have the capability for termination of both copper and fibre optic connectors.

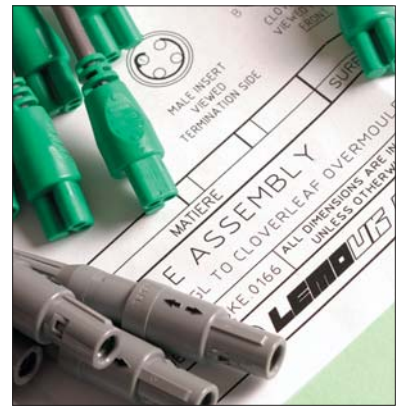
Fibre optic connections require careful selection and fixing of ferrules on the fibre, followed by accurate polishing of the ferrule end-face in order to achieve optimum performance. Equally electrical terminations can fail through poor or inexperienced termination whether with solder or crimp contacts, especially with high density contact configurations and use of lead-free solders.

As well as the manual skills required to terminate a cable assembly, the achievement of quality requires the necessary equipment for both termination and testing. LEMO UK's cable assembly workshop is equipped with the latest cable preparation, termination and test equipment, both manual and automatic.

Every cable assembly is fully inspected to ensure that it meets the requirements specified.

Each electrical cable assembly is fully tested for pin-pin continuity, as well as having a high voltage test to ensure that there are no potential breakdown problems.

All fibre optic terminations are subjected to insertion loss and back reflection tests to ensure the highest quality of signal transmission. Additionally the polishing process is constantly monitored to ensure that the required polished profiles are being maintained.



Drawings are prepared using our CAD facilities for customer approval, as part of our quality system, which is to the ISO 9001/2000 standard and provides customers with full traceability.



Quality connectors and cable assemblies

Markets, products and applications

The extensive LEMO range provides solutions for demanding applications in many markets:

- Aerospace
- Audio-video
- Automotive/motorsport
- Communications
- Datacomms
- Defence
- Industrial controls
- Marine
- Medical
- Nuclear
- Science and research
- Survey
- Test and measurement

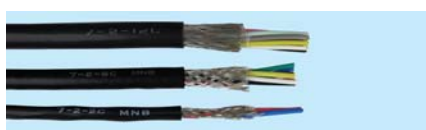


Typical examples of various cables and connectors

RG Coaxial cables used in data, voice and video applications with a LEMO 00 miniature 50 ohm connector.



Multicore screened and unscreened Def-Stan 61-12 cables used in military, process control and data applications with a LEMO B series push pull multipole connector.



UL standard cables with drain wire (Belden equivalent) used in instrumentation, data and audio applications with a LEMO F series push pull compact lightweight connector.



Furukawa hybrid camera cable with fibre optic, control and power wires for HD fibre links in the broadcast industry with a LEMO rugged 3K.93C connector. Part number UKT.0000543.



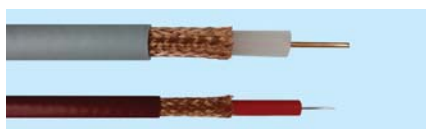
Mains cables. High flexible all weather H07 RN-F rubber insulated cables with high durability for most applications, with a Redel P series mains power plastic connector.



Instrumentation cables BS5308 used to carry voice and data services in process plants with a LEMO stainless steel nuclear N series connector.



Special high voltage cables with small outer diameters to match the range of LEMO HT connectors from 3kV to 30kV, particularly the LEMO Y Series and the 0S.403 and 1S.408 connectors.



Mil-Tac military rugged multi fibre cable ideal for external use in snow, desert and high humidity applications, with the LEMO K series IP68 multi fibre push pull connector.



Standard cable assemblies

In many instances the technical requirements for an assembly are the same for many different customers. For this reason a part numbering system for standard cable assemblies has been created, where the specification can be agreed using a text description based on standard cable types with standard pin-outs

(e.g. DEF-STAN61-12). Standard assemblies are provided with black strain relief and crimp contacts are used wherever feasible. Variants can be accommodated, though the part numbering will be different and will be generated at the time of an order.



Part numbers are generated as follows:

Type	Size/series	Contact configuration	Primary connector model	Second connector model	Length in metres Decimals of a metre preceded by -
UKS					

Examples:

Part Number	Description
UKS.00250FFAPCA010	FFA.00.250 terminated to PCA.00.250 on a 10m length of RG174 with black sleeves
UKS.00250FFSFFS-25	FFS.00.250 on both ends of a 0.25m length of RG174 with black sleeves
UKS.0B304FGGFGG250	FGG.0B.304 on both ends of a 250m length of 7-1-4C with black sleeves
UKS.3B314FGGPHG003	FGG.3B.314 terminated to PHG.3B.314 on a 3m length of 7-1-15C with black sleeves

Custom cable assemblies

Why not try our on-line quotation facility at www.lemo.co.uk/req_cable_quote.php. It is designed for a quick response to cable assembly enquiries. The quotation form is as shown below. Alternatively please contact our sales team who will be happy to help with any questions or queries, or copy this form and fax back to us on **01903 206 231**.

Cable assembly quotation form *(Please complete all fields in CAPITALS)*

Title _____

First Name _____ Surname _____

Job Title _____

Company _____

Address _____

City _____

County _____ Postcode _____

Phone number _____ Fax number _____

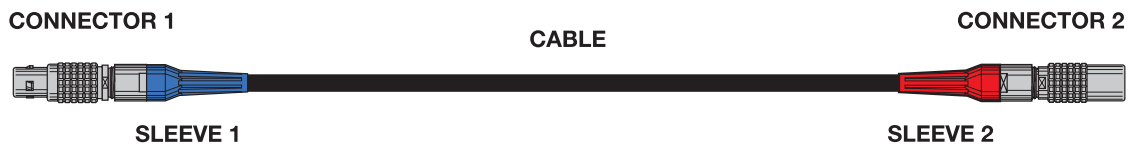
Email _____

Number of assemblies required

Number of contacts terminated per connector

Screen termination required Yes No

Estimation for each assembly



Part number, specification or description

Connector 1

Sleeve 1

Connector 2 (if required)

Sleeve 2 (if required)

Cable

Ident details

Cable length = tip to tip metre cm

Pin out specification MIL DIN Other

Additional Information eg. environment, special requirements etc.

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