LCG
Low Current Grease

LCG has been developed to offer enhanced electrical performance for low current switches as well as offering desirable mechanical properties. LCG is suitable for use on the more cost effective, sensitive plastics and under the more arduous conditions required within the automotive industry.

- Very low contact resistance; ideal for low current switches
- Excellent plastics compatibility; suitable with sensitive plastics (ABS/PC), testing is always advised
- Enhances quality of switch; excellent mechanical properties providing smooth operation
- Provides optimal mechanical resistance and reduces electrical background noise

Approvals	**RoHS Compliant (2015/863/EU):**	**Yes**

Typical Properties

Colour	Cream
Density (g/ml)	0.85
Temperature Range (°C)	-45 to +130
Evaporation Weight Loss (% 7 days @ 100°C)	0.2
Copper Strip Corrosion (IP154 / ISO 2160)	≤1b
Drop Point (IP32 / ISO 2176 (°C))	200
Cone Penetration Worked (ASTM D217, 60 strokes @ 20°C)	320
Cone Penetration Un-worked (ASTM D 217 @ 20°C)	300
Cone Penetration Un-worked (ASTM D 217 @ -40°C)	230
Consistency (NLGI)	1
Fliessdruck (Flow Pressure) (DIN 51805, mbar @ -40°C)	300
Oil Bleed / Separation (IP121)	5%
Silver Corrosion (DIN 51759, 3hrs @100°C)	No Change
Plastic Compatibility - ABS	Test
Plastic Compatibility - PC	Test
Thickener	Lithium Complex Soap
UV Trace	Yes

Base Oil Properties

Base Oil Type	PAO / Complex Ester
Pour Point (ASTM D 97 (°C))	-54
Flash Point (COC ASTM D 92 (°C))	>200

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All information is given in good faith but without warranty. Properties are given as a guide only and should not be taken as a specification.

Electrolube cannot be held responsible for the performance of its products within any application determined by the customer, who must satisfy themselves as to the suitability of the product.

Ashby Park, Coalfield Way,
Ashby de la Zouch,
Leicestershire LE65 1JR
T +44 (0)1530 419 600
F +44 (0)1530 416 640
BS EN ISO 9001:2008
Certificate No. FM 32082

Packaging	Order Code	Shelf Life	Container Dimension
20kg Bulk	LCG20KG	72 Months	305mm (Diameter) x 406mm (Height)
35ml Syringe	LCG35SL	48 Months	

Directions for Use

Before final treatment with Electrolube lubricants, contact surfaces should be clean and dry. For general removal of dirt, Electrolube ULS is recommended. Hardened dirt and tarnish, especially on larger contacts, should be removed by rubbing with an abrasive material, which can be impregnated with the lubricant to be used.

After cleaning non-wiping contacts, loosened tarnish should be removed before a final application of lubricant is made. Electrolube Contact Cleaning Strips (CCS) are recommended for this purpose. With wiping contacts, loosened tarnish will be pushed aside. This can be removed if desired, but is usually not necessary, due to the excellent lubricating and protective properties of the contact lubricant.

LCG can be applied by one of the following methods (although this list is not exhaustive):

Manually by way of a syringe
Semi-automated using syringe dispensing equipment
Fully automated by way of a follower/pusher plate with dispensing system.

Typical Product Applications

The main applications for LCG include low current column switches, rocker switches and push-push switches.

LCG has been specifically designed as a lubricant to ensure the low and stable electrical contact resistance across mating metal surfaces, by reducing harmful arcing and increasing the effective surface area of the switch. However, due the outstanding nature of its mechanical and plastic compatibility properties, it may also be used as a purely mechanical lubricant for plastic / plastic and plastic / metal interfaces.

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