FHLR2GCB2G Cable

Eland Product Group: CP1

APPLICATION

Shielded cable for automotive electric powertrain units.

CHARACTERISTICS

Voltage Rating
0.6/1kV

Test Voltage
spark test: 8kV
5 minutes: 5kV

Temperature Rating
Operating temperature: -40°C to +180°C (3000 hours)
Short term ageing: +205 °C (240 hours)

Minimum Bending Radius
Static installation: 3 x overall diameter
Dynamic Installation: 6 x overall diameter

CONSTRUCTION

Conductor
Class 6 fine flexible stranded Copper

Insulation
SiR (Silicon rubber)

Screening Armor
Tinned copper (85% minimum coverage)

Foiled Armor
ALU-PET foil (20% minimum overlap)

Outer sheath
SiR (Silicon rubber)

Sheath Colour
Orange

STANDARDS

LV 216-2 table A2, Daimler AG C51 / 11.14, VW N 107 776, BMW GS 95007-6-2

THE CABLE LAB®

AN ISO/IEC 17025 AND IECEE CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.

SUSTAINABILITY COMMITMENT

We are on a journey to Net Zero.

We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable operations at: www.elandcables.com/company/about-us/esg-sustainability

REGULATORY COMPLIANCE

This cable meets the requirements of the RoHS Directive 2015/65/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab®.

DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	CONDUCTOR DIAMETER mm	INSULATION THICKNESS mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT g/m
CP101025OR	1	25	7	0.64	12.2	345
CP101035OR	1	35	8.5	0.64	14.4	485
CP101050OR	1	50	10	0.71	15.8	630
CP101070OR	1	70	12.5	0.8	18.2	880
CP101095OR	1	95	14.8	0.9	20.9	1150

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm²	MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C mΩ/m	CAPACITANCE pF/m	INDUCTANCE nH/m	IMPEDANCE ohms	CURRENT RATING A			
					at 20°C	at 85°C	at 125°C	at 140°C
25	0.743	600	100	10	310	260	240	220
35	0.527	600	100	10	375	325	280	360
50	0.368	670	105	10	458	420	360	340
70	0.259	670	134	-	600	525	455	425
95	0.196	630	150	-	705	640	560	510

Conductor Operating Temperature: 225°C

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