

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

UKAS LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab[®], a UKAS accredited ISO 17025 cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.



8578



FS 672069



EMS 672067



OHS 672066

REGULATORY COMPLIANCE

This cable meets the requirements of the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab[®] as meeting the requirements of the BSI RoHS Trusted Kitemark[™].



KM 636267





DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	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 mm ²	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