

**CASUSTAN™ EV**  
**FHLR2GCB2G**  
**-40°C to +180°C**



**Construction**

**Type:** high voltage shielded and multicore cable  
**Core:** flexible or extra flexible bare copper  
**Insulation:** silicone rubber  
**Electrical screen:** aluminum/PET tape  
**Shielding:** tin-plated copper braid  
**Sheath:** silicone rubber

**Production**

**Range width:** 1.5 / 2.5 / 4 / 6 / 10 / 16 / 25 / 35 / 50 / 70 / 95 / 120 mm<sup>2</sup>  
**Color:** Orange RAL2003  
**Options:** Please consult us for any special requirements

**Application**

**Automotive:** high voltage multicore cables for e-mobility power applications. Several benefits: high flexibility, high-temperature resistance, halogen-free, flame retardant, and dual shielding. The best product for your electrical power train of hybrid and electrical vehicles.

**General characteristics**

**Operating environment:** good resistance to thermal shock  
**Weather conditions:** good resistance to UV  
**Chemical behaviors:** good resistance to aggressive chemical environments  
**Humidity:** excellent resistance to humidity  
**Mechanical behaviors:** excellent flexibility

**Thermal characteristics**

**Continuous operating temperature:** -40°C to +180°C

**Electrical characteristics**

**Operating Voltage:** 600 VAC / 900 VDC , 1000 VAC / 1500 VDC  
**Test voltage:** 5000V

**Approvals – Standards**

**Automotive:** ISO 6722-1, LV 216-2  
**Halogen free:** IEC 60754-2 / EN 60754-2

Casmoc Part No.	Conductor cross-section area	Conductor structure			Conductor Diameter		Insulation Diameter		Final O.D.		Linear core resistance at 20°C	Approx. Weight
	mm <sup>2</sup>	# Strands	Diam. Of Strands		(in)	(mm)	(in)	(mm)	(in)	(mm)	(Ω/ km)	kg/km
			(in)	(mm)								
8100901	1.5	76	0.006	0.16	0.07	1.7	0.09	2.4	0.16	4	12.7	35
8100902	2.5	140	0.006	0.16	0.09	2.2	0.12	3	0.19	4.7	7.6	50
8100903	4	224	0.006	0.16	0.11	2.8	0.15	3.7	0.23	5.8	4.71	75
8100904	6	320	0.006	0.16	0.13	3.4	0.17	4.3	0.26	6.5	3.14	100
8100905	10	320	0.008	0.21	0.18	4.5	0.24	6	0.35	8.8	1.82	160
8100906	16	512	0.008	0.21	0.23	5.8	0.28	7.2	0.40	10.2	1.16	230
8100907	25	790	0.008	0.21	0.28	7.2	0.35	8.8	0.48	12.2	0.743	350
8100908	35	1070	0.008	0.21	0.33	8.5	0.41	10.5	0.57	14.4	0.527	475
8100909	50	1600	0.008	0.21	0.41	10.5	0.48	12.2	0.62	15.8	0.368	650
8100910	70	1427	0.010	0.26	0.49	12.5	0.61	15.5	0.79	20	0.259	920
8100911	95	1936	0.010	0.26	0.58	14.8	0.71	18	0.89	22.5	0.196	1175
8100912	120	2450	0.010	0.26	0.65	16.5	0.78	19.7	0.93	23.5	0.153	1440

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**CAUTION**

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