casmocable
CABLES FOR EXTREMES

FHLR2GCB2G

-40°C to +180°C, 1000/1500V



Construction
Conductor: Flexible Bare Copper
Insulation: Extruded · Silicone Rubber (SiR)
Shield: Foil Braid · Tinned copper braid and aluminum-laminated foil tape
Jacket: Extruded · Silicone Rubber (SiR)

Thermal Characteristics
Operating Temperature: -40°C to +180°C

Electrical Characteristics
Operating Voltage: 1000/1500V

Application
EV High-Voltage Powertrain: Dual-screened silicone high-voltage battery and inverter cable for electric and hybrid vehicles.

General Characteristics
Dual EMC Shielding: Combined aluminum foil and tinned copper braid suppress high-frequency powertrain interference.
Flexible Routing: Fine-stranded conductor and silicone layers bend easily through tight traction harnesses.

Standards & Approvals
ISO 19642-9: Screened and sheathed high-voltage automotive cables.
ISO 19642-2: Test methods for automotive cables.

RoHS COMPLIANT REACH COMPLIANT

FHLR2GCB2G-B

CASMO Part No.	Conductor				Min. Ins. Thickness (mm)	Min. Braid Coverage (%)	Cable			Max. DCR @20°C (Ω/km)	Nom. Cable Weight (kg/km)
	Conductor Size (mm^2)	No. Of Strands	Max. Strand Dia. (mm)	Max. Conductor Dia. (mm)			Min. Jkt. Thickness (mm)	Min. Overall O.D. (mm)	Max. Overall O.D. (mm)		
810091.5/30-XX	1.5	30	0.26	1.70	0.24	85	0.32	3.50	3.90	12.7	30
810092/19-XX	2	19	0.38	2.00	0.28	85	0.32	3.70	4.10	9.42	37
810092.5/50-XX	2.5	50	0.26	2.20	0.28	85	0.32	3.90	4.30	7.6	42
810093/44-XX	3	44	0.31	2.40	0.32	85	0.32	4.20	4.80	6.15	51

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FHLR2GCB2G-B

CASMO Part No.	Conductor				Min. Ins. Thickness (mm)	Min. Braid Coverage (%)	Cable			Max. DCR @20°C (Ω/km)	Nom. Cable Weight (kg/km)
	Conductor Size (mm²)	No. Of Strands	Max. Strand Dia. (mm)	Max. Conductor Dia. (mm)			Min. Jkt. Thickness (mm)	Min. Overall O.D. (mm)	Max. Overall O.D. (mm)		
810094/56-XX	4	56	0.31	2.80	0.32	85	0.32	4.50	5.10	4.71	61
810095/65-XX	5	65	0.33	3.10	0.32	85	0.48	5.40	6.00	3.94	78
810095/70-XX	5	70	0.31	3.10	0.32	85	0.48	5.40	6.00	3.94	78
810096/84-XX	6	84	0.31	3.40	0.32	85	0.48	5.50	6.10	3.14	88
810098/116-XX	8	116	0.31	4.30	0.32	85	0.52	6.50	7.10	2.38	116
8100912/168-XX	12	168	0.31	5.40	0.48	85	0.52	8.00	8.60	1.52	170
8100920/276-XX	20	276	0.31	6.90	0.52	85	0.64	9.60	10.20	0.955	252
8100925/360-XX	25	360	0.31	7.80	0.52	85	0.72	10.70	11.30	0.743	313
8100935/504-XX	35	504	0.31	9.00	0.64	85	0.80	12.60	13.20	0.527	435
8100950/722-XX	50	722	0.31	10.50	0.71	85	0.88	14.60	15.20	0.368	598
8100970/1040-XX	70	1040	0.31	12.50	0.80	85	0.88	16.60	17.40	0.259	826
8100985/1197-XX	85	1197	0.31	13.60	0.90	85	0.88	18.20	19.00	0.219	981
81009240/3404-XX	240	3404	0.31	23.00	1.70	85	1.60	31.50	33.50	0.0801	2907

Table Notes

† Part No. code: XX = colour code — OR Orange (standard high-voltage colour), BK Black, RD Red, BL Blue, YW Yellow, GN Green, WH White, BN Brown, VT Violet, GY Grey.

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CABLES FOR EXTREMES

FHLR2GCB2G

-40°C to +180°C, 1000/1500V



FHLR2GCB2G-C

CASMO Part No.	Conductor				Min. Ins. Thickness (mm)	Min. Braid Coverage (%)	Cable			Max. DCR @20°C (Ω/km)	Nom. Cable Weight (kg/km)
	Conductor Size (mm²)	No. Of Strands	Max. Strand Dia. (mm)	Max. Conductor Dia. (mm)			Min. Jkt. Thickness (mm)	Min. Overall O.D. (mm)	Max. Overall O.D. (mm)		
810093/160-XX	3	160	0.16	2.40	0.32	85	0.32	4.20	4.80	6.15	51
810095/250-XX	5	250	0.16	3.10	0.32	85	0.48	5.40	6.00	3.94	78
810098/240-XX	8	240	0.21	4.30	0.32	85	0.52	6.50	7.10	2.38	116
8100910/320-XX	10	320	0.21	4.50	0.48	85	0.52	7.50	8.10	1.82	149
8100912/384-XX	12	384	0.21	5.40	0.48	85	0.52	8.00	8.60	1.52	170
8100916/512-XX	16	512	0.21	6.30	0.52	85	0.64	9.00	9.60	1.16	215
8100920/608-XX	20	608	0.21	6.90	0.52	85	0.64	9.60	10.20	0.955	252
8100925/790-XX	25	790	0.21	7.80	0.52	85	0.72	10.70	11.30	0.743	313
8100930/912-XX	30	912	0.21	8.30	0.64	85	0.72	11.60	12.20	0.647	362
8100935/1102-XX	35	1102	0.21	9.00	0.64	85	0.80	12.60	13.20	0.527	435
8100940/1235-XX	40	1235	0.21	9.60	0.71	85	0.80	13.30	13.90	0.473	478
8100950/1600-XX	50	1600	0.21	10.50	0.71	85	0.88	14.60	15.20	0.368	598
8100960/1786-XX	60	1786	0.21	11.60	0.80	85	0.88	15.50	16.30	0.315	697
8100970/2147-XX	70	2147	0.21	12.50	0.80	85	0.88	16.60	17.40	0.259	826
8100985/2736-XX	85	2736	0.21	13.60	0.90	85	0.88	18.20	19.00	0.219	981
8100995/3000-XX	95	3000	0.21	14.80	0.90	85	0.88	19.10	19.90	0.196	1090

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FHLR2GCB2G-C

CASMO Part No.	Conductor				Min. Ins. Thickness (mm)	Min. Braid Coverage (%)	Cable			Max. DCR @20°C (Ω/km)	Nom. Cable Weight (kg/km)
	Conductor Size (mm²)	No. Of Strands	Max. Strand Dia. (mm)	Max. Conductor Dia. (mm)			Min. Jkt. Thickness (mm)	Min. Overall O.D. (mm)	Max. Overall O.D. (mm)		
81009120/3648-XX	120	3648	0.21	16.50	1.28	85	1.16	22.20	23.80	0.153	1432
81009150/4810-XX	150	4810	0.21	18.50	1.70	85	1.60	27.00	29.00	0.129	1972
81009180/5920-XX	180	5920	0.21	20.30	1.70	85	1.60	28.50	30.50	0.106	2322

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