FHLR2GC2G

-40°C to +180°C, 1000/1500V



Construction
Conductor: Flexible Bare Copper
Insulation: Extruded · Silicone Rubber (SiR)
Shield: Braid · Tinned copper wire braid
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: Braid-screened silicone high-voltage battery and traction cable for electric and hybrid vehicles.

General Characteristics
Braided EMC Shielding: High-coverage tinned copper braid provides low transfer impedance and mechanical flex life.
Flexible Routing: Supple silicone core and sheath allow effortless installation in tight HV routing paths.

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

RoHS COMPLIANT REACH COMPLIANT

FHLR2GC2G-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)		
810172.5/50-XX	2.5	50	0.26	2.20	0.28	85	0.38	4.20	4.70	7.6	43
810174/56-XX	4	56	0.31	2.80	0.32	85	0.38	5.30	5.80	4.71	69
810176/84-XX	6	84	0.31	3.40	0.32	85	0.46	6.00	6.50	3.14	91

Please confirm application-specific requirements with CASMO before ordering. Specifications are subject to change; please ensure you are using the latest revision.

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casmocable
CABLES FOR EXTREMES

FHLR2GC2G

-40°C to +180°C, 1000/1500V



FHLR2GC2G-B

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.

FHLR2GC2G-C

CASMO Part No.	Conductor				Min. Ins. Thickness (mm)	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)		
8101710/320-XX	10	320	0.21	4.50	0.48	0.70	8.20	8.80	1.82	158
8101712/384-XX	12	384	0.21	5.40	0.48	0.70	8.90	9.50	1.52	185
8101716/512-XX	16	512	0.21	5.80	0.52	0.70	9.60	10.20	1.16	226
8101725/790-XX	25	790	0.21	7.20	0.64	0.75	11.60	12.20	0.743	339
8101730/912-XX	30	912	0.21	8.30	0.64	0.75	12.80	13.40	0.647	396
8101735/1102-XX	35	1102	0.21	8.50	0.64	0.80	13.80	14.40	0.527	474
8101740/1235-XX	40	1235	0.21	9.60	0.71	0.80	14.40	15.00	0.473	514
8101750/1600-XX	50	1600	0.21	10.50	0.71	0.80	15.20	15.80	0.368	620
8101770/2147-XX	70	2147	0.21	12.50	0.80	0.90	17.40	18.20	0.259	850
8101795/3000-XX	95	3000	0.21	14.80	0.90	0.92	20.10	20.90	0.196	1130
81017120/3648-XX	120	3648	0.21	16.50	1.28	1.16	22.20	23.00	0.153	1429

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FHLR2GC2G-C

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