FHLR2GCB2G MC

-40°C to +180°C, 1000/1500V



Construction
Conductor: Flexible Bare Copper
Core Insulation: Extruded · Silicone Rubber (SiR)
Cabling: Laid Up
Core Identification: Color-coded cores
Core Arrangement: Silicone-insulated cores twisted together under overall dual shield and outer silicone sheath.
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 high-voltage multi-core silicone cable for electric vehicle inverters, chargers and e-axles.

General Characteristics
Dual EMC Shielding: Overall aluminum foil and tinned copper braid shield multi-phase inverter and charger lines.
Flexible Multi-Core Routing: Twisted silicone-insulated cores and supple outer jacket route smoothly in tight powertrain bays.

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

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)			Min. Jkt. Thickness (mm)	Min. Overall O.D. (mm)	Max. Overall O.D. (mm)		
812012X1.5/30-XX	2x1.5	30	0.26	0.22	85	0.76	7.90	8.50	12.7	110
812012X2/40-XX	2x2	40	0.26	0.24	85	0.76	9.10	9.70	9.42	135
812012X2.5/50-XX	2x2.5	50	0.26	0.24	85	0.76	9.30	9.90	7.6	147

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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CABLES FOR EXTREMES

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	Conductor Size (mm^2)	No. Of Strands	Max. Strand Dia. (mm)			Min. Jkt. Thickness (mm)	Min. Overall O.D. (mm)	Max. Overall O.D. (mm)		
812013X2.5/50-XX	3x2.5	50	0.26	0.24	85	0.76	9.80	10.40	7.6	177
812014X2.5/50-XX	4x2.5	50	0.26	0.24	85	0.82	10.60	11.20	7.6	211
812015X2.5/50-XX	5x2.5	50	0.26	0.24	85	0.86	11.70	12.30	7.6	255
812012X4/56-XX	2x4	56	0.31	0.28	85	0.76	10.70	11.30	4.71	203
812013X4/56-XX	3x4	56	0.31	0.28	85	0.76	11.50	12.10	4.71	247
812014X4/56-XX	4x4	56	0.31	0.28	85	0.82	12.70	13.30	4.71	318
812015X4/56-XX	5x4	56	0.31	0.28	85	0.90	13.90	14.50	4.71	379
812012X6/84-XX	2x6	84	0.31	0.32	85	0.82	12.20	12.80	3.14	270
812013X6/84-XX	3x6	84	0.31	0.32	85	0.90	13.50	14.10	3.14	356
812014X6/84-XX	4x6	84	0.31	0.32	85	0.90	14.50	15.10	3.14	430
812015X6/84-XX	5x6	84	0.31	0.32	85	0.90	15.70	16.30	3.14	508

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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