casmocable
CABLES FOR EXTREMES

FHLR2G2G 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 and enclosed in an extruded silicone outer sheath.
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: Unscreened sheathed high-voltage multi-core silicone cable for electric and hybrid vehicle powertrains.

General Characteristics
Flexible Multi-Core Routing: Twisted silicone-insulated cores and supple outer sheath bend easily in compact HV harnesses.
Thermal Endurance: Maintains dielectric integrity and elasticity under continuous high-temperature powertrain service.

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

RoHS COMPLIANT REACH COMPLIANT

CASMO Part No.	Conductor			Min. Ins. Thickness (mm)	Cable			Max. DCR @20°C (Ω/km)	Nom. Cable Weight (kg/km)
	Conductor Size (mm²)	No. Of Strands	Max. Strand Dia. (mm)		Min. Jkt. Thickness (mm)	Min. Overall O.D. (mm)	Max. Overall O.D. (mm)		
812052X2.5/50-XX	2x2.5	50	0.26	0.24	0.62	7.40	8.00	7.6	91
812053X2.5/50-XX	3x2.5	50	0.26	0.24	0.65	7.90	8.50	7.6	128
812054X2.5/50-XX	4x2.5	50	0.26	0.24	0.68	8.90	9.50	7.6	166
812055X2.5/50-XX	5x2.5	50	0.26	0.24	0.72	9.90	10.50	7.6	191
812052X4/56-XX	2x4	56	0.31	0.28	0.72	9.10	9.70	4.71	140
812053X4/56-XX	3x4	56	0.31	0.28	0.75	9.70	10.30	4.71	190
812054X4/56-XX	4x4	56	0.31	0.28	0.78	10.70	11.30	4.71	245
812055X4/56-XX	5x4	56	0.31	0.28	0.82	11.90	12.50	4.71	288
812052X6/84-XX	2x6	84	0.31	0.28	0.76	10.40	11.00	3.14	195
812053X6/84-XX	3x6	84	0.31	0.28	0.80	11.20	11.80	3.14	265
812054X6/84-XX	4x6	84	0.31	0.28	0.83	12.40	13.00	3.14	345
812055X6/84-XX	5x6	84	0.31	0.28	0.86	13.70	14.30	3.14	405

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.

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

© CASMO CABLE LLC. All rights reserved.