

CASUSTAN™ EV MC
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 mm², with 2 / 3 / 4 / 5 conductors (other cross sections or constructions on request)
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
Halogen free: IEC 60754-2 / EN 60754-2

Casmo Part No.	Conductor cross-section area		Conductor Diameter				Outer Sheath Diameter				Linear core resistance at 20°C	Weight Approx
	NO.	(mm ²)	(in)		(mm)		(in)		(mm)		(Ω/ km)	(kg/km)
8120101	2 x	1.5	0.09	-0.01	2.4	-0.3	0.33	-0.02	8.5	-0.6	13	120
8120102	3 x	1.5	0.09	-0.01	2.4	-0.3	0.36	-0.02	9.1	-0.6	13	140
8120103	4 x	1.5	0.09	-0.01	2.4	-0.3	0.38	-0.02	9.7	-0.6	13	165
8120104	5 x	1.5	0.09	-0.01	2.4	-0.3	0.41	-0.02	10.3	-0.6	13	186
8120105	2 x	2.5	0.12	-0.01	3.0	-0.3	0.39	-0.02	9.9	-0.6	7.8	160
8120106	3 x	2.5	0.12	-0.01	3.0	-0.3	0.41	-0.02	10.4	-0.6	7.8	186
8120107	4 x	2.5	0.12	-0.01	3.0	-0.3	0.44	-0.02	11.1	-0.6	7.8	223
8120108	5 x	2.5	0.12	-0.01	3.0	-0.3	0.48	-0.02	12.1	-0.6	7.8	271
8120109	2 x	4.0	0.15	-0.01	3.7	-0.3	0.44	-0.02	11.3	-0.6	4.8	220
8120110	3 x	4.0	0.15	-0.01	3.7	-0.3	0.48	-0.02	12.1	-0.6	4.8	268
8120111	4 x	4.0	0.15	-0.01	3.7	-0.3	0.52	-0.02	13.3	-0.6	4.8	330
8120112	5 x	4.0	0.15	-0.01	3.7	-0.3	0.57	-0.02	14.5	-0.6	4.8	410
8120113	2 x	6.0	0.17	-0.01	4.3	-0.3	0.50	-0.02	12.8	-0.6	3.2	290
8120114	3 x	6.0	0.17	-0.01	4.3	-0.3	0.56	-0.02	14.1	-0.6	3.2	390
8120115	4 x	6.0	0.17	-0.01	4.3	-0.3	0.59	-0.02	15.1	-0.6	3.2	453
8120116	5 x	6.0	0.17	-0.01	4.3	-0.3	0.64	-0.02	16.3	-0.6	3.2	540

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