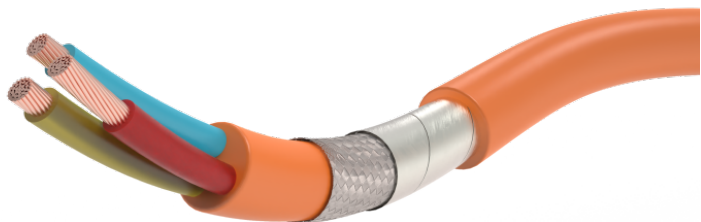


CASUSTAN™ EV

FHLR2GCB2G MC

-40°C to +180°C



Construction

Type: high voltage shielded multicore cable

Core: flexible or extra flexible bare copper (E-Cu ETP1 according DIN EN 13602)

Insulation: mod. silicone rubber

Inner sheath: mod. silicone rubber

Shielding: tin-plated copper braid

Electrical screen: aluminum/PET tape

Sheath: mod. 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

Operating temperature: -40°C to +180°C (3000h)

Short term ageing: up to +205°C (240h)

Mechanical characteristics

Bend radius: min. 3 x cable-Ø (static)
min. 6 x cable-Ø (dynamic)

Electrical characteristics

Nominal voltage: 0.6/1.0 kV

Test voltage: eff. 8.0 kVolt (spark test)
eff. 5.0 kVolt (5 minutes)

Approvals – Standards

Automotive: LV 216-2 table A.5
Daimler AG C52/ 6.142
VW N 107 786

Halogen free: IEC 60754-2 / EN 60754-2

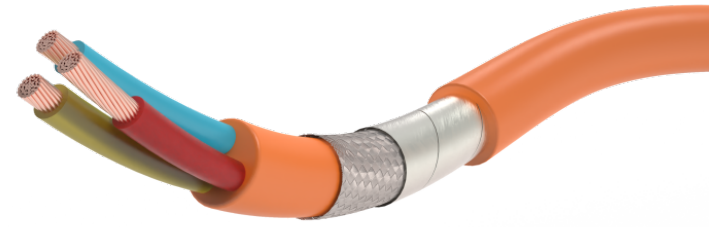
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CASUSTAN™ EV
FHLR2GCB2G MC
-40°C to +180°C



Casmco PN	Conductor							Core				Screen		Cable					
	Cross-section	Conductor structure			Max. Conductor Diameter		Resistance (20°C)	Min. Ins. Wall Thickness		Diameter		Max. Diameter		Min. Coverage	Min. Jkt. Wall Thickness		Final O.D. □		Approx. Weight
		N x Max. Diam. of Strands			(in)	(mm)	(Ω/ km)	(in)	(mm)	(in)	(mm)	(in)	(mm)	(%)	(in)	(mm)	(in)	(mm)	(kg/km)
		N x mm²	#	(in)	(mm)														
812012X1-5/30	2x1.50	30	0.010	0.26	0.067	1.7	13.2	0.009	0.22	0.09	2.2 - 2.4	0.006	0.16	85	0.030	0.76	0.31	7.9 - 8.5	110
812012X2/40	2x2.00	40	0.010	0.26	0.079	2	9.7	0.009	0.24	0.10	2.5 - 2.8	0.006	0.16		0.030	0.76	0.36	9.1 - 9.7	135
812012X2-5/50	2x2.50	50	0.010	0.26	0.087	2.2	7.8	0.009	0.24	0.11	2.7 - 3.0	0.006	0.16		0.030	0.76	0.37	9.3 - 9.9	147
812013X2-5/50	3x2.50	50	0.010	0.26	0.087	2.2	6.8	0.009	0.24	0.11	2.7 - 3.0	0.006	0.16		0.030	0.76	0.39	9.8 - 10.4	177
812012X4/56	2x4.00	56	0.012	0.31	0.108	2.75	4.8	0.011	0.28	0.13	3.4 - 3.7	0.006	0.16		0.030	0.76	0.42	10.7 - 11.3	203
812013X4/56	3x4.00	56	0.012	0.31	0.110	2.8	4.8	0.011	0.28	0.13	3.4 - 3.7	0.006	0.16		0.030	0.76	0.45	11.5 - 12.1	247
812014X4/56	4x4.00	56	0.012	0.31	0.110	2.8	4.8	0.011	0.28	0.13	3.4 - 3.7	0.008	0.21		0.032	0.82	0.50	12.7 - 13.3	318
812015X4/56	5x4.00	56	0.012	0.31	0.110	2.8	4.8	0.011	0.28	0.16	4.1 - 3.7	0.008	0.21		0.035	0.9	0.55	13.9 - 14.5	379
812012X6/84	2x6.00	84	0.012	0.31	0.134	3.4	3.14	0.013	0.32	0.16	4.1 - 4.3	0.006	0.16		0.032	0.82	0.48	12.2 - 12.8	270
812013X6/84	3x6.00	84	0.012	0.31	0.134	3.4	3.14	0.013	0.32	0.16	4.1 - 4.3	0.008	0.21		0.035	0.9	0.53	13.5 - 14.1	356
812014X6/84	4x6.00	84	0.012	0.31	0.134	3.4	3.14	0.013	0.32	0.16	4.1 - 4.3	0.008	0.21		0.035	0.9	0.57	14.5 - 15.1	430
812015X6/84	5x6.00	84	0.012	0.31	0.134	3.4	3.14	0.013	0.32	0.16	4.1 - 4.3	0.008	0.21		0.035	0.9	0.62	15.7 - 16.3	508

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