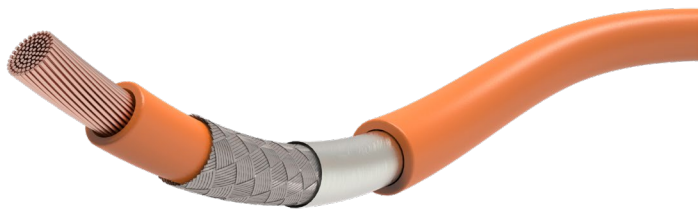


CASUSTAN™ EV

FHLR2GCB2G

-40°C to +180°C



Construction

Type: high voltage shielded cable

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

Insulation: mod. silicone rubber

Shielding: tin-plated copper braid

Electrical screen: aluminum/PET tape

Sheath: mod. silicone rubber

Production

Range width: 1.5-300mm²

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 kV (spark test)
eff. 5.0 kV (5 minutes)

Approvals – Standards

Automotive: ISO 6722-1, LV 216-2
Daimler AG C51 / 11.14
VW N 107 776
BMW GS 95007-6-2

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

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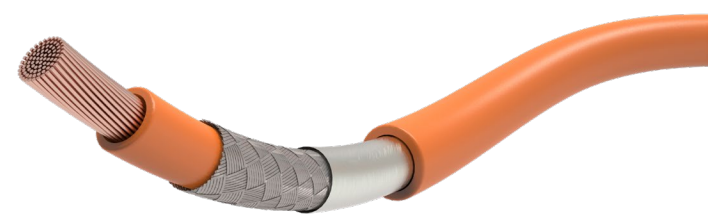
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CASUSTAN™ EV
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Casmco PN	Conductor							Core				Screen		Cable					
	Cross-section mm²	Conductor structure			Max. Conductor Diameter		Resistance (20°C)	Min. Ins. Wall Thickness		Diameter		Max. Diameter		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)
		#	(in)	(mm)															
810091-5	1.5	30	0.010	0.26	0.067	1.7	12.7	0.009	0.24	0.09	2.4 - 0.2	0.004	0.11	85	0.015	0.38	0.16	4.0 - 0.5	30
810092-5	2.5	50	0.010	0.26	0.087	2.2	7.6	0.011	0.28	0.12	3.0 - 0.3	0.004	0.11		0.015	0.38	0.19	4.7 - 0.5	44
810094	4	56	0.012	0.31	0.110	2.8	4.71	0.013	0.32	0.15	3.7 - 0.3	0.006	0.16		0.015	0.38	0.23	5.8 - 0.5	70
810096	6	84	0.012	0.31	0.134	3.4	3.14	0.013	0.32	0.17	4.3 - 0.3	0.006	0.16		0.018	0.46	0.26	6.5 - 0.5	95
8100910	10	320	0.008	0.21	0.177	4.5	1.82	0.019	0.48	0.24	6.0 - 0.6	0.006	0.16		0.028	0.7	0.35	8.8 - 0.6	159
8100912	12	384	0.008	0.21	0.213	5.4	1.52	0.019	0.48	0.26	6.5 - 0.6	0.006	0.16		0.028	0.7	0.37	9.5 - 0.6	186
8100916	16	512	0.008	0.21	0.228	5.8	1.16	0.020	0.52	0.28	7.2 - 0.6	0.006	0.16		0.028	0.7	0.40	10.2 - 0.6	227
8100925	25	790	0.008	0.21	0.283	7.2	0.743	0.025	0.64	0.35	8.8 - 0.6	0.008	0.21		0.030	0.75	0.48	12.2 - 0.6	340
8100930	30	912	0.008	0.21	0.327	8.3	0.647	0.025	0.64	0.38	9.6 - 0.7	0.008	0.21		0.030	0.75	0.53	13.4 - 0.6	398
8100935	35	1102	0.008	0.21	0.335	8.5	0.527	0.025	0.64	0.41	10.5 - 0.7	0.008	0.21		0.031	0.8	0.57	14.4 - 0.6	476
8100940	40	1235	0.008	0.21	0.378	9.6	0.473	0.028	0.71	0.44	11.1 - 0.7	0.008	0.21		0.031	0.8	0.59	15.0 - 0.6	515
8100950	50	1600	0.008	0.21	0.413	10.5	0.368	0.028	0.71	0.48	12.2 - 0.7	0.008	0.21		0.031	0.8	0.62	15.8 - 0.6	622
8100970	70	2147	0.008	0.21	0.492	12.5	0.259	0.031	0.8	0.57	14.4 - 1.4	0.008	0.21		0.035	0.9	0.72	18.2 - 0.8	852
8100995	95	3000	0.008	0.21	0.583	14.8	0.196	0.035	0.9	0.68	17.2 - 1.4	0.010	0.26		0.036	0.92	0.82	20.9 - 0.8	1133
81009120	120	3648	0.008	0.21	0.650	16.5	0.153	0.050	1.28	0.75	19.0 - 1.4	0.010	0.26		0.046	1.16	0.91	23.0 - 0.8	1432
81009150	150	4810	0.008	0.21	0.728	18.5	0.129	0.067	1.7	0.89	22.5 ± 1.0	0.008	0.21		0.063	1.6	1.10	28.0 ± 1.0	1972
81009180	180	5920	0.008	0.21	0.799	20.3	0.106	0.067	1.7	0.96	24.3 ± 1.0	0.008	0.21		0.063	1.6	1.16	29.5 ± 1.0	2322
81009240	240	3404	0.012	0.31	0.906	23	0.0801	0.067	1.7	1.06	27.0 ± 1.0	0.008	0.21		0.063	1.6	1.28	32.5 ± 1.0	2907

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