

CASUSTAN™ EV

FHL2G

-40°C to +180°C



Construction

Type: high voltage unshielded cable

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

Insulation: mod. silicone rubber

Production

Range width: 0.5-300mm²

Color: Orange RAL2003

Core surface: free of talc powder

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. 2 x cable-Ø (static)
min. 4 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: LV 216-1 Tabelle A.1

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

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Casmco PN	Type	Conductor							Cable					
		Cross-section	Conductor structure			Max. Conductor Diameter		Max. Resistance	Min. Ins. Wall Thickness		Diameter		Weight	
			mm²	N x Max. Diam. of										
#	(in)	(mm)												
81012A0-5/7	A	0.5	7	0.013	0.32	0.043	1.1	37.1	0.019	0.48	0.08	2.0 - 2.3	6	9
81012B0-5/16	B	0.5	16	0.008	0.21	0.043	1.1	37.1	0.019	0.48	0.08	2.0 - 2.3	6	9
81012A0-75/19	A	0.75	19	0.009	0.24	0.051	1.3	24.7	0.019	0.48	0.09	2.2 - 2.5	8	12
81012B0-75/24	B	0.75	24	0.008	0.21	0.051	1.3	24.7	0.019	0.48	0.09	2.2 - 2.5	8	12
81012A1/19	A	1	19	0.011	0.27	0.059	1.5	18.5	0.019	0.48	0.09	2.4 - 2.7	9	14
81012B1/32	B	1	32	0.008	0.21	0.059	1.5	18.5	0.019	0.48	0.09	2.4 - 2.7	9	14
81012A1-5/19	A	1.5	19	0.013	0.32	0.071	1.8	12.7	0.019	0.48	0.11	2.7 - 3.0	13	19
81012B1-5/30	B	1.5	30	0.010	0.26	0.071	1.8	12.7	0.019	0.48	0.11	2.7 - 3.0	13	19
81012B2/37	B	2	37	0.010	0.26	0.079	2.0	9.4	0.019	0.48	0.12	3.0 - 3.3	16	24
81012A2-5/19	A	2.5	19	0.016	0.41	0.087	2.2	7.6	0.022	0.56	0.13	3.3 - 3.6	20	30
81012B2-5/50	B	2.5	50	0.010	0.26	0.087	2.2	7.6	0.022	0.56	0.13	3.3 - 3.6	20	30
81012B3/44	B	3	44	0.012	0.31	0.094	2.4	6.15	0.022	0.56	0.15	3.8 - 4.1	26	38
81012C3/160	C	3	160	0.006	0.16	0.094	2.4	6.15	0.022	0.56	0.15	3.8 - 4.1	26	38
81012B4/56	B	4	56	0.012	0.31	0.110	2.8	4.7	0.025	0.64	0.16	4.0 - 4.4	31	46
81012C4/120	C	4	120	0.008	0.21	0.110	2.8	4.7	0.025	0.64	0.16	4.0 - 4.4	31	46
81012B5/70	B	5	70	0.012	0.31	0.122	3.1	3.94	0.025	0.64	0.18	4.5 - 4.9	38	56
81012C5/150	C	5	150	0.008	0.21	0.122	3.1	3.94	0.025	0.64	0.18	4.5 - 4.9	38	56
81012B6/84	B	6	84	0.012	0.31	0.134	3.4	3.1	0.025	0.64	0.18	4.6 - 5.0	44	66
81012C6/189	C	6	189	0.008	0.21	0.134	3.4	3.1	0.025	0.64	0.18	4.6 - 5.0	44	66
81012B8/62	B	8	62	0.016	0.41	0.169	4.3	2.38	0.025	0.64	0.20	5.0 - 5.9	56	84
81012C8/240	C	8	240	0.008	0.21	0.169	4.3	2.38	0.025	0.64	0.20	5.0 - 5.9	56	84
81012B10/80	B	10	80	0.016	0.41	0.177	4.5	1.82	0.031	0.8	0.23	5.9 - 6.5	73	108
81012C10/320	C	10	320	0.008	0.21	0.177	4.5	1.82	0.031	0.8	0.23	5.9 - 6.5	73	108
81012B12/96	B	12	96	0.016	0.41	0.213	5.4	1.52	0.031	0.8	0.26	6.6 - 7.4	89	132
81012C12/384	C	12	384	0.008	0.21	0.213	5.4	1.52	0.031	0.8	0.26	6.6 - 7.4	89	132
81012B16/126	B	16	126	0.016	0.41	0.228	5.8	1.16	0.031	0.8	0.30	7.7 - 8.3	117	174
81012C16/512	C	16	512	0.008	0.21	0.228	5.8	1.16	0.031	0.8	0.30	7.7 - 8.3	117	174
81012B20/156	B	20	156	0.016	0.41	0.272	6.9	0.955	0.035	0.88	0.32	8.1 - 9.1	138	206
81012C20/608	C	20	608	0.008	0.21	0.272	6.9	0.955	0.035	0.88	0.32	8.1 - 9.1	138	206
81012B25/196	B	25	196	0.016	0.41	0.283	7.2	0.743	0.041	1.04	0.37	9.4 - 10.0	177	263
81012C25/790	C	25	790	0.008	0.21	0.283	7.2	0.743	0.041	1.04	0.37	9.4 - 10.0	177	263
81012B30/228	B	30	228	0.016	0.41	0.327	8.3	0.647	0.041	1.04	0.38	9.7 - 10.9	200	298
81012C30/912	C	30	912	0.008	0.21	0.327	8.3	0.647	0.041	1.04	0.38	9.7 - 10.9	200	298

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			mm²	N x Max. Diam. of			(in)		(mm)	(Ω/km @ 20°C)	(in)	(mm)	(in)	(mm)
#	(in)	(mm)												
81012B35/276	B	35	276	0.016	0.41	0.335	8.5	0.527	0.041	1.04	0.41	10.3 - 11.0	239	356
81012C35/1102	C	35	1102	0.008	0.21	0.335	8.5	0.527	0.041	1.04	0.41	10.3 - 11.0	239	356
81012B40/320	B	40	320	0.016	0.41	0.378	9.6	0.473	0.044	1.12	0.44	11.2 - 12.4	271	404
81012C40/1235	C	40	1235	0.008	0.21	0.378	9.6	0.473	0.044	1.12	0.44	11.2 - 12.4	271	404
81012B50/396	B	50	396	0.016	0.41	0.413	10.5	0.368	0.047	1.2	0.49	12.4 - 13.2	343	510
81012C50/1600	C	50	1600	0.008	0.21	0.413	10.5	0.368	0.047	1.2	0.49	12.4 - 13.2	343	510
81012B60/296	B	60	296	0.020	0.51	0.457	11.6	0.315	0.047	1.2	0.53	13.4 - 14.6	400	596
81012C60/1786	C	60	1786	0.008	0.21	0.457	11.6	0.315	0.047	1.2	0.53	13.4 - 14.6	400	596
81012B70/360	B	70	360	0.020	0.51	0.492	12.5	0.259	0.047	1.2	0.56	14.3 - 15.1	470	700
81012C70/2147	C	70	2147	0.008	0.21	0.492	12.5	0.259	0.047	1.2	0.56	14.3 - 15.1	470	700
81012B85/1197	B	85	1197	0.012	0.31	0.535	13.6	0.219	0.050	1.28	0.58	14.8 - 16.8	556	827
81012C85/2736	C	85	2736	0.008	0.21	0.535	13.6	0.219	0.050	1.28	0.58	14.8 - 16.8	556	827
81012B95/475	B	95	475	0.020	0.51	0.583	14.8	0.196	0.050	1.28	0.65	16.4 - 17.4	627	933
81012C95/3000	C	95	3000	0.008	0.21	0.583	14.8	0.196	0.050	1.28	0.65	16.4 - 17.4	627	933
81012B120/608	B	120	608	0.020	0.51	0.650	16.5	0.153	0.050	1.28	0.73	18.5 - 19.5	814	1212
81012C120/3648	C	120	3648	0.008	0.21	0.065	1.65	0.153	0.050	1.28	0.73	18.5 - 19.5	814	1212
81012B150/760	B	150	760	0.020	0.51	0.728	18.5	0.129	0.067	1.7	0.83	21.0 - 23.0	1063	1582
81012C150/4810	C	150	4810	0.008	0.21	0.728	18.5	0.129	0.067	1.7	0.83	21.0 - 23.0	1063	1582
81012B180/925	B	180	925	0.020	0.51	0.799	20.3	0.106	0.067	1.7	0.91	23.0 - 25.0	1297	1930
81012C180/5920	C	180	5920	0.008	0.21	0.799	20.3	0.106	0.067	1.7	0.91	23.0 - 25.0	1297	1930
81012B240/1221	B	240	1221	0.020	0.51	0.906	23	0.0801	0.067	1.7	1.02	26.0 - 28.0	1662	2474
81012C240/9545	C	240	9546	0.008	0.21	0.906	23	0.0801	0.067	1.7	1.02	26.0 - 28.0	1662	2474
81012B300/1529	B	300	1529	0.020	0.51	1.024	26	0.0641	0.088	2.24	1.19	30.2 - 32.2	2104	3131