

CASUSTAN™ EV

EVP 180

-40°C to +180°C

Construction

Type: high voltage shielded automotive cable
Core: flexible or extra flexible bare, tin-plated, copper
Insulation: silicone rubber
Electrical screen: aluminum tape
Shielding: tin-plated copper braid
Sheath: silicone rubber

Production

Range width: 0.5 / 0.75 / 1.5 / 2 / 2.5 / 3 / 4 / 6 / 10 / 16 / 25 / 35 / 50 / 70 mm²
 other cross sections or constructions on request)
Options: Please consult us for any special requirements

Application

Automotive high voltage and high-temperature cables for e-mobility power applications

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, Class E according to ISO 6722-1

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

600 VAC / 900 VDC

Casmocable Part No.	Conductor cross-section area		Conductor structure			Conductor Diameter		Final O.D.		Linear core resistance at 20°C
	(AWG)	mm ²	# Strands	Diam. Of Strands		(in)	(mm)	(in)	(mm)	(Ω/ km)
				(in)	(mm)					
8100401	16	1.5	48	0.008	0.2	0.071	1.8	0.157	4	12.70
8100402	14	2.5	80	0.008	0.2	0.087	2.2	0.181	4.6	7.60
8100403	12	4	56	0.012	0.3	0.110	2.8	0.209	5.3	4.710
8100404	10	6	84	0.012	0.3	0.134	3.4	0.248	6.3	3.140
8100405	8	10	320	0.008	0.2	0.177	4.5	0.327	8.3	1.820
8100406	6	16	512	0.008	0.2	0.228	5.8	0.378	9.6	1.160
8100407	4	25	798	0.008	0.2	0.283	7.2	0.453	11.5	0.743
8100408	2	35	1120	0.008	0.2	0.335	8.5	0.535	13.6	0.527
8100409	1/0	50	1591	0.008	0.2	0.413	10.5	0.610	15.5	0.368
8100410	2/0	70	2229	0.008	0.2	0.492	12.5	0.709	18	0.259



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1000 VAC / 1500 VDC



Casmco Part No.	Conductor cross-section area		Conductor structure			Conductor Diameter		Final O.D.		Linear core resistance at 20°C
	(AWG)	mm²	# Strands	Diam. Of Strands		(in)	(mm)	(in)	(mm)	(Ω/ km)
				(in)	(mm)					
8100411	10	8	323	0.008	0.2	0.177	4.5	0.382	9.7	1.82
8100412	16	6	513	0.008	0.2	0.228	5.8	0.437	11.1	1.16
8100413	25	4	798	0.008	0.3	0.283	7.2	0.524	13.3	0.743
8100414	35	2	1121	0.008	0.3	0.335	8.5	0.579	14.7	0.527
8100415	50	1/0	1591	0.008	0.2	0.413	10.5	0.673	17.1	0.368
8100416	70	2/0	2229	0.008	0.2	0.492	12.5	0.748	19	0.258
8100417	95	4/0	3034	0.008	0.2	0.583	14.8	0.835	21.2	0.196
8100418	120	250MCM	3820	0.008	0.2	0.650	16.5	0.902	22.9	0.153
8100419	150	300MCM	4780	0.008	0.2	0.717	18.2	1.094	27.8	0.132



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