

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



COPYRIGHT

This document is protected under copyright law and is the property of Casmocable. Data contained herein is confidential to Casmocable and this document and/or any part of the data contained herein may not be copied, duplicated, or released for the manufacturing or sale of equipment outside of Casmocable or any affiliates without the prior written authorization of Casmocable

CAUTION

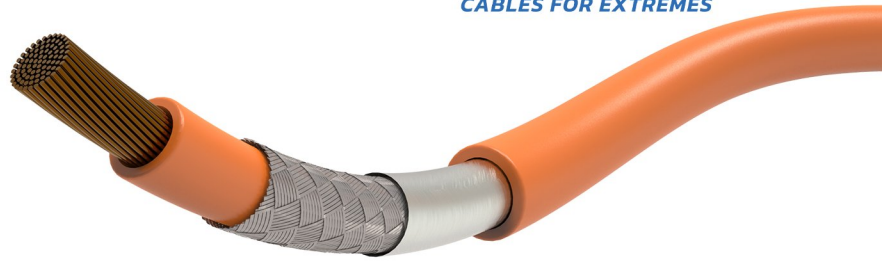
The information included in this catalog is intended as a guideline only. For applications that require tight tolerances, please contact Casmocable for dimensional verification. Information herein is believed to be accurate as of the publication date; however, if an error exists it is unintentional and Casmocable is not responsible for any claim traceable to such error.

CASUSTAN™ EV

EVP 180

-40°C to +180°C

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



COPYRIGHT

This document is protected under copyright law and is the property of Casmco Cable. Data contained herein is confidential to Casmco Cable and this document and/or any part of the data contained herein may not be copied, duplicated, or released for the manufacturing or sale of equipment outside of Casmco Cable or any affiliates without the prior written authorization of Casmco Cable.

CAUTION

The information included in this catalog is intended as a guideline only. For applications that require tight tolerances, please contact Casmco Cable for dimensional verification. Information herein is believed to be accurate as of the publication date; however, if an error exists it is unintentional and Casmco Cable is not responsible for any claim traceable to such error.