

125°C Irradiated Cross-linked Shielded Cable EV 737



Application

Cardiffcable EV737 is used for power battery systems in electric vehicles, fuel cell electric vehicles, and hybrid vehicles. It is soft and easily bendable; it has properties such as heat aging, low temperature, liquid, oil, humidity, heat, and ozone resistance. Braided tinned copper shielding makes the cable highly resistant to external electromagnetic interference and ensures the stability of the cable system. Its maximum voltage rating is 1500 Volts. It not only meets the needs of general passenger cars, but also meets the needs of high-power vehicles such as commercial vehicles, vans, and buses. This product could also be applied in energy storage systems.

Cable Structure

Conductor	Fine strands of bare copper, class 5, class 6 acc. to IEC 60228/VDE 0295
Insulation	Special halogen-free environmentally friendly irradiated cross-linked material
Insulation colour	Orange
Shield	Tinned copper wire braid + aluminum foil
Sheath	Special halogen-free environmentally friendly irradiated cross-linked material
Sheath colour	Orange

Technical Data

Rated Voltage	1500V
Test Voltage	5000V
Insulation Resistance	≥10 ⁹ Ω . mm
Minimum Bending Radius	Approximately 5 × cable diameter
Ambient Temperature	-40°C to +125°C
Flame Retardant Properties	IEC/EN 60332-1-2
Reference Standard	GB/T25085 ISO6722 QC/T 1037

Part No.	Rated Voltage	Conductor Size (mm ²)	Number of Strands	Diameter of Single Wire (mm)	Maximum Diameter of Conductor (mm)	Outside Diameter (mm)	Max DC Conductor Resistance (20°C)Ω/Km	Approx. Weight (kg/km)
737 00150 01 **	600VAC/900VDC	1.5	48	0.2	1.8	4.0	12.7	34.3
737 00250 01 **	600VAC/900VDC	2.5	80	0.2	2.2	4.6	7.6	48.4
737 00400 01 **	600VAC/900VDC	4	56	0.3	2.8	5.3	4.71	69.8
737 00600 01 **	600VAC/900VDC	6	84	0.3	3.4	6.3	3.14	98.7
737 01000 01 **	600VAC/900VDC	10	320	0.2	4.5	8.3	1.82	167.3
737 01600 01 **	600VAC/900VDC	16	512	0.2	5.8	9.6	1.16	241.9
737 02500 01 **	600VAC/900VDC	25	798	0.2	7.2	11.5	0.743	353.8
737 03500 01 **	600VAC/900VDC	35	1120	0.2	8.5	13.6	0.527	491.9
737 05000 01 **	600VAC/900VDC	50	1591	0.2	10.5	15.5	0.368	675.9
737 07000 01 **	600VAC/900VDC	70	2229	0.2	12.5	18.0	0.259	921.7
737 01000 02 **	1000VAC/1500VDC	10	323	0.2	4.5	9.7	1.82	197.9
737 01600 02 **	1000VAC/1500VDC	16	513	0.2	5.8	11.1	1.16	279.4
737 02500 02 **	1000VAC/1500VDC	25	798	0.2	7.2	13.3	0.743	407.9
737 03500 02 **	1000VAC/1500VDC	35	1121	0.2	8.5	14.7	0.527	537.4
737 05000 02 **	1000VAC/1500VDC	50	1591	0.2	10.5	17.1	0.368	739.3
737 07000 02 **	1000VAC/1500VDC	70	2229	0.2	12.5	19.0	0.259	967.1
737 09500 02 **	1000VAC/1500VDC	95	3034	0.2	14.8	21.2	0.196	1274.7
737 12000 02 **	1000VAC/1500VDC	120	3820	0.2	16.5	22.9	0.153	1546.7

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