

180°C Silicone Rubber Shielded Cable EV739



Application

Cardiffcable EV739 Shielded Cable is designed for electric vehicles, fuel cell vehicles, and hybrid vehicle battery systems. The product is flexible, easy to bend, and features excellent resistance to heat aging, low temperatures, fluids, oils, humidity, and ozone. The tinned copper braided shielding provides strong protection against external electromagnetic interference, ensuring the stability of the cable system. With a rated voltage of up to 1500V, this cable meets the needs of not only standard passenger vehicles but also high-power vehicles such as commercial vehicles, buses, and coaches. This product could also be applied in energy storage systems.

Cable Structure

Conductor	Finely stranded of bare copper, complying with IEC60228/VDE0295, Class 5 and 6 conductors.
Insulation	Special halogen-free eco-friendly silicone rubber
Insulation Color	Orange
Sheath	Special halogen-free eco-friendly silicone rubber
Sheath Color	Orange

Technical Data

Rated Voltage	1500V
Test Voltage	5000V
Insulation Resistance	$\geq 10^9 \Omega \cdot \text{mm}$
Minimum Bending Radius	Approximately 5xD
Ambient Temperature	-40°C to +180 °C
Flame Retardant Properties	IEC/EN 60332-1-2
Reference standard	GB/T25085 ISO 6722 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)
739 00150 01 **	600VAC/900VDC	1.5	48	0.2	1.8	4.0	12.7	32.5
739 00250 01 **	600VAC/900VDC	2.5	80	0.2	2.2	4.6	7.6	46.2
739 00400 01 **	600VAC/900VDC	4	56	0.3	2.8	5.3	4.71	67.0
739 00600 01 **	600VAC/900VDC	6	84	0.3	3.4	6.3	3.14	94.8
739 01000 01 **	600VAC/900VDC	10	320	0.2	4.5	8.3	1.82	160.0
739 01600 01 **	600VAC/900VDC	16	512	0.2	5.8	9.6	1.16	232.6
739 02500 01 **	600VAC/900VDC	25	798	0.2	7.2	11.5	0.743	341.3
739 03500 01 **	600VAC/900VDC	35	1120	0.2	8.5	13.6	0.527	474.0
739 05000 01 **	600VAC/900VDC	50	1591	0.2	10.5	15.5	0.368	653.9
739 07000 01 **	600VAC/900VDC	70	2229	0.2	12.5	18.0	0.259	892.7
739 01000 02 **	1000VAC/1500VDC	10	323	0.2	4.5	9.7	1.82	185.0
739 01600 02 **	1000VAC/1500VDC	16	513	0.2	5.8	11.1	1.16	262.7
739 02500 02 **	1000VAC/1500VDC	25	798	0.2	7.2	13.3	0.743	388.3
739 03500 02 **	1000VAC/1500VDC	35	1121	0.2	8.5	14.7	0.527	515.0
739 05000 02 **	1000VAC/1500VDC	50	1591	0.2	10.5	17.1	0.368	709.1
739 07000 02 **	1000VAC/1500VDC	70	2229	0.2	12.5	19.0	0.259	932.3
739 09500 02 **	1000VAC/1500VDC	95	3034	0.2	14.8	21.2	0.196	1234.6
739 12000 02 **	1000VAC/1500VDC	120	3820	0.2	16.5	22.9	0.153	1502.2

** denotes reserved bits. Please contact us for more details when placing an order.