

180°C Silicone Rubber Unshielded Cable EV759



Application

Cardiffcable EV759 Unshielded Cable is used in the power battery systems of electric vehicles, fuel cell vehicles, and hybrid vehicles. The product is flexible, easy to bend, and features resistance to heat aging, low temperatures, liquids, oils, humidity, ozone, and more. With a rated voltage of 1500V, it not only meets the needs of standard passenger vehicles but also fulfills the requirements of commercial vehicles, large buses, coaches and other high-power automotive applications. 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

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)
759 00150 01 **	600VAC/900VDC	1.5	48	0.2	1.8	2.3	12.7	16.8
759 00250 01 **	600VAC/900VDC	2.5	80	0.2	2.2	2.9	7.6	27.4
759 00400 01 **	600VAC/900VDC	4	56	0.3	2.8	3.5	4.71	42.4
759 00600 01 **	600VAC/900VDC	6	84	0.3	3.4	4.1	3.14	62.0
759 01000 01 **	600VAC/900VDC	10	320	0.2	4.5	5.7	1.82	109.9
759 01600 01 **	600VAC/900VDC	16	512	0.2	5.8	7.0	1.16	172.8
759 02500 01 **	600VAC/900VDC	25	798	0.2	7.2	8.4	0.743	259.9
759 03500 01 **	600VAC/900VDC	35	1120	0.2	8.5	10.0	0.527	365.9
759 05000 01 **	600VAC/900VDC	50	1591	0.2	10.5	11.8	0.368	517.3
759 07000 01 **	600VAC/900VDC	70	2229	0.2	12.5	13.9	0.259	721.1
759 01000 02 **	1000VAC/1500VDC	10	323	0.2	4.5	6.5	1.82	118.0
759 01600 02 **	1000VAC/1500VDC	16	513	0.2	5.8	7.9	1.16	183.5
759 02500 02 **	1000VAC/1500VDC	25	798	0.2	7.2	9.7	0.743	283.2
759 03500 02 **	1000VAC/1500VDC	35	1121	0.2	8.5	11.0	0.527	386.8
759 05000 02 **	1000VAC/1500VDC	50	1591	0.2	10.5	13.0	0.368	546.9
759 07000 02 **	1000VAC/1500VDC	70	2229	0.2	12.5	14.9	0.259	749.6
759 09500 02 **	1000VAC/1500VDC	95	3034	0.2	14.8	16.9	0.196	1003.4
759 12000 02 **	1000VAC/1500VDC	120	3820	0.2	16.5	18.6	0.153	1249.8

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