

150°C Irradiated Cross-linked Unshielded Cable EV 758



Application

Cardiffcable EV758 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. 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

Technical Data

Rated Voltage	1500V
Test Voltage	5000V
Insulation Resistance	$\geq 10^9 \Omega \cdot \text{mm}$
Minimum Bending Radius	Approximately $5 \times$ cable diameter
Ambient Temperature	-40°C to $+150^\circ\text{C}$
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)
758 00150 01 **	600VAC/900VDC	1.5	48	0.2	1.8	2.3	12.7	17.3
758 00250 01 **	600VAC/900VDC	2.5	80	0.2	2.2	2.9	7.6	28.1
758 00400 01 **	600VAC/900VDC	4	56	0.3	2.8	3.5	4.71	43.3
758 00600 01 **	600VAC/900VDC	6	84	0.3	3.4	4.1	3.14	63.1
758 01000 01 **	600VAC/900VDC	10	320	0.2	4.5	5.7	1.82	112.6
758 01600 01 **	600VAC/900VDC	16	512	0.2	5.8	7.0	1.16	176.5
758 02500 01 **	600VAC/900VDC	25	798	0.2	7.2	8.4	0.743	264.1
758 03500 01 **	600VAC/900VDC	35	1120	0.2	8.5	10.0	0.527	372.1
758 05000 01 **	600VAC/900VDC	50	1591	0.2	10.5	11.8	0.368	525.6
758 07000 01 **	600VAC/900VDC	70	2229	0.2	12.5	13.9	0.259	732.2
758 01000 02 **	1000VAC/1500VDC	10	323	0.2	4.5	6.5	1.82	123.9
758 01600 02 **	1000VAC/1500VDC	16	513	0.2	5.8	7.9	1.16	192.0
758 02500 02 **	1000VAC/1500VDC	25	798	0.2	7.2	9.7	0.743	291.3
758 03500 02 **	1000VAC/1500VDC	35	1121	0.2	8.5	11.0	0.527	396.4
758 05000 02 **	1000VAC/1500VDC	50	1591	0.2	10.5	13.0	0.368	560.1
758 07000 02 **	1000VAC/1500VDC	70	2229	0.2	12.5	14.9	0.259	765.4
758 09500 02 **	1000VAC/1500VDC	95	3034	0.2	14.8	16.9	0.196	1022.1
758 12000 02 **	1000VAC/1500VDC	120	3820	0.2	16.5	18.6	0.153	1271.0

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