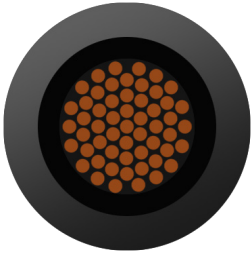




ELECTRIC VEHICLE DC CABLE



APPLICATION

This is a flexible single core PVC Cable. Its enhanced DC Power rating makes it ideal for high-powered charging stations.

For use internally and externally. Suitable to be used in free air, pipes and ducts in conduit, on masonry and inside metal structures.

CABLE STANDARDS

EN 50620,
IEC 62893,
IEC 60502-1,
EN 50575:2014,
EN 50575/A1:2016

CONSTRUCTION

Conductor: Class 5 Flexible Copper Conductor

Insulation: G16 Hard Grade Ethylene Propylene Rubber (HEPR)

Sheath: R16 Poly Vinyl Chloride (PVC)

Sheath Colour: **Grey** with **Black** inner

CHARACTERISTICS

Voltage Rating:

600 / 1200 Volts AC
1.8 KV DC

Temperature Limits: -15°C to +90°C

Maximum Short Circuit Temperature

Up to 240 mm²: +250°C
Above 240 mm²: +220°C

Minimum Bending Radius: As per cable manufacturer datasheet

Should not be installed at temperatures below 0°C

For more information contact:
01642 241 133



ELECTRIC VEHICLE DC CABLE - DIMENSIONS

CCC CODE	CONDUCTOR SIZE (MM ²)	STRANDING	NOMINAL DIAMETER OF CONDUCTOR (MM)	NOMINAL THICKNESS OF INSULATION (MM)	MAXIMUM OUTER DIAMETER (MM)	NOMINAL WEIGHT (KG/KM)
EVDC1X4	4	50/0.25	2.6	0.7	9.30	82
EVDC1X6	6	84/0.30	3.4	0.7	10	101
EVDC1X10	10	80/0.40	4.4	0.7	11	152
EVDC1X16	16	126/0.40	5.7	0.7	11.8	211
EVDC1X25	25	196/0.40	6.9	0.9	13.5	301
EVDC1X35	35	276/0.40	8.1	0.9	14.8	396
EVDC1X50	50	396/0.40	9.8	1.0	16.6	556
EVDC1X70	70	360/0.50	11.5	1.1	17.6	761
EVDC1X95	95	475/0.50	13.3	1.1	20.5	991
EVDC1X120	120	608/0.50	15.1	1.2	22.6	1219
EVDC1X150	150	756/0.50	16.8	1.4	25	1517
EVDC1X185	185	925/0.50	18.5	1.6	27.5	1821
EVDC1X240	240	1221/0.50	21.4	1.7	30.5	2366
EVDC1X300	300	1525/0.50	24	2.0	33.5	2947
EVDC1X400	400	2013/0.50	27.5	2.0	38	3870

ELECTRIC VEHICLE DC CABLE - ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA (MM ²)	CURRENT CARRYING CAPACITIES (AMPS)			NOMINAL ELECTRICAL RESISTANCE AT 20°C (OHM/KM)
	20°C IN GROUND/IN DUCT	30° IN CONDUIT (IN AIR)	30°C IN AIR	
4	35	37	45	4.95
6	44	48	58	3.30
10	59	66	80	1.91
16	77	88	107	1.21
25	100	117	135	0.78
35	121	144	169	0.554
50	150	175	207	0.386
70	184	222	268	0.272
95	217	269	328	0.206
120	259	312	383	0.161
150	287	355	444	0.129
185	323	417	510	0.106
240	379	490	607	0.0801
300	429	-	703	0.0641
400	541	-	823	0.0486

THE ABOVE IS IN ACCORDANCE WITH 18TH EDITION OF IET WIRING REGULATIONS

THE INFORMATION CONTAINED WITHIN THIS DATASHEET IS FOR GUIDANCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE OR LIABILITY. WE BELIEVE THE INFORMATION IS CORRECT AT THE TIME OF PUBLICATION. PLEASE NOTE WHEN SELECTING CABLE ACCESSORIES THAT ACTUAL CABLE DIMENSIONS MAY VARY DUE TO MANUFACTURING TOLERANCES.

For more information contact:
01642 241 133