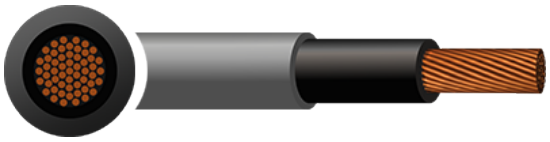
ConnectEV FG16R16 Electric Vehicle DC Cable



Description

This is a flexible single core PVC Cable which is manufactured to FG16(O)R16. 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.

Key Features

Voltage Rating
600/1000 V AC
900/1500 DC
600/1200 Volts AC
1800V DC

Minimum Bending Radius
6 x overall diameter

Flame Retardancy
BS EN 50575

Temperature Limits
Temperature Range: -15°C to +90°C
Maximum Short Circuit Temperature: Up to 240 mm²: +250°C
Maximum Short Circuit Temperature Above 240 mm²: +220°C

Standards

- IEC 62893
- EN 50620
- BS EN/IEC 60502-1
- BS EN/IEC 60228
- EN 50575/A1:2016
- FG16R16

Construction

- **Conductor**: Class 5 Flexible Tinned Copper
- **Insulation**: G16 Hard Grade Ethylene Propylene Rubber (HEPR)
- **Outer Sheath**: R16 Poly Vinyl Chloride (PVC)
- **Sheath Colour**: Grey

QA Lab

Cleveland Cable Test & Training Lab
Our state-of-the-art cable testing facility ensures that every cable meets the highest standards of quality and compliance through continuous, rigorous testing. Where applicable, cables are independently tested and certified by BASEC to ensure full compliance.

CPR
Cleveland Cable Company is committed to compliance with the Construction Products Regulation (CPR). Where applicable, all cables manufactured after 1st July 2017 have been assessed in accordance with CPR requirements, with full supporting documentation available.

Our Sustainability Commitment

We are committed to the journey to Net Zero as a business partner, an employer and a community member.

By thinking and acting sustainably, we deliver excellent customer service while reducing carbon emissions in collaboration with our customers and suppliers.

ecovadis
Cleveland Cable Company has been independently assessed by EcoVadis, a globally recognised provider of business sustainability ratings. Our score places us among the top 35% of companies evaluated worldwide, reflecting our strong commitment to environmental, social, and ethical performance

ConnectEV FG16R16 Electric Vehicle DC Cable - Dimensions

Reference	Conductor Size (mm2)	No Of Cores	Stranding(mm)	Nominal Diameter	Max Overall Dia	Weight(Kg/Km)
CONNECTEVDC1X4	4	1	50/0.25	2.6	9.3	82
CONNECTEVDC1X6	6	1	84/0.30	3.4	10	101
CONNECTEVDC1X10	10	1	80/0.40	4.4	11	152
CONNECTEVDC1X16	16	1	126/0.40	5.7	11.8	211
CONNECTEVDC1X25	25	1	196/0.40	6.9	13.5	301
CONNECTEVDC1X35	35	1	276/0.40	8.1	14.8	396
CONNECTEVDC1X50	50	1	396/0.40	9.8	16.6	556
CONNECTEVDC1X70	70	1	360/0.50	11.5	17.6	761
CONNECTEVDC1X95	95	1	475/0.50	13.3	20.5	991
CONNECTEVDC1X120	120	1	608/0.50	15.1	22.6	1219
CONNECTEVDC1X150	150	1	756/0.50	16.8	25	1517
CONNECTEVDC1X185	185	1	925/0.50	18.5	27.5	1821
CONNECTEVDC1X240	240	1	1221/0.50	21.4	30.5	2366
CONNECTEVDC1X300	300	1	1525/0.50	24	33.5	2947
CONNECTEVDC1X400	400	1	2013/0.50	27.5	38	3870

MCMK PVC POWER CABLE – ELECTRICAL CHARACTERISTICS

CONDUCTOR SIZE	REDUCED CONDUCTOR SIZE	MAXIMUM CONDUCTOR DC RESISTANCE AT AT 20°C	CURRENT CARRYING CAPACITY	
			IN GROUND	IN AIR
MM^2	MM^2	Ω/KM	AMPS	AMPS
1.5	1.5	12.1	26	14
2.5	2.5	7.41	35	20
6	6	3.08	57	33
10	10	1.83	77	62
16	16	1.15	100	82
25	16	0.727	130	107
35	16	0.524	160	135
50	25	0.387	190	160
70	35	0.268	240	200
95	50	0.193	285	245
120	70	0.153	325	280
150	70	0.124	370	320
185	95	0.0991	420	365
240	120	0.0754	480	425