EV MODE 4 Charging Cable

Eland Product Group: B6Q

APPLICATION

Class 6 flexible power cable with enhanced DC Power rating suitable for Mode 4 EV charging in public and commercial high-powered electric vehicle charging stations. Suitable for installations with possibility of water immersion (AD7). G16 quality HEPR insulation with low corrosive gas emission and low fire propagation properties.

CHARACTERISTICS

Voltage Rating
1500V DC

Test Voltage
3500V DC (2000V control/pilot cores)

Temperature Range
-40°C to +90°C

Maximum Short Circuit Temperature
+160°C

Minimum Bending Radius
5 x overall diameter

Maximum Tensile Load
15 N/mm²

CONSTRUCTION

Conductor
Class 6 Fine Flexible Copper

Insulation
Rubber Compound Type EV1-2

Control/Pilot Cores
Class 5 Flexible Copper with Rubber insulation

Sheath
PUR-HF (Polyurethane Halogen-Free)

Outer Sheath Colour
● Black ● Orange

STANDARDS

IEC 62893, EN 50620, ISO 61851, EN/IEC 60228, IEC 60332-1-2, IEC 60811-403/4, ISO 4892

THE CABLE LAB®

AN ISO/IEC 17025 AND IECEE CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.

SUSTAINABILITY COMMITMENT

We are on a journey to Net Zero.

We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable operations at: www.elandcables.com/company/about-us/esg-sustainability

REGULATORY COMPLIANCE

This cable meets the requirements of the Low Voltage Directive 2014/35/EU, the RoHS Directive 2015/65/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab®.

DIMENSIONS AND ELECTRICAL CHARACTERISTICS

ELAND PART NO.	CONSTRUCTION	CC/CP SIGNALING	MAX DC CURRENT AT 30°C	NOMINAL CABLE DIAMETER mm	CHARGING MODE	NOMINAL WEIGHT kg/km
B6R202016/16**	2 x 16 + 1G16	1x(6x1)	99 A	19.3	4	700
B6R202025/16**	2 x 25 + 1G16	1x(6x1)	131 A	22.1	4	950
B6R202035/16**	2 x 35 + 1G16	1x(6x1)	162 A	23.8	4	1150
B6R202050/25**	2 x 50 + 1G25	1x(6x1)	202 A	27.7	4	1650
B6R202070/35**	2 x 70 + 1G35	1x(6x1)	250 A	32.3	4	2250
B6R202095/50**	2 x 95 + 1G50	1x(6x1)	301 A	37.3	4	3000

** denotes sheath colour. For Orange add OR and Black add BK eg: B6Q205010 is 5 core 10mm² cable in black.

RATING FACTORS

Ambient Temperature	30°C	35°C	40°C	45°C	50°C	55°C
Current Correction Factor	1.0	0.91	0.82	0.71	0.58	0.41

UK T 020 7241 8787 | F 020 7241 8700 | sales@elandcables.com | www.elandcables.com
International T +44 20 7241 8740 | F +44 20 7241 8700 | international@elandcables.com