



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

ISO/IEC 17025 LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.



REGULATORY COMPLIANCE

This cable meets the requirements of the Low Voltage Directive 2014/35/EU and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.





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