



Eland EV Connection Cable



APPLICATION

Class 5 flexible power cable for use internally and externally in free air, in pipes and ducts, on masonry and in metal structures. Enhanced DC Power rating makes it ideal for high-powered 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

Nominal Voltage U_0/U (Um)

AC: 0.6/1 (1.2)kV | DC: 1.8/1.8 (1.8)kV

Test Voltage

AC: 4kV | DC: 9.6kV

Temperature Range

Operating: -15°C to +90°C

Minimum installation temperature: 0°C

Maximum Short Circuit Temperature to

240 mm²: +250°C

Above 240 mm²: +220°C

Minimum Bending Radius

Power flexible cables: 4 x overall diameter

Control flexible cables: 6 x overall diameter

Maximum pulling stress

50 N/mm²

CONSTRUCTION

Conductor

Class 5 Flexible Copper Conductor

Insulation

Elastomeric mixture insulation, G16 quality

Filler

Non-Fibrous, Non Hygroscopic

Outer Sheath

PVC (Polyvinyl chloride) R16 type

Core Identification

1 core: ● Black

Outer Sheath Colour

● Light Grey

BSI KITEMARK™ TESTED



Cables are tested and verified by The Cable Lab[®] to confirm they meet the quality standards required of the BSI Cable Testing Verification Kitemark™.

STANDARDS

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

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 is compliant with European Regulation EN 50575, the Construction Products Regulation.



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

| ELAND PART NUMBER | NO. OF CORES | NOMINAL CROSS SECTIONAL AREA mm ² | NOMINAL DIAMETER OF CONDUCTOR mm | NOMINAL THICKNESS OF INSULATION mm | MAXIMUM OUTER DIAMETER mm | NOMINAL WEIGHT kg/km |
|-------------------|--------------|--|----------------------------------|------------------------------------|---------------------------|----------------------|
| B2E010040GR | 1 | 4 | 2.6 | 0.7 | 9.30 | 82 |
| B2E010060GR | 1 | 6 | 3.4 | 0.7 | 9.90 | 101 |
| B2E01010GR | 1 | 10 | 4.4 | 0.7 | 10.9 | 152 |
| B2E01016GR | 1 | 16 | 5.7 | 0.7 | 11.4 | 211 |
| B2E01025GR | 1 | 25 | 6.9 | 0.9 | 13.2 | 301 |
| B2E01035GR | 1 | 35 | 8.1 | 0.9 | 14.6 | 396 |
| B2E01050GR | 1 | 50 | 9.8 | 1 | 16.4 | 556 |
| B2E01070GR | 1 | 70 | 11.6 | 1.1 | 17.3 | 761 |
| B2E01095GR | 1 | 95 | 13.3 | 1.1 | 20.4 | 991 |
| B2E01120GR | 1 | 120 | 15.1 | 1.2 | 22.4 | 1219 |
| B2E01150GR | 1 | 150 | 16.8 | 1.4 | 24.8 | 1517 |
| B2E01185GR | 1 | 185 | 18.6 | 1.6 | 27.2 | 1821 |
| B2E01240GR | 1 | 240 | 21.4 | 1.7 | 30.4 | 2366 |
| B2E01300GR | 1 | 300 | 23.9 | 1.8 | 33.0 | 2947 |
| B2E01400GR | 1 | 400 | 27,5 | 2 | 37.7 | 3870 |

ELECTRICAL CHARECTERISTICS

| NOMINAL CROSS SECTIONAL AREA mm ² | NOMINAL ELECTRICAL RESISTANCE AT 20°C ohm/km | CURRENT CARRYING CAPACITIES A | | |
|--|--|-------------------------------|-------------------------|-------------|
| | | 20°C In Ground/In Duct | 30° In Conduit (in Air) | 30°C In Air |
| 4 | 4.95 | 35 | 37 | 45 |
| 6 | 3.3 | 44 | 48 | 58 |
| 10 | 1.91 | 59 | 66 | 80 |
| 16 | 1.21 | 77 | 88 | 107 |
| 25 | 0.78 | 100 | 117 | 135 |
| 35 | 0.554 | 121 | 144 | 169 |
| 50 | 0.386 | 150 | 175 | 207 |
| 70 | 0.272 | 184 | 222 | 268 |
| 95 | 0.206 | 217 | 269 | 328 |
| 120 | 0.161 | 259 | 312 | 383 |
| 150 | 0.129 | 287 | 355 | 444 |
| 185 | 0.106 | 323 | 417 | 510 |
| 240 | 0.0801 | 379 | 490 | 607 |
| 300 | 0.0641 | 429 | - | 703 |
| 400 | 0.0486 | 541 | - | 823 |