



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 DV 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 U₀/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