



Eland Product Group: B1X

APPLICATION

Installation cable for buildings with high concentrations of people or valuable equipment, especially in difficult evacuation conditions. This cable can be used in cable conduit, cable duct, embedded in concrete, cement or walls. It can also be used in open air protected from direct UV rays, in industries and houses. Underground installation is allowed provided the cable is installed in a sufficiently drained tube. Operating temperatures down to -15°C are permitted, only if there are no mechanical forces nor movements.

CHARACTERISTICS

Voltage Rating U₀/U
0.6/1kV

Test Voltage
3.5kV AC

Temperature Rating
Operating: -15°C to +60°C
Minimum Installation: 0°C
Maximum conductor temperature in service: +90°C

Minimum Bending Radius
12 x overall diameter

CONSTRUCTION

Conductor
Class 1 Solid copper
Class 2 Stranded copper

Insulation
XLPE (Cross-Linked Polyethylene)

Filler
Filling compound or HF tape (Halogen free)

Inner Sheath
Filling compound or tape

Outer Sheath
HF Thermoplastic (Halogen free)

Sheath Colour
● Green

STANDARDS

NBN HD 604 Part 5/ Sect.L

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



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

| ELAND PART NO. | NO. OF CORES | NOMINAL CROSS SECTIONAL AREA mm ² | NOMINAL OUTER DIAMETER mm | NOMINAL WEIGHT kg/km |
|----------------|--------------|---|------------------------------|-------------------------|
| B1X01016 | 1 | 16 | 9.2 | 203 |
| B1X01025 | 1 | 25 | 10.7 | 289 |
| B1X01035 | 1 | 35 | 11.8 | 382 |
| B1X01050 | 1 | 50 | 13.2 | 510 |
| B1X01070 | 1 | 70 | 14.6 | 706 |
| B1X01095 | 1 | 95 | 16.5 | 963 |
| B1X01120 | 1 | 120 | 18.5 | 1205 |
| B1X01150 | 1 | 150 | 20.3 | 1476 |
| B1X01185 | 1 | 185 | 22.2 | 1832 |
| B1X01240 | 1 | 240 | 25.2 | 2399 |
| B1X020015 | 2 | 1.5 | 8.6 | 110 |
| B1X020025 | 2 | 2.5 | 9.3 | 141 |
| B1X020040 | 2 | 4 | 10.3 | 189 |
| B1X020060 | 2 | 6 | 11.3 | 242 |
| B1X02010 | 2 | 10 | 12.9 | 347 |
| B1X02016 | 2 | 16 | 16.5 | 557 |
| B1X030015 | 3 | 1.5 | 9.0 | 125 |
| B1X030025 | 3 | 2.5 | 9.8 | 164 |
| B1X030040 | 3 | 4 | 10.9 | 223 |
| B1X030060 | 3 | 6 | 12 | 295 |
| B1X03010 | 3 | 10 | 13.7 | 432 |
| B1X03016 | 3 | 16 | 17.7 | 697 |
| B1X03025 | 3 | 25 | 21.6 | 1052 |
| B1X03035 | 3 | 35 | 23.8 | 1365 |
| B1X03050 | 3 | 50 | 27.5 | 1844 |
| B1X03070 | 3 | 70 | 28.1 | 2233 |
| B1X03095 | 3 | 95 | 31.3 | 3025 |
| B1X03120 | 3 | 120 | 34.5 | 3831 |
| B1X03150 | 3 | 150 | 38.9 | 4690 |
| B1X03185 | 3 | 185 | 42.3 | 5788 |
| B1X03240 | 3 | 240 | 48.3 | 7581 |
| B1X040015 | 4 | 1.5 | 9.7 | 150 |
| B1X040025 | 4 | 2.5 | 10.5 | 196 |
| B1X040040 | 4 | 4 | 11.8 | 270 |
| B1X040060 | 4 | 6 | 13 | 360 |
| B1X04010 | 4 | 10 | 15.2 | 541 |
| B1X04016 | 4 | 16 | 19.5 | 879 |
| B1X04025 | 4 | 25 | 23.5 | 1280 |
| B1X04035 | 4 | 35 | 26.5 | 1725 |
| B1X04050 | 4 | 50 | 28.2 | 2016 |
| B1X04070 | 4 | 70 | 32.3 | 2954 |
| B1X04095 | 4 | 95 | 34.3 | 3519 |
| B1X04120 | 4 | 120 | 40.0 | 5116 |
| B1X04150 | 4 | 150 | 44.8 | 6182 |
| B1X04185 | 4 | 185 | 49.7 | 7771 |
| B1X04240 | 4 | 240 | 52.8 | 8780 |
| B1X050015 | 5 | 1.5 | 10.5 | 171 |
| B1X050025 | 5 | 2.5 | 11.5 | 230 |



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elandcables.com | [XGB Cca 1kV Cable](#)

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|----------------|--------------|---|------------------------------|-------------------------|
| B1X050060 | 5 | 6 | 14.2 | 428 |
| B1X05010 | 5 | 10 | 16.5 | 648 |
| B1X05016 | 5 | 16 | 21.5 | 1082 |
| B1X05025 | 5 | 25 | 25.7 | 1578 |
| B1X070015 | 7 | 1.5 | 11.3 | 205 |
| B1X070025 | 7 | 2.5 | 12.4 | 282 |
| B1X090015 | 9 | 1.5 | 13.9 | 299 |
| B1X090025 | 9 | 2.5 | 15.5 | 388 |
| B1X100015 | 10 | 1.5 | 14.4 | 310 |
| B1X100025 | 10 | 2.5 | 19.1 | 595 |
| B1X120015 | 12 | 1.5 | 14.9 | 343 |
| B1X120025 | 12 | 2.5 | 16.6 | 475 |
| B1X140015 | 14 | 1.5 | 15.8 | 390 |
| B1X190015 | 19 | 1.5 | 17.4 | 506 |
| B1X210015 | 21 | 1.5 | 18.4 | 539 |
| B1X240015 | 24 | 1.5 | 20.4 | 626 |
| B1X300015 | 30 | 1.5 | 21.8 | 745 |
| B1X370015 | 37 | 1.5 | 26.3 | 1127 |
| B1X400015 | 40 | 1.5 | 24.4 | 948 |

ELECTRICAL CHARACTERISTICS

| NOMINAL CROSS SECTIONAL AREA mm ² | CURRENT CARRYING CAPACITY | |
|---|---------------------------|----------------|
| | SINGLE CORE (A) | MULTI-CORE (A) |
| 1.5 | - | 23 |
| 2.5 | - | 32 |
| 4 | - | 42 |
| 6 | - | 54 |
| 10 | - | 75 |
| 16 | 102 | 100 |
| 25 | 135 | 127 |
| 35 | 169 | 157 |
| 50 | 207 | 192 |
| 70 | 268 | 246 |
| 95 | 328 | 299 |
| 120 | 379 | 346 |
| 150 | 443 | 399 |
| 185 | 509 | 456 |
| 240 | 604 | 538 |

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.