

## XVB 1kV Cable



Eland Product Group: B1Y

### APPLICATION

Installation cable with XLPE insulation, for domestic and industrial installations. Suited for indoor and outdoor use. This cable can be used in cable duct, cable tray, open air if protected from direct UV rays, embedded in concrete or cement or walls, in industries and houses. Not suitable for installation in ground.

### CHARACTERISTICS

**Voltage Rating** U<sub>0</sub>/U (Um)  
0.6/1kV

**Test Voltage**  
3.5kV AC

**Temperature Rating**  
Operating: -15°C to +60°C  
Minimum Installation: 0°C

**Maximum Conductor Temperature**  
90°C

### CONSTRUCTION

**Conductor**  
Class 1 Solid copper  
Class 2 Stranded copper

**Insulation**  
XLPE (Cross-Linked Polyethylene)

**Filler**  
Filling compound or tape

**Sheath**  
Fire-retardant PVC (Polyvinyl chloride)

**Sheath Colour**  
● Grey

### STANDARDS

NBN HD 604 Part 4/ Sect.G

### THE CABLE LAB<sup>®</sup>

AN ISO/IEC 17025 AND IECCE 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](http://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 2015/853/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab<sup>®</sup>.





## DIMENSIONS

| ELAND PART NO. | NO. OF CORES | NOMINAL CROSS SECTIONAL AREA<br>mm <sup>2</sup> | MINIMUM THICKNESS OF OUTER SHEATH<br>mm | NOMINAL THICKNESS OF INSULATION<br>mm | NOMINAL OUTER DIAMETER<br>mm | MAXIMUM OVEALL DIAMETER<br>mm | NOMINAL WEIGHT<br>kg/km |
|----------------|--------------|---|---|---------------------------------------|------------------------------|-------------------------------|-------------------------|
| B1Y01016       | 1            | 16  | 1.09                                    | 0.7                                   | 9.2                          | 10.1                          | 195                     |
| B1Y01025       | 1            | 25  | 1.09                                    | 0.9                                   | 10.6                         | 11.8                          | 288                     |
| B1Y01035       | 1            | 35  | 1.09                                    | 0.9                                   | 11.8                         | 13.1                          | 381                     |
| B1Y01050       | 1            | 50  | 1.09                                    | 1.0                                   | 13.3                         | 14.8                          | 504                     |
| B1Y01070       | 1            | 70  | 1.09                                    | 1.1                                   | 15.5                         | 16.7                          | 707                     |
| B1Y01095       | 1            | 95  | 1.18                                    | 1.1                                   | 16.5                         | 18.8                          | 988                     |
| B1Y01120       | 1            | 120   | 1.18                                    | 1.2                                   | 18.1                         | 20.6                          | 1235                    |
| B1Y01150       | 1            | 150   | 1.26                                    | 1.4                                   | 20.3                         | 23.0                          | 1500                    |
| B1Y01185       | 1            | 185   | 1.26                                    | 1.6                                   | 22.2                         | 25.2                          | 1862                    |
| B1Y01240       | 1            | 240   | 1.35                                    | 1.7                                   | 25.2                         | 28.2                          | 2414                    |
| B1Y01300       | 1            | 300   | 1.43                                    | 1.8                                   | 27.5                         | 31.0                          | 3002                    |
| B1Y020015      | 2            | 1.5   | 1.09                                    | 0.7                                   | 9.0                          | 10.7                          | 121                     |
| B1Y020025      | 2            | 2.5   | 1.09                                    | 0.7                                   | 9.6                          | 11.6                          | 152                     |
| B1Y020040      | 2            | 4   | 1.09                                    | 0.7                                   | 10.6                         | 12.8                          | 201                     |
| B1Y020060      | 2            | 6   | 1.09                                    | 0.7                                   | 11.6                         | 13.9                          | 256                     |
| B1Y02010       | 2            | 10  | 1.09                                    | 0.7                                   | 12.9                         | 15.8                          | 355                     |
| B1Y02016       | 2            | 16  | 1.09                                    | 0.7                                   | 16.5                         | 17.9                          | 551                     |
| B1Y02025       | 2            | 25  | 1.26                                    | 0.9                                   | 19.8                         | 21.8                          | 807                     |
| B1Y030015      | 3            | 1.5   | 1.09                                    | 0.7                                   | 9.3                          | 11.1                          | 136                     |
| B1Y030025      | 3            | 2.5   | 1.09                                    | 0.7                                   | 10.1                         | 12.2                          | 175                     |
| B1Y030040      | 3            | 4   | 1.09                                    | 0.7                                   | 11.2                         | 13.5                          | 239                     |
| B1Y030060      | 3            | 6   | 1.09                                    | 0.7                                   | 12.3                         | 14.7                          | 309                     |
| B1Y03010       | 3            | 10  | 1.09                                    | 0.7                                   | 13.7                         | 16.7                          | 442                     |
| B1Y03016       | 3            | 16  | 1.18                                    | 0.7                                   | 17.7                         | 19.1                          | 693                     |
| B1Y03025       | 3            | 25  | 1.26                                    | 0.9                                   | 21.6                         | 23.2                          | 1045                    |
| B1Y03035       | 3            | 35  | 1.35                                    | 0.9                                   | 23.8                         | 26.2                          | 1357                    |
| B1Y03050       | 3            | 50  | 1.43                                    | 1.0                                   | 27.5                         | 29.8                          | 1863                    |
| B1Y03070       | 3            | 70  | 1.52                                    | 1.1                                   | 28.2                         | 33.5                          | 2232                    |
| B1Y03095       | 3            | 95  | 1.6                                     | 1.1                                   | 31.3                         | 37.7                          | 3020                    |
| B1Y03120       | 3            | 120   | 1.69                                    | 1.2                                   | 34.5                         | 41.1                          | 3826                    |
| B1Y03150       | 3            | 150   | 1.86                                    | 1.4                                   | 39                           | 46.3                          | 4682                    |
| B1Y03185       | 3            | 185   | 1.94                                    | 1.6                                   | 42.3                         | 51.4                          | 5786                    |
| B1Y03240       | 3            | 240   | 2.11                                    | 1.7                                   | 48.3                         | 58.0                          | 7574                    |
| B1Y040015      | 4            | 1.5   | 1.09                                    | 0.7                                   | 10.1                         | 12.1                          | 160                     |
| B1Y040025      | 4            | 2.5   | 1.09                                    | 0.7                                   | 11.0                         | 13.1                          | 209                     |
| B1Y040040      | 4            | 4   | 1.09                                    | 0.7                                   | 12.2                         | 14.6                          | 287                     |
| B1Y040060      | 4            | 6   | 1.09                                    | 0.7                                   | 13.3                         | 16                            | 378                     |
| B1Y04010       | 4            | 10  | 1.18                                    | 0.7                                   | 15.4                         | 18.4                          | 554                     |
| B1Y04016       | 4            | 16  | 1.18                                    | 0.7                                   | 19.5                         | 21.0                          | 867                     |
| B1Y04025       | 4            | 25  | 1.35                                    | 0.9                                   | 23.0                         | 25.6                          | 1274                    |
| B1Y04035       | 4            | 35  | 1.43                                    | 0.9                                   | 26.5                         | 29                            | 1714                    |
| B1Y04050       | 4            | 50  | 1.52                                    | 1.0                                   | 30.5                         | 34.0                          | 2363                    |
| B1Y04070       | 4            | 70  | 1.6                                     | 1.1                                   | 32.3                         | 38.9                          | 2950                    |
| B1Y04095       | 4            | 95  | 1.69                                    | 1.1                                   | 34.3                         | 41.3                          | 3515                    |
| B1Y04120       | 4            | 120   | 1.86                                    | 1.2                                   | 40.0                         | 47.8                          | 5101                    |
| B1Y04150       | 4            | 150   | 1.94                                    | 1.4                                   | 44.8                         | 53.4                          | 6173                    |
| B1Y04185       | 4            | 185   | 2.03                                    | 1.6                                   | 45.8                         | 57.2                          | 6770                    |
| B1Y04240       | 4            | 240   | 2.2                                     | 1.7                                   | 52.8                         | 65.5                          | 8770                    |



| ELAND PART NO. | NO. OF CORES | NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup> | MINIMUM THICKNESS OF OUTER SHEATH mm | NOMINAL THICKNESS OF INSULATION mm | NOMINAL OUTER DIAMETER mm | MAXIMUM OVEALL DIAMETER mm | NOMINAL WEIGHT kg/km |
|----------------|--------------|--|--------------------------------------|------------------------------------|---------------------------|----------------------------|----------------------|
| B1Y050015      | 5            | 1.5  | 1.09                                 | 0.7                                | 10.8                      | 13.0                       | 183                  |
| B1Y050025      | 5            | 2.5  | 1.09                                 | 0.7                                | 11.8                      | 14.2                       | 243                  |
| B1Y050040      | 5            | 4  | 1.09                                 | 0.7                                | 13.2                      | 15.8                       | 338                  |
| B1Y050060      | 5            | 6  | 1.09                                 | 0.7                                | 14.5                      | 17.3                       | 448                  |
| B1Y05010       | 5            | 10   | 1.18                                 | 0.7                                | 16.5                      | 19.8                       | 663                  |
| B1Y05016       | 5            | 16   | 1.26                                 | 0.7                                | 21.8                      | 23.1                       | 1082                 |
| B1Y05025       | 5            | 25   | 1.35                                 | 0.9                                | 25.7                      | 28.1                       | 1530                 |
| B1Y05035       | 5            | 35   | 1.43                                 | 0.9                                | 29.7                      | -                          | 2143                 |
| B1Y070015      | 7            | 1.5  | 1.09                                 | 0.7                                | 127.0                     | 13.9                       | 262                  |
| B1Y070025      | 7            | 2.5  | 1.09                                 | 0.7                                | 12.7                      | 15.3                       | 304                  |
| B1Y090015      | 9            | 1.5  | 1.18                                 | 0.7                                | 148.0                     | 16.5                       | 291                  |
| B1Y090025      | 9            | 2.5  | 1.09                                 | 0.9                                | 18.3                      | 18.5                       | 563                  |
| B1Y100015      | 10           | 1.5  | 1.09                                 | 0.7                                | 178.0                     | 17.2                       | 457                  |
| B1Y100025      | 10           | 2.5  | 1.18                                 | 0.7                                | 19.1                      | 19.3                       | 600                  |
| B1Y120015      | 12           | 1.5  | 1.09                                 | 0.7                                | 18.0                      | 17.6                       | 495                  |
| B1Y120025      | 12           | 2.5  | 1.18                                 | 0.7                                | 20.0                      | 19.8                       | 647                  |
| B1Y140015      | 14           | 1.5  | 1.18                                 | 0.7                                | 18.8                      | 18.7                       | 549                  |
| B1Y140025      | 14           | 2.5  | 1.18                                 | 0.7                                | 20.4                      | 20.8                       | 722                  |
| B1Y190015      | 19           | 1.5  | 1.18                                 | 0.7                                | 20.5                      | 20.6                       | 664                  |
| B1Y190025      | 19           | 2.5  | 1.26                                 | 0.7                                | 22.5                      | 23.2                       | 877                  |
| B1Y210015      | 21           | 1.5  | 1.26                                 | 0.7                                | 21.6                      | 22.6                       | 1169                 |
| B1Y240015      | 24           | 1.5  | 1.26                                 | 0.7                                | 23.8                      | 24.1                       | 832                  |
| B1Y240025      | 24           | 2.5  | 1.26                                 | 0.7                                | 25.7                      | 27.1                       | 1090                 |
| B1Y300015      | 30           | 1.5  | 1.35                                 | 0.7                                | 24.7                      | 25.6                       | 1242                 |
| B1Y300025      | 30           | 2.5  | 1.43                                 | 0.7                                | 27.2                      | 28.9                       | 1274                 |
| B1Y370015      | 37           | 1.5  | 1.35                                 | 0.7                                | 26.5                      | 27.6                       | 1117                 |
| B1Y400015      | 40           | 1.5  | 1.43                                 | 0.7                                | 27.3                      | 29.3                       | 1167                 |

## ELECTRICAL CHARACTERISTICS

| NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup> | 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            |
| 300  | 699                       | -              |

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.