



## EAXeCG Cable



Eland Product Group: B5P

### APPLICATION

Medium voltage power cables with additional waterblocking properties for distribution networks and generation units, suitable for external installation including in direct in ground and in buried cable ducts. UV Resistant.

### CHARACTERISTICS

#### Voltage Rating U<sub>o</sub>/U (Um)

8.7/15 (17.5)kV

12/20 (24)kV

18/30 (36)kV

#### Test Voltage

35kV AC 50Hz (5 mins)

42kV AC 50Hz (5 mins)

63 kV AC 50Hz (5 mins)

#### Temperature Rating

-20°C to +60°C

Permissible Conductor Operating Temperature: +90°C

Permissible Short Circuit Temperature up to 5 sec: 250°C

#### Minimum Bending Radius

15 x overall diameter

### CONSTRUCTION

#### Conductor

Class 2 Stranded Aluminium

#### Conductor Screen

Semi-conductive material

#### Insulation

XLPE (Cross-Linked Polyethylene)

#### Insulation Screen

Semi-conductive material (bonded)

#### Longitudinal Waterblocking

Semi-conductive swellable tape

#### Screen

Copper wires and copper tape

#### Longitudinal Waterblocking

Swellable Tapes

#### Outer Sheath

LSZH (Low Smoke Zero Halogen)

#### Sheath Colour

● Red ● Black

### STANDARDS

IEC 60502-2, IEC 60228,

Generally to HD620 10B

Low Smoke Zero Halogen: IEC 60754-1/2, IEC 61034-2

Flame Retardant: EN 60332-3-24 Cat C, IEC 60332-1-2

UV Resistant: EN 50396

Abrasion and Tear Resistant: EN 60229-4.1

Impact rated to: AG2 EN 60364-5.51

### 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 RoHS Directive 2015/65/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab<sup>®</sup>.





## DIMENSIONS 8.7/15 (17.5)KV

| ELAND PART NO. | NO. OF CORES | NOMINAL CROSS SECTIONAL AREA<br>mm <sup>2</sup> | NOMINAL DIAMETER OF CONDUCTOR<br>mm | INSULATION<br>mm  |                       | METALLIC SCREEN<br>mm                    |                             | NOMINAL OUTER DIAMETER OF CABLE<br>mm | NOMINAL WEIGHT<br>kg/km | MAXIMUM PULLING FORCE<br>kN | MINIMUM BENDING RADIUS<br>m |
|----------------|--------------|-------------------------------------------------|-------------------------------------|-------------------|-----------------------|------------------------------------------|-----------------------------|---------------------------------------|-------------------------|-----------------------------|-----------------------------|
|                |              |                                                 |                                     | Nominal thickness | Nominal diameter over | Nominal cross section<br>mm <sup>2</sup> | Nominal diameter over<br>mm |                                       |                         |                             |                             |
| B5P15KV01050   | 1            | 50                                              | 8.25                                | 4.5               | 18.5                  | 16                                       | 22.6                        | 28.1                                  | 720                     | 1.5                         | 0.42                        |
| B5P15KV01095   | 1            | 95                                              | 11.3                                | 4.5               | 21.5                  | 35                                       | 25.6                        | 31.2                                  | 1100                    | 2.85                        | 0.47                        |
| B5P15KV01150   | 1            | 150                                             | 14.2                                | 4.5               | 24.4                  | 50                                       | 28.5                        | 34.1                                  | 1440                    | 4.5                         | 0.51                        |
| B5P15KV01240   | 1            | 240                                             | 17.9                                | 4.5               | 28.1                  | 50                                       | 32.2                        | 37.8                                  | 1780                    | 7.2                         | 0.57                        |
| B5P15KV01400   | 1            | 400                                             | 22.9                                | 4.5               | 33.1                  | 50                                       | 37.2                        | 42.8                                  | 2300                    | 12                          | 0.64                        |
| B5P15KV01630   | 1            | 630                                             | 29.3                                | 4.5               | 40.3                  | 50                                       | 44.6                        | 50.3                                  | 3190                    | 18.9                        | 0.75                        |

## ELECTRICAL CHARACTERISTICS 8.7/15 (17.5)KV

| NOMINAL CROSS SECTIONAL AREA<br>CONDUCTOR/<br>METALLIC<br>SCREEN<br>mm <sup>2</sup> | MAXIMUM CONDUCTOR DC RESISTANCE<br>AT 20 °C<br>ohm/km | MAXIMUM CONDUCTOR AC RESISTANCE<br>AT 90 °C<br>ohm/km | MAXIMUM METALLIC SCREEN DC RESISTANCE<br>AT 20 °C<br>ohm/km | MAXIMUM METALLIC SCREEN AC RESISTANCE<br>AT 80 °C<br>ohm/km | ELECTRICAL FIELD STRESS<br>kV/mm |            | RESISTANCE<br>ohm/km | CAPACITANCE<br>μF/km | CAPACITANCE REACTANCE<br>ohm/km | CHARGING CURRENT<br>ohm/km | REACTANCE<br>ohm/km |
|-------------------------------------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------------------------|----------------------------------|------------|----------------------|----------------------|---------------------------------|----------------------------|---------------------|
|                                                                                     |                                                       |                                                       |                                                             |                                                             | Conductor                        | Insulation |                      |                      |                                 |                            |                     |
| 50/16                                                                               | 0.641                                                 | 0.822                                                 | 1.12                                                        | 1.38                                                        | 2.72                             | 1.37       | 2.20                 | 0.19                 | 17.2                            | 0.51                       | 0.076               |
| 95/35                                                                               | 0.320                                                 | 0.411                                                 | 0.51                                                        | 0.63                                                        | 2.53                             | 1.45       | 1.04                 | 0.23                 | 13.9                            | 0.63                       | 0.064               |
| 150/50                                                                              | 0.206                                                 | 0.265                                                 | 0.36                                                        | 0.44                                                        | 2.42                             | 1.51       | 0.71                 | 0.27                 | 11.8                            | 0.74                       | 0.057               |
| 240/50                                                                              | 0.125                                                 | 0.161                                                 | 0.36                                                        | 0.44                                                        | 2.32                             | 1.56       | 0.60                 | 0.32                 | 9.9                             | 0.88                       | 0.050               |
| 400/50                                                                              | 0.0778                                                | 0.102                                                 | 0.36                                                        | 0.44                                                        | 2.24                             | 1.61       | 0.54                 | 0.39                 | 8.1                             | 1.07                       | 0.044               |
| 630/50                                                                              | 0.0469                                                | 0.0634                                                | 0.36                                                        | 0.44                                                        | 2.14                             | 1.65       | 0.51                 | 0.49                 | 6.5                             | 1.33                       | 0.041               |

| NOMINAL CROSS SECTIONAL AREA<br>CONDUCTOR/<br>METALLIC<br>SCREEN<br>mm <sup>2</sup> | INDUCTANCE<br>L<br>mH/km |       |       | INDUCTANCE REACTANCE<br>XL<br>ohm/mm |       |       | IMPEDANCE<br>ohm/km |       |       |
|-------------------------------------------------------------------------------------|--------------------------|-------|-------|--------------------------------------|-------|-------|---------------------|-------|-------|
|                                                                                     | 0°0°2                    | 000°3 | 000°4 | 0°0°2                                | 000°3 | 000°4 | 0°0°2               | 000°3 | 000°4 |
| 50/16                                                                               | 0.43                     | 0.73  | 0.62  | 0.136                                | 0.229 | 0.194 | 0.833               | 0.853 | 0.845 |
| 95/35                                                                               | 0.39                     | 0.67  | 0.58  | 0.123                                | 0.212 | 0.181 | 0.429               | 0.462 | 0.449 |
| 150/50                                                                              | 0.36                     | 0.63  | 0.55  | 0.114                                | 0.199 | 0.172 | 0.288               | 0.331 | 0.316 |
| 240/50                                                                              | 0.34                     | 0.59  | 0.52  | 0.106                                | 0.187 | 0.164 | 0.193               | 0.247 | 0.230 |
| 400/50                                                                              | 0.31                     | 0.55  | 0.50  | 0.099                                | 0.174 | 0.157 | 0.142               | 0.201 | 0.187 |
| 630/50                                                                              | 0.30                     | 0.52  | 0.48  | 0.093                                | 0.163 | 0.151 | 0.113               | 0.174 | 0.164 |

2 - Cables in trefoil formation, the distance between cables De

3 - Cables in flat formation (in the ground), the distance between cables De + 70 mm

4 - Cables in flat formation (in the air), the distance between cables 2 x De

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## CURRENT RATING FOR SINGLE-CORE CABLES-AMPERES 8.7/15 (17.5)KV

| NOMINAL CROSS SECTIONAL AREA<br>mm <sup>2</sup> | MAXIMUM SHORT CIRCUIT CAPACITY CONDUCTOR<br>kA/sec | MAXIMUM SHORT CIRCUIT CAPACITY SCREEN<br>kA/sec | FLAT FORMATION  |           | TREFOIL FORMATION |           | FLAT FORMATION |           | TREFOIL FORMATION |           |
|-------------------------------------------------|----------------------------------------------------|-------------------------------------------------|-----------------|-----------|-------------------|-----------|----------------|-----------|-------------------|-----------|
|                                                 |                                                    |                                                 | CONFIGURATIONS  |           |                   |           |                |           |                   |           |
|                                                 |                                                    |                                                 | SPP,CB          | BOTH-ENDS | SPP,CB            | BOTH-ENDS | SPP,CB         | BOTH-ENDS | SPP,CB            | BOTH-ENDS |
|                                                 |                                                    |                                                 | CABLES IN EARTH |           |                   |           | CABLES IN AIR  |           |                   |           |
| 50/16                                           | 4.7                                                | 3.7                                             | 228             | 227       | 214               | 214       | 235            | 234       | 198               | 198       |
| 95/35                                           | 9.0                                                | 7.1                                             | 337             | 329       | 315               | 314       | 357            | 349       | 299               | 298       |
| 150/50                                          | 14.2                                               | 9.8                                             | 433             | 412       | 406               | 402       | 469            | 449       | 393               | 389       |
| 240/50                                          | 22.7                                               | 9.8                                             | 574             | 527       | 536               | 527       | 639            | 594       | 533               | 525       |
| 400/50                                          | 37.8                                               | 9.8                                             | 751             | 658       | 700               | 683       | 865            | 774       | 717               | 702       |
| 630/50                                          | 59.5                                               | 9.8                                             | 990             | 818       | 917               | 884       | 1184           | 1003      | 976               | 944       |

SPB - Single Point Bonding; CB - Cross-bonding Both-ends; BE - Both-ends bonding

Laying conditions at trefoil formation are as below:

-Soil thermal resistivity: 1 /2.5 k m/W

-Burial depth: 0.7m

-Ground temperature: 20°C | Ambient temperature: 30°C

## DIMENSIONS 12/20 (24)KV

| ELAND PART NO. | NO. OF CORES | NOMINAL CROSS SECTIONAL AREA<br>mm <sup>2</sup> |        | NOMINAL CONDUCTOR DIAMETER<br>mm | NUMBER WIRES CONDUCTOR<br>mm | NOM. THICKNESS SEMI-CON. LAYER |             | NOMINAL INSULATION THICKNESS<br>mm | MINIMUM INSULATION THICKNESS<br>mm | NOMINAL DIAMETER OVER INSULATION<br>mm |
|----------------|--------------|-------------------------------------------------|--------|----------------------------------|------------------------------|--------------------------------|-------------|------------------------------------|------------------------------------|----------------------------------------|
|                |              | Conductor                                       | Screen |                                  |                              | INNER<br>mm                    | OUTER<br>mm |                                    |                                    |                                        |
| B5P20KV01050   | 1            | 50                                              | 16     | 8.20                             | 7 x 2.90                     | 0.50                           | 0.40        | 5.50                               | 4.85                               | 20.4                                   |
| B5P20KV01095   | 1            | 95                                              | 16     | 11.4                             | 19 x 2.55                    | 0.50                           | 0.40        | 5.50                               | 4.85                               | 23.6                                   |
| B5P20KV01150   | 1            | 150                                             | 25     | 14.4                             | 19 x 3.16                    | 0.50                           | 0.40        | 5.50                               | 4.85                               | 26.6                                   |
| B5P20KV01240   | 1            | 240                                             | 25     | 18.2                             | 37 x 2.90                    | 0.50                           | 0.40        | 5.50                               | 4.85                               | 30.9                                   |
| B5P20KV01400   | 1            | 400                                             | 35     | 23.0                             | 61 x 2.90                    | 0.50                           | 0.40        | 5.50                               | 4.85                               | 35.7                                   |
| B5P20KV01630   | 1            | 630                                             | 35     | 30.2                             | 61 x 3.65                    | 0.50                           | 0.40        | 5.50                               | 4.85                               | 42.9                                   |

| NOMINAL CROSS SECTIONAL AREA<br>mm <sup>2</sup> | NUMBER WIRES SCREEN<br>mm | DIAMETER TAPE SCREEN<br>mm | NOMINAL SHEATH THICKNESS<br>mm | MINIMUM SHEATH THICKNESS<br>mm | NOMINAL OVERALL DIAMETER<br>mm | NOMINAL WEIGHT<br>kg/km | MAXIMUM SIDEWALL PRESSURE<br>N/cm <sup>2</sup> | MAXIMUM PULLING TENSION<br>N |
|-------------------------------------------------|---------------------------|----------------------------|--------------------------------|--------------------------------|--------------------------------|-------------------------|------------------------------------------------|------------------------------|
| 50                                              | 44 x 0.66                 | 1x0.1x10                   | 1.80                           | 1.24                           | 27                             | 800                     | 284                                            | 1500                         |
| 95                                              | 44 x 0.66                 | 1x0.1x10                   | 1.90                           | 1.32                           | 31                             | 1100                    | 448                                            | 2850                         |
| 150                                             | 71 x 0.66                 | 1x0.1x10                   | 2.00                           | 1.40                           | 34                             | 1400                    | 620                                            | 4500                         |
| 240                                             | 71 x 0.66                 | 1x0.1x10                   | 2.10                           | 1.48                           | 38                             | 1800                    | 854                                            | 7200                         |
| 400                                             | 60 x 0.85                 | 1x0.1x15                   | 2.30                           | 1.64                           | 44                             | 2500                    | 1194                                           | 12000                        |
| 630                                             | 60 x 0.85                 | 1x0.1x15                   | 2.50                           | 1.80                           | 51                             | 3500                    | 1552                                           | 18900                        |

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## ELECTRICAL CHARACTERISTICS 12/20 (24)KV

| NOMINAL CROSS SECTIONAL AREA<br>mm <sup>2</sup> | CONDUCTOR DC RESISTANCE AT 20°C<br>ohms/km | CONDUCTOR DC RESISTANCE AT 75°C<br>ohms/km | CONDUCTOR AC RESISTANCE BY MAX TEMP<br>ohms/km | CURRENT CARRYING CAPACITY (A) |             | REACTANCE<br>ohms/km | CHARGING ADMITTANCE<br>A/km | CAPACITANCE<br>uF/km | S.C.C CONDUCTOR 1SEC<br>kA | S.C.C SCREEN 1SEC<br>kA | CONDUCTOR LOSSES IN THE GROUND<br>kW/km |
|-------------------------------------------------|--------------------------------------------|--------------------------------------------|------------------------------------------------|-------------------------------|-------------|----------------------|-----------------------------|----------------------|----------------------------|-------------------------|-----------------------------------------|
|                                                 |                                            |                                            |                                                | In Ground 20°C                | In Air 30°C |                      |                             |                      |                            |                         |                                         |
| 50                                              | 0.641                                      | 1.32                                       | 0.825                                          | 195                           | 217         | 0.19                 | 0.40                        | 0.15                 | 4.70                       | 3.2                     | 31.4                                    |
| 95                                              | 0.32                                       | 0.662                                      | 0.412                                          | 282                           | 328         | 0.18                 | 0.36                        | 0.19                 | 8.93                       | 3.2                     | 32.8                                    |
| 150                                             | 0.203                                      | 0.426                                      | 0.268                                          | 353                           | 425         | 0.17                 | 0.33                        | 0.22                 | 14.10                      | 5.0                     | 33.4                                    |
| 240                                             | 0.125                                      | 0.258                                      | 0.160                                          | 457                           | 573         | 0.16                 | 0.31                        | 0.27                 | 22.56                      | 5.0                     | 34.0                                    |
| 400                                             | 0.0778                                     | 0.161                                      | 0.103                                          | 566                           | 740         | 0.16                 | 0.29                        | 0.32                 | 37.60                      | 7.1                     | 33.0                                    |
| 630                                             | 0.0469                                     | 0.0972                                     | 0.0640                                         | 701                           | 882         | 0.15                 | 0.27                        | 0.40                 | 59.22                      | 7.1                     | 47.3                                    |

Derating factor (ground): 1 (Soil thermal resistivity: 1km/W, Depth 0.8m, Flat formation - touching)

Derating factor (air): 1 (Flat formation - touching)

## DIMENSIONS 18/30 (36)KV

| ELAND PART NO. | NO. OF<br>CORES | NOMINAL CROSS<br>SECTIONAL AREA |        | NOMINAL<br>CONDUCTOR<br>DIAMETER | NUMBER<br>WIRES<br>CONDUCTOR | NOM. THICKNESS<br>SEMI-CON. LAYER |       | NOMINAL<br>INSULATION<br>THICKNESS | MINIMUM<br>INSULATION<br>THICKNESS | NOMINAL<br>DIAMETER OVER<br>INSULATION |
|----------------|-----------------|---------------------------------|--------|----------------------------------|------------------------------|-----------------------------------|-------|------------------------------------|------------------------------------|----------------------------------------|
|                |                 | mm <sup>2</sup>                 |        |                                  |                              | INNER                             | OUTER |                                    |                                    |                                        |
|                |                 | Conductor                       | Screen |                                  |                              |                                   |       |                                    |                                    |                                        |
| B5P30KV01050   | 1               | 50                              | 16     | 8.20                             | 7 x 2.90                     | 0.50                              | 0.40  | 8.00                               | 7.10                               | 25.2                                   |
| B5P30KV01095   | 1               | 95                              | 16     | 11.4                             | 19 x 2.55                    | 0.50                              | 0.40  | 8.00                               | 7.10                               | 28.4                                   |
| B5P30KV01150   | 1               | 150                             | 25     | 14.4                             | 19 x 3.16                    | 0.50                              | 0.40  | 8.00                               | 7.10                               | 31.4                                   |
| B5P30KV01240   | 1               | 240                             | 25     | 18.2                             | 37 x 2.90                    | 0.50                              | 0.40  | 8.00                               | 7.10                               | 35.7                                   |
| B5P30KV01400   | 1               | 400                             | 35     | 23.0                             | 61 x 2.90                    | 0.50                              | 0.40  | 8.00                               | 7.10                               | 40.5                                   |
| B5P30KV01630   | 1               | 630                             | 35     | 30.2                             | 61 x 3.65                    | 0.50                              | 0.40  | 8.00                               | 7.10                               | 47.7                                   |

| NOMINAL CROSS SECTIONAL AREA<br>mm <sup>2</sup> | NUMBER WIRES SCREEN<br>mm | DIAMETER TAPE SCREEN<br>mm | NOMINAL SHEATH THICKNESS<br>mm | MINIMUM SHEATH THICKNESS<br>mm | NOMINAL OVERALL DIAMETER<br>mm | NOMINAL WEIGHT<br>kg/km | MAXIMUM SIDEWALL PRESSURE<br>N/cm <sup>2</sup> | MAXIMUM PULLING TENSION<br>N |
|-------------------------------------------------|---------------------------|----------------------------|--------------------------------|--------------------------------|--------------------------------|-------------------------|------------------------------------------------|------------------------------|
| 50                                              | 44 x 0.66                 | 1x0.1x10                   | 2.00                           | 1.40                           | 32                             | 1000                    | 249                                            | 1500                         |
| 95                                              | 44 x 0.66                 | 1x0.1x10                   | 2.10                           | 1.48                           | 36                             | 1300                    | 401                                            | 2850                         |
| 150                                             | 71 x 0.66                 | 1x0.1x10                   | 2.20                           | 1.56                           | 39                             | 1600                    | 562                                            | 4500                         |
| 240                                             | 71 x 0.66                 | 1x0.1x10                   | 2.30                           | 1.64                           | 43                             | 2000                    | 784                                            | 7200                         |
| 400                                             | 60 x 0.85                 | 1x0.1x15                   | 2.50                           | 1.80                           | 49                             | 2750                    | 1111                                           | 12000                        |
| 630                                             | 60 x 0.85                 | 1x0.1x15                   | 2.70                           | 1.96                           | 56                             | 3750                    | 1462                                           | 18900                        |

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## ELECTRICAL CHARACTERISTICS 18/30 (36)KV

| NOMINAL<br>CROSS<br>SECTIONAL<br>AREA<br><br>mm <sup>2</sup> | CONDUCTOR<br>DC RESISTANCE<br>AT 20°C<br><br>ohms/km | CONDUCTOR<br>DC RESISTANCE<br>AT 75°C<br><br>ohms/km | CONDUCTOR<br>AC RESISTANCE<br>BY MAX TEMP<br><br>ohms/km | CURRENT CARRYING<br>CAPACITY ( A ) |                | REACTANCE<br><br>ohms/km | CHARGING<br>ADMITTANCE<br><br>A/km | CAPACITANCE<br><br>uF/km | S.C.C<br>CONDUCTOR<br>1SEC<br>kA | S.C.C<br>SCREEN<br>1SEC<br>kA | CONDUCTOR<br>LOSSES IN THE<br>GROUND<br><br>kW/km |
|--------------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|----------------------------------------------------------|------------------------------------|----------------|--------------------------|------------------------------------|--------------------------|----------------------------------|-------------------------------|---------------------------------------------------|
|                                                              |                                                      |                                                      |                                                          | In Ground<br>20°C                  | In Air<br>30°C |                          |                                    |                          |                                  |                               |                                                   |
| 50                                                           | 0.641                                                | 1.32                                                 | 0.825                                                    | 196                                | 217            | 0.20                     | 0.44                               | 0.12                     | 4.70                             | 3.2                           | 31.7                                              |
| 95                                                           | 0.32                                                 | 0.662                                                | 0.412                                                    | 284                                | 328            | 0.19                     | 0.39                               | 0.14                     | 8.93                             | 3.2                           | 33.2                                              |
| 150                                                          | 0.203                                                | 0.426                                                | 0.268                                                    | 355                                | 425            | 0.18                     | 0.36                               | 0.17                     | 14.10                            | 5.0                           | 33.8                                              |
| 240                                                          | 0.125                                                | 0.258                                                | 0.160                                                    | 461                                | 572            | 0.17                     | 0.34                               | 0.20                     | 22.56                            | 5.0                           | 34.6                                              |
| 400                                                          | 0.0778                                               | 0.161                                                | 0.103                                                    | 572                                | 737            | 0.16                     | 0.32                               | 0.24                     | 37.60                            | 7.1                           | 33.7                                              |
| 630                                                          | 0.0469                                               | 0.0972                                               | 0.0640                                                   | 860                                | 1080           | 0.16                     | 0.29                               | 0.29                     | 59.22                            | 7.1                           | 47.3                                              |

Derating factor (ground): 1 (Soil thermal resistivity: 1km/W, Depth 0.8m, Flat formation - touching)

Derating factor (air): 1 (Flat formation - touching)

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