

# Hydrocarbon resistant XLPE CAM SWA Armoured 1kV Power Cable



## Eland Product Group:

### APPLICATION

These cables are used for electricity supply in low voltage installation system. They are suitable for installation in indoors and outdoors, in cable ducts, under ground, in power and switching stations, local energy distributions, industrial plants and where aliphatic and aromatic hydrocarbon may be present or where require chemical and mechanical protections.

### CHARACTERISTICS

#### Voltage Rating (Uo/U)

0.6/1kV

#### Temperature Rating

-20°C to +60°C

### CONSTRUCTION

#### Conductor

Class 1 Solid (RE) or Class 2 Stranded (RM) Copper

#### Insulation

XLPE (Cross-Linked Polyethylene)

#### Inner Sheath

PVC (Polyvinyl Chloride)

#### Screen

Aluminum/Polyethylene tape

#### Drain Wire

Tinned copper

#### Inner Sheath

HDPE (High Density Polyethylene)

#### Intermediate Sheath

Polyamide

#### Armour

Galvanized steel wires (Single core: aluminum wires)

#### Outer Sheath

Special PVC (Polyvinyl Chloride)

#### Core Identification

1 Core (choice): ● Red ● Black

2 Cores: ● Red ● Black

3 Cores: ● Red ● Yellow ● Blue

4 Cores: ● Red ● Yellow ● Blue ● Black

5 Cores: ● Red ● Yellow ● Blue ● Black ● Green

7 Cores and Above: ● Black with ○ White Numbers

#### Sheath Colour

● Black

### STANDARDS

IEC 60502-1, IEC 60332-3-22

Chemical resistance: Aliphatic and aromatic hydrocarbons

### 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](https://www.elandcables.com/company/about-us/esg-sustainability)



### REGULATORY COMPLIANCE

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<sup>®</sup>.





Click here for more information:

[elandcables.com](http://elandcables.com) | [Hydrocarbon resistant XLPE CAM SWA 1kV Cable](#)

ELAND  
CABLES

## DIMENSIONS

| ELAND PART NUMBER | NO OF CORES | CONDUCTOR         |      | NOMINAL DIAMETER OVER INSULATION mm2 | NOMINAL DIAMETER OVER INTERMEDIATE SHEATH mm2 | NOMINAL DIAMETER OVER ARMOUR mm2 | NOMINAL MIN O.D mm2 | NOMINAL MAX O.D mm2 | NOMINAL WEIGHT kg/km |
|-------------------|-------------|-------------------|------|--------------------------------------|-----------------------------------------------|----------------------------------|---------------------|---------------------|----------------------|
|                   |             | CROSS-SECTION mm2 | TYPE |                                      |                                               |                                  |                     |                     |                      |
| OG0501025BK       | 1           | 25                | RM   | 7.9                                  | 11.5                                          | 15.3                             | 18.3                | 20.2                | 619                  |
| OG0501035BK       | 1           | 35                | RM   | 8.9                                  | 12.5                                          | 16.3                             | 19.3                | 21.3                | 732                  |
| OG0501050BK       | 1           | 50                | RM   | 10.2                                 | 13.8                                          | 17.6                             | 20.6                | 22.7                | 891                  |
| OG0501070BK       | 1           | 70                | RM   | 12.0                                 | 15.6                                          | 19.4                             | 22.3                | 24.6                | 1129                 |
| OG0501095BK       | 1           | 95                | RM   | 13.55                                | 17.1                                          | 20.9                             | 23.8                | 26.2                | 1394                 |
| OG0501120BK       | 1           | 120               | RM   | 15.26                                | 18.8                                          | 22.6                             | 25.4                | 28.0                | 1665                 |
| OG0501150BK       | 1           | 150               | RM   | 16.97                                | 20.5                                          | 24.3                             | 27.1                | 29.8                | 1963                 |
| OG0501185BK       | 1           | 185               | RM   | 19.05                                | 22.6                                          | 26.4                             | 29.3                | 32.3                | 2383                 |
| OG0501240BK       | 1           | 240               | RM   | 21.6                                 | 25.2                                          | 29.0                             | 31.8                | 35.1                | 2975                 |
| OG0501300BK       | 1           | 300               | RM   | 24.2                                 | 27.7                                          | 31.5                             | 34.4                | 38.0                | 3613                 |
| OG0501400BK       | 1           | 400               | RM   | 27.7                                 | 31.2                                          | 35.0                             | 38.0                | 41.9                | 4505                 |

| ELAND PART NUMBER | NO OF CORES | CONDUCTOR         |      | NOMINAL DIAMETER OVER INSULATION mm2 | NOMINAL DIAMETER OVER INNER SHEATH mm2 | NOMINAL DIAMETER OVER INTERMEDIATE SHEATH mm2 | NOMINAL DIAMETER OVER ARMOUR mm2 | NOMINAL MIN O.D mm2 | NOMINAL MAX O.D mm2 | NOMINAL WEIGHT kg/km |
|-------------------|-------------|-------------------|------|--------------------------------------|----------------------------------------|-----------------------------------------------|----------------------------------|---------------------|---------------------|----------------------|
|                   |             | CROSS-SECTION mm2 | TYPE |                                      |                                        |                                               |                                  |                     |                     |                      |
| OG05020015BKRE    | 2           | 1.5               | RE   | 2.79                                 | 8.0                                    | 11.5                                          | 13.3                             | 16.4                | 18.1                | 511                  |
| OG05020015BK      | 2           | 1.5               | RM   | 2.9                                  | 8.2                                    | 11.8                                          | 13.6                             | 16.7                | 18.4                | 525                  |
| OG05020025BKRE    | 2           | 2.5               | RE   | 3.15                                 | 8.7                                    | 12.3                                          | 14.8                             | 17.9                | 19.7                | 661                  |
| OG05020025BK      | 2           | 2.5               | RM   | 3.31                                 | 9.0                                    | 12.6                                          | 15.1                             | 18.1                | 20.0                | 682                  |
| OG0502004BKRE     | 2           | 4                 | RE   | 3.61                                 | 9.6                                    | 13.2                                          | 15.7                             | 18.7                | 20.6                | 740                  |
| OG0502004BK       | 2           | 4                 | RM   | 3.83                                 | 10.1                                   | 13.7                                          | 16.2                             | 19.2                | 21.2                | 766                  |
| OG0502006BK       | 2           | 6                 | RM   | 4.35                                 | 11.1                                   | 14.7                                          | 17.2                             | 20.1                | 22.3                | 868                  |
| OG0502010BK       | 2           | 10                | RM   | 5.25                                 | 12.9                                   | 16.5                                          | 19.0                             | 22.0                | 24.2                | 1041                 |
| OG0502016BK       | 2           | 16                | RM   | 6.25                                 | 14.9                                   | 18.5                                          | 21.7                             | 24.5                | 27.1                | 1410                 |
| OG0502025BK       | 2           | 25                | RM   | 7.9                                  | 18.2                                   | 21.7                                          | 24.9                             | 27.6                | 30.5                | 1833                 |
| OG0502035BK       | 2           | 35                | RM   | 8.9                                  | 20.2                                   | 23.7                                          | 26.9                             | 29.8                | 32.8                | 2176                 |
| OG0502050BK       | 2           | 50                | RM   | 10.2                                 | 22.8                                   | 26.3                                          | 29.5                             | 32.5                | 35.8                | 2628                 |
| OG0502070BK       | 2           | 70                | RM   | 12.0                                 | 26.4                                   | 29.9                                          | 33.9                             | 37.0                | 40.8                | 3569                 |
| OG0502095BK       | 2           | 95                | RM   | 13.55                                | 29.5                                   | 33.0                                          | 37.0                             | 40.2                | 44.3                | 4354                 |
| OG0502120BK       | 2           | 120               | RM   | 15.26                                | 32.9                                   | 36.4                                          | 40.4                             | 43.7                | 48.2                | 5165                 |
| OG05030015BKRE    | 3           | 1.5               | RE   | 2.79                                 | 8.4                                    | 12.0                                          | 14.5                             | 17.6                | 19.4                | 636                  |
| OG05030015BK      | 3           | 1.5               | RM   | 2.9                                  | 8.7                                    | 12.2                                          | 14.7                             | 17.8                | 19.6                | 654                  |
| OG05030025BKRE    | 3           | 2.5               | RE   | 3.15                                 | 9.2                                    | 12.8                                          | 15.3                             | 18.3                | 20.2                | 703                  |
| OG05030025BK      | 3           | 2.5               | RM   | 3.31                                 | 9.6                                    | 13.1                                          | 15.7                             | 18.7                | 20.6                | 729                  |
| OG0503004BKRE     | 3           | 4                 | RE   | 3.61                                 | 10.2                                   | 13.8                                          | 16.3                             | 19.3                | 21.3                | 805                  |
| OG0503004BK       | 3           | 4                 | RM   | 3.83                                 | 10.6                                   | 14.2                                          | 16.7                             | 19.7                | 21.7                | 830                  |
| OG0503006BK       | 3           | 6                 | RM   | 4.35                                 | 11.8                                   | 15.4                                          | 17.9                             | 20.9                | 23.0                | 951                  |
| OG0503010BK       | 3           | 10                | RM   | 5.25                                 | 13.7                                   | 17.3                                          | 20.5                             | 23.4                | 25.8                | 1291                 |
| OG0503016BK       | 3           | 16                | RM   | 6.25                                 | 15.8                                   | 19.4                                          | 22.6                             | 25.4                | 28.0                | 1590                 |
| OG0503025BK       | 3           | 25                | RM   | 7.9                                  | 19.5                                   | 23.0                                          | 28.4                             | 29.0                | 31.9                | 2097                 |



| ELAND PART NUMBER | NO OF CORES | CONDUCTOR         |      | NOMINAL DIAMETER OVER INSULATION mm2 | NOMINAL DIAMETER OVER INNER SHEATH mm2 | NOMINAL DIAMETER OVER INTERMEDIATE SHEATH mm2 | NOMINAL DIAMETER OVER ARMOUR mm2 | NOMINAL MIN O.D mm2 | NOMINAL MAX O.D mm2 | NOMINAL WEIGHT kg/km |
|-------------------|-------------|-------------------|------|--------------------------------------|----------------------------------------|-----------------------------------------------|----------------------------------|---------------------|---------------------|----------------------|
|                   |             | CROSS-SECTION mm2 | TYPE |                                      |                                        |                                               |                                  |                     |                     |                      |
| OG0503035BK       | 3           | 35                | RM   | 8.9                                  | 21.7                                   | 25.2                                          | 28.4                             | 31.2                | 34.4                | 2533                 |
| OG0503050BK       | 3           | 50                | RM   | 10.2                                 | 24.4                                   | 27.9                                          | 31.9                             | 35.0                | 38.6                | 3347                 |
| OG0503070BK       | 3           | 70                | RM   | 12.0                                 | 28.3                                   | 31.8                                          | 35.8                             | 39.0                | 43.0                | 4255                 |
| OG0503095BK       | 3           | 95                | RM   | 13.55                                | 31.6                                   | 35.1                                          | 39.1                             | 42.4                | 46.8                | 5265                 |
| OG05040015BKRE    | 4           | 1.5               | RE   | 2.79                                 | 9.2                                    | 12.8                                          | 15.3                             | 18.3                | 20.2                | 688                  |
| OG05040015BK      | 4           | 1.5               | RM   | 2.9                                  | 9.4                                    | 13.0                                          | 15.5                             | 18.5                | 20.4                | 712                  |
| OG05040025BKRE    | 4           | 2.5               | RE   | 3.15                                 | 10.0                                   | 13.7                                          | 16.2                             | 19.2                | 21.2                | 770                  |
| OG05040025BK      | 4           | 2.5               | RM   | 3.31                                 | 10.4                                   | 14.1                                          | 16.6                             | 19.6                | 21.6                | 799                  |
| OG0504004BKRE     | 4           | 4                 | RE   | 3.61                                 | 11.1                                   | 14.7                                          | 17.2                             | 20.2                | 22.3                | 888                  |
| OG0504004BK       | 4           | 4                 | RM   | 3.83                                 | 11.7                                   | 15.3                                          | 17.8                             | 20.8                | 22.9                | 917                  |
| OG0504006BK       | 4           | 6                 | RM   | 4.35                                 | 12.9                                   | 16.5                                          | 19.0                             | 21.9                | 24.2                | 1052                 |
| OG0504010BK       | 4           | 10                | RM   | 5.25                                 | 15.0                                   | 18.6                                          | 21.8                             | 24.6                | 27.2                | 1467                 |
| OG0504016BK       | 4           | 16                | RM   | 6.25                                 | 17.5                                   | 21.1                                          | 24.3                             | 27.0                | 29.8                | 1836                 |
| OG0504025BK       | 4           | 25                | RM   | 7.9                                  | 21.6                                   | 25.1                                          | 28.3                             | 31.1                | 34.4                | 2477                 |
| OG0504035BK       | 4           | 35                | RM   | 8.9                                  | 23.9                                   | 27.4                                          | 30.6                             | 33.6                | 37.0                | 3010                 |
| OG0504050BK       | 4           | 50                | RM   | 10.2                                 | 27.0                                   | 30.5                                          | 34.5                             | 37.5                | 41.4                | 3964                 |
| OG0504070BK       | 4           | 70                | RM   | 12.0                                 | 31.4                                   | 34.9                                          | 38.9                             | 42.2                | 46.6                | 5123                 |
| OG05050015BKRE    | 5           | 1.5               | RE   | 2.79                                 | 9.9                                    | 13.5                                          | 16.0                             | 19.0                | 21.0                | 751                  |
| OG05050015BK      | 5           | 1.5               | RM   | 2.9                                  | 10.2                                   | 13.9                                          | 16.4                             | 19.4                | 21.4                | 774                  |
| OG05050025BKRE    | 5           | 2.5               | RE   | 3.15                                 | 10.9                                   | 14.5                                          | 17.0                             | 20.0                | 22.0                | 840                  |
| OG05050025BK      | 5           | 2.5               | RM   | 3.31                                 | 11.3                                   | 14.9                                          | 17.4                             | 20.4                | 22.5                | 870                  |
| OG0505004BKRE     | 5           | 4                 | RE   | 3.61                                 | 12.2                                   | 15.7                                          | 18.2                             | 21.2                | 23.3                | 979                  |
| OG0505004BK       | 5           | 4                 | RM   | 3.83                                 | 12.7                                   | 16.3                                          | 18.8                             | 21.7                | 24.0                | 1019                 |
| OG0505006BK       | 5           | 6                 | RM   | 4.35                                 | 14.1                                   | 17.7                                          | 20.9                             | 23.9                | 26.2                | 1317                 |
| OG0505010BK       | 5           | 10                | RM   | 5.25                                 | 16.5                                   | 20.1                                          | 23.3                             | 26.1                | 28.8                | 1640                 |
| OG0505016BK       | 5           | 16                | RM   | 6.25                                 | 19.2                                   | 22.8                                          | 26.0                             | 28.7                | 31.7                | 2096                 |
| OG0505025BK       | 5           | 25                | RM   | 7.9                                  | 23.7                                   | 27.2                                          | 30.4                             | 33.4                | 36.8                | 2855                 |
| OG0505035BK       | 5           | 35                | RM   | 8.9                                  | 26.4                                   | 29.9                                          | 33.9                             | 37.0                | 40.8                | 3777                 |
| OG0505050BK       | 5           | 50                | RM   | 10.2                                 | 29.9                                   | 33.4                                          | 37.4                             | 40.6                | 44.7                | 4645                 |
| OG05070015BK      | 7           | 1.5               | RM   | 2.9                                  | 10.8                                   | 14.3                                          | 16.8                             | 19.8                | 21.8                | 797                  |
| OG05070025BK      | 7           | 2.5               | RM   | 3.31                                 | 12.1                                   | 15.6                                          | 18.1                             | 21.1                | 23.2                | 919                  |
| OG05100015BK      | 10          | 1.5               | RM   | 2.9                                  | 13.7                                   | 17.2                                          | 20.4                             | 23.3                | 25.7                | 1114                 |
| OG05100025BK      | 10          | 2.5               | RM   | 3.31                                 | 15.3                                   | 18.8                                          | 22.0                             | 24.8                | 27.4                | 1287                 |
| OG05120015BK      | 12          | 1.5               | RM   | 2.9                                  | 14.3                                   | 17.8                                          | 21.0                             | 23.9                | 26.3                | 1179                 |
| OG05120025BK      | 12          | 2.5               | RM   | 3.31                                 | 15.9                                   | 19.4                                          | 22.6                             | 25.4                | 28.0                | 1371                 |
| OG05140015BK      | 14          | 1.5               | RM   | 2.9                                  | 15.0                                   | 18.5                                          | 21.7                             | 24.5                | 27.1                | 1251                 |
| OG05140025BK      | 14          | 2.5               | RM   | 3.31                                 | 16.7                                   | 20.2                                          | 23.4                             | 26.2                | 28.9                | 1475                 |
| OG05190015BK      | 19          | 1.5               | RM   | 2.9                                  | 16.6                                   | 20.1                                          | 23.3                             | 26.1                | 28.8                | 1427                 |
| OG05190025BK      | 19          | 2.5               | RM   | 3.31                                 | 18.7                                   | 22.2                                          | 25.4                             | 28.1                | 31.0                | 1724                 |
| OG05240015BK      | 24          | 1.5               | RM   | 2.9                                  | 19.5                                   | 23.0                                          | 26.2                             | 28.9                | 31.9                | 1678                 |
| OG05240025BK      | 24          | 2.5               | RM   | 3.31                                 | 22.1                                   | 25.6                                          | 28.8                             | 31.6                | 34.9                | 2050                 |
| OG05270015BK      | 27          | 1.5               | RM   | 2.9                                  | 20.0                                   | 23.5                                          | 26.7                             | 29.6                | 32.6                | 1776                 |
| OG05270025BK      | 27          | 2.5               | RM   | 3.31                                 | 22.5                                   | 26.0                                          | 29.2                             | 32.0                | 35.3                | 2154                 |
| OG05300015BK      | 30          | 1.5               | RM   | 2.9                                  | 20.7                                   | 24.2                                          | 27.4                             | 30.3                | 33.4                | 1884                 |
| OG05300025BK      | 30          | 2.5               | RM   | 3.31                                 | 23.4                                   | 26.9                                          | 30.1                             | 33.1                | 36.5                | 2305                 |
| OG05370015BK      | 37          | 1.5               | RM   | 2.9                                  | 22.4                                   | 25.9                                          | 29.1                             | 29.1                | 35.2                | 2099                 |
| OG05370025BK      | 37          | 2.5               | RM   | 3.31                                 | 25.3                                   | 28.8                                          | 32.8                             | 32.8                | 39.6                | 2851                 |