

# Type 245 Flexible Rubber Mining Cable



Eland Product Group: C3G

## APPLICATION

Type 245 cables are mainly used as longwall shearer cables, and also for continuous miners and peripheral longwall cables. The cable has 3 central pilots for earth continuity monitoring and for control circuits.

## CHARACTERISTICS

### Voltage Rating

1.1kV - Type 245.1  
3.3kV - Type 245.3  
6.6kV - Type 245.6

## CONSTRUCTION

### Conductor

Flexible stranded tinned annealed copper

### Conductor Screen

Semi-conductive compound for cables having a voltage rating of 3.3kV and above

### Insulation

EPR (Ethylene Propylene Rubber)

### Insulation Screen

Semi-conductive elastomer

### Cradle Separator

Semiconductive PCP (Polychloroprene)

### Central Extensible Pilot

EPR covered flexible stranded tinned copper

### Overall Core Screen

Semiconductive PCP (Polychloroprene) filling and covering

### Interstitial Earth Conductor

Semi-conductive PCP (Polychloroprene) covered flexible stranded tinned copper

### Reinforcing Braid

Open-weave yarns

### Sheath

Heavy duty PCP (Polychloroprene).  
(CPE/CSP sheath can be offered upon request)

### Sheath Colour

● Black

## STANDARDS

AS/NZS 1802:2003, AS/NZS 1125, AS/NZS 3808, AS/NZS 5000.1

## THE CABLE LAB<sup>®</sup>

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



## REGULATORY COMPLIANCE

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

| ELAND PART NO. | NO. OF CORES | NOMINAL CONDUCTOR AREA mm <sup>2</sup> | STRAND SIZE No/mm | NOMINAL INSULATION THICKNESS mm | CORE SCREEN       |                                | PILOT CONDUCTOR   |                          | THICKNESS OF SHEATH mm | NOMINAL OVERALL DIAMETER mm | NOMINAL WEIGHT kg/100m |
|----------------|--------------|--|-------------------|---------------------------------|-------------------|--------------------------------|-------------------|--------------------------|------------------------|-----------------------------|------------------------|
|                |              |  |                   |                                 | STRAND SIZE No/mm | AREA OF SCREEN mm <sup>2</sup> | STRAND SIZE No/mm | THICKNESS OF COVERING mm |                        |                             |                        |
| Type 245.1     |              |  |                   |                                 |                   |                                |                   |                          |                        |                             |                        |
| C3G0103016BK   | 3            | 16                                     | 133/0.40          | 2.0                             | 69/0.25           | 1.8                            | 28/0.25           | 0.8                      | 4.1                    | 42.6                        | 235                    |
| C3G0103025BK   | 3            | 25                                     | 259/0.36          | 1.6                             | 91/0.25           | 1.8                            | 28/0.25           | 0.8                      | 4.2                    | 43.4                        | 269                    |
| C3G0103035BK   | 3            | 35                                     | 287/0.40          | 1.6                             | 140/0.25          | 1.4                            | 28/0.25           | 0.8                      | 4.4                    | 45.6                        | 315                    |
| C3G0103050BK   | 3            | 50                                     | 703/0.30          | 1.7                             | 120/0.30          | 1.0                            | 28/0.25           | 0.8                      | 4.8                    | 48.4                        | 390                    |
| C3G0103070BK   | 3            | 70                                     | 988/0.30          | 1.8                             | 180/0.30          | 1.0                            | 28/0.25           | 0.8                      | 5.1                    | 53.9                        | 501                    |
| C3G0103095BK   | 3            | 95                                     | 1332/0.30         | 2.0                             | 150/0.30          | 1.0                            | 28/0.25           | 0.8                      | 5.6                    | 60.4                        | 630                    |
| C3G0103120BK   | 3            | 120                                    | 1702/0.30         | 2.1                             | 195/0.30          | 1.2                            | 28/0.25           | 0.8                      | 6.0                    | 65.5                        | 765                    |
| C3G0103150BK   | 3            | 150                                    | 2146/0.30         | 2.3                             | 235/0.30          | 1.2                            | 28/0.25           | 0.8                      | 6.3                    | 70.5                        | 915                    |
| Type 245.3     |              |  |                   |                                 |                   |                                |                   |                          |                        |                             |                        |
| C3G0303025BK   | 3            | 25                                     | 259/0.36          | 3.0                             | 91/0.25           | 1.5                            | 28/0.25           | 0.8                      | 5.2                    | 51.1                        | 338                    |
| C3G0303035BK   | 3            | 35                                     | 287/0.40          | 3.0                             | 140/0.25          | 1.0                            | 28/0.25           | 0.8                      | 5.4                    | 54.5                        | 398                    |
| C3G0303050BK   | 3            | 50                                     | 703/0.30          | 3.0                             | 120/0.30          | 1.0                            | 28/0.25           | 0.8                      | 5.7                    | 56.8                        | 490                    |
| C3G0303070BK   | 3            | 70                                     | 988/0.30          | 3.0                             | 180/0.30          | 1.2                            | 28/0.25           | 0.8                      | 6.0                    | 61.2                        | 592                    |
| C3G0303095BK   | 3            | 95                                     | 1332/0.30         | 3.0                             | 235/0.30          | 1.2                            | 28/0.25           | 0.8                      | 6.4                    | 66.6                        | 739                    |
| C3G0303120BK   | 3            | 120                                    | 1702/0.30         | 3.0                             | 300/0.30          | 1.2                            | 28/0.25           | 0.8                      | 6.7                    | 71.0                        | 870                    |
| C3G0303150BK   | 3            | 150                                    | 2146/0.30         | 3.0                             | 375/0.30          | 1.2                            | 28/0.25           | 0.8                      | 7.0                    | 75.2                        | 1028                   |
| Type 245.6     |              |  |                   |                                 |                   |                                |                   |                          |                        |                             |                        |
| C3G0603050BK   | 3            | 50                                     | 703/0.30          | 5.0                             | 120/0.30          | 1.4                            | 28/0.25           | 0.8                      | 6.7                    | 67.2                        | 635                    |
| C3G0603070BK   | 3            | 70                                     | 988/0.30          | 5.0                             | 180/0.30          | 1.4                            | 28/0.25           | 0.8                      | 7.0                    | 71.7                        | 755                    |
| C3G0603095BK   | 3            | 95                                     | 1332/0.30         | 5.0                             | 235/0.30          | 1.4                            | 28/0.25           | 0.8                      | 7.4                    | 77.1                        | 905                    |
| C3G0603120BK   | 3            | 120                                    | 1702/0.30         | 5.0                             | 300/0.30          | 1.4                            | 28/0.25           | 0.8                      | 7.7                    | 81.3                        | 1050                   |
| C3G0601350BK   | 3            | 150                                    | 2146/0.30         | 5.0                             | 375/0.30          | 1.4                            | 28/0.25           | 0.8                      | 8.0                    | 85.8                        | 1210                   |

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.