

Type 240 Flexible Copper Screened Mining Cable With Three Pilots



Eland Product Group: C3C

APPLICATION

Australian standard cable for use as flexible feeder cable to machinery or longwall supply and other industrial applications within the mining industry.

CHARACTERISTICS

Voltage Rating

Type 240.1 - 1.1kV
 Type 240.3 - 3.3kV
 Type 240.6 - 6.6kV
 Type 240.11 - 11kV

Temperature Rating -

25°C to +90°C

CONSTRUCTION

Conductor

Tinned annealed copper wires

Separator/Screen

1.1kV: Paper separator
 For other nominal voltages semi-conductive thermosetting compound over conductors

Insulation

Ethylene propylene rubber type R-EP-90

Insulation Screen

1.1kV: Synthetic tape
 From 3.3kV: Semi-conductive thermosetting compound

Screen

Tinned copper/polyamide braid

Cable Assembly

Three screened power laid up with right hand direction on cradle separator

Cradle Separator

Semi-conductive thermosetting compound

Sheath

HD-PCP (Heavy Duty Polychloroprene) - extra heavy duty, oil resistance and flame retardant.

Optional open polyamide braid between layer of sheathing

Sheath Colour

● Black

STANDARDS

AS/NZS 1802:2003, AS/NZS 1125:2001,
 Water resistant.
 Flame retardant.
 UV, sunlight, ozone and oil resistant

ISO/IEC 17025 LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.



8578



FS 672069



EMS 672067



OHS 672066

REGULATORY COMPLIANCE

This cable meets the requirements of the RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.



KM E34267



DIMENSIONS

| ELAND PART NO. | NO. CORES | NOMINAL CONDUCTOR AREA mm ² | NUMBER AND NOMINAL DIAMETER OF WIRES n x mm | THICKNESS OF INSULATION mm ² | NOMINAL DIAMETER OVER INSULATION mm | CORE SCREEN SIZE mm | AREA OF SCREEN mm ² | NOMINAL THICKNESS SHEATH mm | NOMINAL DIAMETER mm | NOMINAL WEIGHT kg/100m |
|----------------|-----------|--|--|---|-------------------------------------|---------------------|--------------------------------|-----------------------------|---------------------|------------------------|
| Type 240.1 | | | | | | | | | | |
| C3C01010060BK | 3+3 | 6 | 84x0.3 | 1.5 | 6.5 | 7/0.25 | 7.2 | 3.8 | 30 | 131 |
| C3C0101010BK | 3+3 | 10 | 77x0.4 | 1.5 | 7.7 | 7/0.25 | 8.6 | 3.8 | 32.6 | 159 |
| C3C0101016BK | 3+3 | 16 | 126x0.4 | 1.6 | 9 | 7/0.25 | 9.6 | 4.0 | 35.8 | 202 |
| C3C0101025BK | 3+3 | 25 | 209x0.4 | 1.6 | 10.5 | 7/0.25 | 11.3 | 4.3 | 39.7 | 265 |
| C3C0101035BK | 3+3 | 35 | 285x0.4 | 1.6 | 12.1 | 7/0.25 | 12.4 | 4.6 | 53.6 | 326 |
| C3C0101050BK | 3+3 | 50 | 380x0.4 | 1.7 | 13.8 | 7/0.25 | 14.1 | 5.0 | 48.4 | 404 |
| C3C0101070BK | 3+3 | 70 | 361x0.5 | 1.8 | 16.1 | 7/0.25 | 16.5 | 5.4 | 54.0 | 533 |
| C3C0101095BK | 3+3 | 95 | 475x0.5 | 2 | 17.7 | 7/0.25 | 18.2 | 6.0 | 58.8 | 635 |
| C3C0101120BK | 3+3 | 120 | 608x0.5 | 2.1 | 20 | 7/0.25 | 20.3 | 6.4 | 64.6 | 775 |
| C3C0101150BK | 3+3 | 150 | 740x0.5 | 2.3 | 22.2 | 7/0.25 | 22.3 | 6.9 | 70.3 | 940 |
| C3C0101185BK | 3+3 | 185 | 925x0.5 | 2.5 | 24.7 | 7/0.30 | 30.2 | 7.4 | 77.5 | 1140 |
| C3C0101240BK | 3+3 | 240 | 1221x0.5 | 2.8 | 27.9 | 7/0.30 | 33.6 | 8.2 | 86.1 | 1410 |
| C3C0601016BK | 3+3 | 300 | 1525x0.5 | 3 | 31 | 7/0.40 | 50.1 | 8.8 | 95.2 | 1775 |
| Type 240.3 | | | | | | | | | | |
| C3C0301016BK | 3+3 | 16 | 126x0.4 | 3 | 12.6 | 7/0.25 | 13.4 | 5.3 | 46.7 | 306 |
| C3C0301025BK | 3+3 | 25 | 209x0.4 | 3 | 14.1 | 7/0.25 | 14.8 | 5.6 | 50.6 | 379 |
| C3C0301035BK | 3+3 | 35 | 285x0.4 | 3 | 15.4 | 7/0.25 | 15.1 | 5.9 | 54.0 | 444 |
| C3C0301050BK | 3+3 | 50 | 380x0.4 | 3 | 16.9 | 7/0.25 | 17.5 | 6.3 | 58.1 | 525 |
| C3C0301070BK | 3+3 | 70 | 361x0.5 | 3 | 18.9 | 7/0.25 | 19.6 | 6.6 | 63.0 | 656 |
| C3C0301095BK | 3+3 | 95 | 475x0.5 | 3 | 20.1 | 7/0.25 | 20.6 | 7.1 | 66.7 | 750 |
| C3C0301120BK | 3+3 | 120 | 608x0.5 | 3 | 22.2 | 7/0.30 | 27.2 | 7.4 | 72.6 | 910 |
| C3C0301150BK | 3+3 | 150 | 740x0.5 | 3 | 24.0 | 7/0.40 | 39.6 | 7.8 | 78.6 | 1115 |
| C3C0301185BK | 3+3 | 185 | 925x0.5 | 3 | 26.1 | 7/0.40 | 43.1 | 8.2 | 83.8 | 1280 |
| C3C0301240BK | 3+3 | 240 | 1221x0.5 | 3 | 28.1 | 7/0.40 | 46.6 | 8.8 | 90.8 | 1540 |
| Type 240.6 | | | | | | | | | | |
| C3C0601016BK | 3+3 | 16 | 126x0.4 | 5 | 16.6 | 7/0.25 | 17.2 | 6.4 | 57.9 | 440 |
| C3C0601025BK | 3+3 | 25 | 209x0.4 | 5 | 18.1 | 7/0.25 | 18.9 | 6.7 | 61.7 | 521 |
| C3C0601035BK | 3+3 | 35 | 285x0.4 | 5 | 19.4 | 7/0.25 | 19.9 | 7.0 | 65.2 | 593 |
| C3C0601050BK | 3+3 | 50 | 380x0.4 | 5 | 20.9 | 7/0.25 | 21.6 | 7.3 | 69.0 | 685 |
| C3C0601070BK | 3+3 | 70 | 361x0.5 | 5 | 22.9 | 7/0.25 | 23.4 | 7.7 | 74.3 | 830 |
| C3C0601095BK | 3+3 | 95 | 475x0.5 | 5 | 24.1 | 7/0.30 | 29.7 | 8.1 | 78.3 | 954 |
| C3C0601120BK | 3+3 | 120 | 608x0.5 | 5 | 25.2 | 7/0.30 | 32.2 | 8.5 | 83.5 | 1111 |
| C3C0601150BK | 3+3 | 150 | 740x0.5 | 5 | 28.0 | 7/0.40 | 45.7 | 8.9 | 89.5 | 1335 |
| C3C0601185BK | 3+3 | 185 | 925x0.5 | 5 | 30.1 | 7/0.40 | 49.3 | 9.3 | 95.1 | 1515 |
| C3C0601240BK | 3+3 | 240 | 1221x0.5 | 5 | 32.7 | 7/0.40 | 52.8 | 9.9 | 101.8 | 1788 |
| Type 240.11 | | | | | | | | | | |
| C3C1101025BK | 3+3 | 25 | 209x0.4 | 7.6 | 23.5 | 7/0.25 | 24.1 | 8.1 | 76.0 | 752 |
| C3C1101035BK | 3+3 | 35 | 285x0.4 | 7.6 | 24.8 | 7/0.30 | 30.2 | 8.4 | 80.1 | 860 |
| C3C1101050BK | 3+3 | 50 | 380x0.4 | 7.6 | 26.2 | 7/0.30 | 32.2 | 8.7 | 84.0 | 961 |
| C3C1101070BK | 3+3 | 70 | 361x0.5 | 7.6 | 28.2 | 7/0.30 | 34.6 | 9.1 | 89.1 | 1125 |
| C3C1101095BK | 3+3 | 95 | 475x0.5 | 7.6 | 29.5 | 7/0.40 | 48.4 | 9.6 | 94.1 | 1300 |
| C3C1101120BK | 3+3 | 120 | 608x0.5 | 7.6 | 31.5 | 7/0.40 | 51.0 | 9.9 | 99.9 | 1470 |
| C3C1101150BK | 3+3 | 150 | 740x0.5 | 7.6 | 33.3 | 7/0.40 | 54.5 | 10.3 | 104.0 | 1659 |

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.