

BS 6724 Copper Conductor Multi Core SWA 1.9/3.3kV Cable



Eland Product Group: B9L

APPLICATION

Power and auxiliary control cables for use in power networks, underground, outdoor and indoor applications and for use in cable ducting. For installation where fire, smoke emission and toxic fumes create a potential threat to life and equipment.

CHARACTERISTICS

Voltage Rating U₀/U
1.9/3.3kV

Temperature Rating
Maximum Operating: +90°C
Maximum Short-Circuit: +250°C

Minimum Bending Radius
12 x overall diameter

CONSTRUCTION

Conductor
Class 2 stranded copper

Insulation
XLPE (Cross-Linked Polyethylene)

Filler
HFFR (Halogen free flame retardant)

Armour
SWA (Galvanised Steel Wire Armour)

Outer Sheath
HFFR (Halogen free flame retardant)

Core Identification
● Brown ● Black ● Grey

Sheath Colour
● Black

STANDARDS

BS 6724, IEC/EN 60228, IEC/EN 60502-1

Low Smoke Zero Halogen according to IEC/EN 61034, IEC/EN 60754

Flame retardant according to EN / IEC 60332-1

THE CABLE LAB[®]

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



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 2015/65/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab[®].





DIMENSIONS

| ELAND PART NO. | NO. OF CORES | NOMINAL CROSS SECTIONAL AREA mm ² | NOMINAL DIAMETER OF CONDUCTOR mm | NOMINAL THICKNESS OF INSULATION mm | MINMUM THICKNESS OF OUTER SHEATH mm | NOMINAL OUTER DIAMETER mm | NOMINAL WEIGHT kg/km |
|----------------|--------------|---|-------------------------------------|---------------------------------------|--|------------------------------|-------------------------|
| B9L03010BK | 3 | 10 | 3.85 | 2.0 | 1.24 | 23 | 1545 |
| B9L03016BK | 3 | 16 | 4.70 | 2.0 | 1.24 | 27 | 1680 |
| B9L03025BK | 3 | 25 | 5.85 | 2.0 | 1.24 | 30 | 2100 |
| B9L03035BK | 3 | 35 | 6.90 | 2.0 | 1.32 | 32 | 2530 |

ELECTRICAL CHARACTERISTICS

| NOMINAL CROSS SECTIONAL AREA mm ² | CURRENT CARRYING CAPACITY A | | | MAXIMUM CONDUCTOR DC RESISTANCE AT 20°C Ω/km |
|---|--------------------------------|---|--|---|
| | Clipped direct | In free air or on a perforated cable tray etc, horizontal or vertical at 30°C | Direct in ground or in ducting in ground, in or around buildings at 20°C | |
| | | 1 three or 1 four core cable, three-phase a.c or d.c | 1 three or 1 four core cable, three-phase a.c or d.c | |
| 10 | 73 | 78 | 58 | 1.83 |
| 16 | 94 | 99 | 75 | 1.15 |
| 25 | 124 | 131 | 96 | 0.727 |
| 35 | 154 | 162 | 115 | 0.524 |

Air ambient temperature: 30°C
 Ground ambient temperature: 20°C
 Conductor operating temperature: 90°C

Notes

1. Where a conductor operates at a temperature exceeding 70°C it must be ascertained that the equipment connected to the conductor is suitable for the conductor operating temperature (see Regulation 512.1.2 of the 18th Edition of IEE Wiring Regulations).
2. Where cables in this table are connected to equipment or accessories designed to operate at a temperature not exceeding 70°C, the current ratings given in the equivalent table for 70°C thermoplastic insulated cables (Table 4D4A) must be used (see also Regulation 523.1 of the 18th Edition of IEE Wiring Regulations).

The above table is in accordance with Table 4E4A of the 18th Edition of IEE Wiring Regulations BS7671 and IEC 60364-5-52

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.