

ELAND[®]
CABLES

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, BS EN/IEC 61034, BS EN/IEC 60754

Flame retardant according to EN / IEC 60332-1



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.



REGULATORY COMPLIANCE

This cable meets the requirements of the Low Voltage Directive 2014/35/EU and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.



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

- 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).
- 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.