BS 5467 Copper Conductor Multi Core SWA PVC 1.9/3.3kV Cable

Eland Product Group: B9S

APPLICATION

Multi-core PVC cable with steel wire armour (SWA). This cable is suitable for direct burial free-draining soil conditions for fixed indoor and outdoor installations.

CHARACTERISTICS

Voltage Rating Uo/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)

Separator
Polyester Tape

Filler
PVC (Polyvinyl Chloride)

Armour
SWA (Galvanized Steel Wire Armour)

Outer Sheath
PVC (Polyvinyl Chloride)

Core Identification
● Brown ● Black ● Grey

Sheath Colour
● Black

STANDARDS

BS 5467, IEC 60502-1, EN 60228

Flame retardant to IEC/EN 60332-1
UV Resistant

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 mm²	NOMINAL DIAMETER OF CONDUCTOR mm	NOMINAL THICKNESS OF INSULATION mm	MINMUM THICKNESS OF OUTER SHEATH mm	NOMINAL OUTER DIAMETER mm	NOMINAL WEIGHT kg/km
B9S03010BK	3	10	3.85	2.0	1.24	23	1545
B9S03016BK	3	16	4.70	2.0	1.24	27	1680
B9S03025BK	3	25	5.85	2.0	1.24	30	2100
B9S03035BK	3	35	6.90	2.0	1.32	32	2530

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm²	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	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

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