BS 5467 Copper Conductor Single Core AWA PVC 1.9/3.3kV Cable

Eland Product Group: B9S

APPLICATION

Single core PVC cable with aluminium wire armour (AWA). Power and auxiliary control cables for use in power networks, underground in free-draining soil, outdoor and indoor applications and for use in cable ducting.

CHARACTERISTICS

Voltage Rating Uo/U
1.9/3.3kV

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

Minimum Bending Radius
8 x overall diameter

CONSTRUCTION

Conductor
Class 2 sector shaped stranded copper

Insulation
XLPE (Cross-Linked Polyethylene)

Separator
Polyester Tape

Filler
PVC (Polyvinyl Chloride)

Armour
AWA (Aluminium Wire Armour)

Outer Sheath
PVC (Polyvinyl Chloride)

Core Identification
● Brown

Sheath Colour
● Black

STANDARDS

BS 5467, IEC/EN 60502-1, EN 60228

Flame retardant according to IEC/EN 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.

UKAS ISO/IEC 17025 Accredited Testing Laboratory 8578 | bsi. ISO 9001 Quality Management FS 672069 | ISO 14001 Environmental Management EMS 672067 | ISO 45001 Occupational Health and Safety Management OHS 672066

REGULATORY COMPLIANCE

This cable is compliant with European Regulation EN 50575, the Construction Products Regulation.

CPR COMPLIANT EN 50575

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™.

bsi. RoHS Trusted KITEMARK™ KM 634267 | RoHS | CE

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
B9S01050BK	1	50	8.1	2.0	1.08	19	956
B9S01070BK	1	70	9.7	2.0	1.08	20	1201
B9S01095BK	1	95	11.4	2.0	1.08	22	1499
B9S01120BK	1	120	12.65	2.0	1.16	25	1936
B9S01150BK	1	150	14.15	2.0	1.16	26	2254
B9S01185BK	1	185	15.75	2.0	1.24	28	2650
B9S01240BK	1	240	18.2	2.0	1.24	30	3280
B9S01300BK	1	300	20.5	2.0	1.32	33	3938
B9S01400BK	1	400	23	2.0	1.4	37	5090
B9S01500BK	1	500	26	2.2	1.48	40	6255
B9S01630BK	1	630	29.7	2.4	1.56	45	7809

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm²	CURRENT CARRYING CAPACITY A			MAXIMUMCONDUCTOR DC RESISTANCE AT 20°C Ω/km
	Clipped direct	Direct in ground or in ducting in ground, in or around buildings at **20°C**	In free air or on a perforated cable tray etc, horizontal or vertical at **30°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	
50	187	197	135	0.387
70	238	251	167	0.268
95	289	304	197	0.193
120	335	353	223	0.153
150	386	406	251	0.124
185	441	463	281	0.0991
240	520	546	324	0.0754
300	599	628	365	0.0601
400	-	-	-	0.0471
500	-	-	-	0.0366
630	-	-	-	0.0283

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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