

**ELAND<sup>®</sup>**  
**CABLES**

# 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** U<sub>0</sub>/U  
1.9/3.3kV

### Test Voltage

Between conductors: 1125kV

Between each conductor and armour: 650kV

### 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

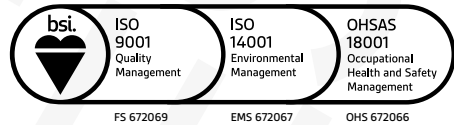
BS 5467, IEC 60502-1

Flame retardant according to EN / IEC 60332-1



## UKAS LABORATORY TESTED

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



FS 672069

EMS 672067

OHS 672066

## 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<sup>®</sup> as meeting the requirements of the BSI RoHS Trusted Kitemark<sup>™</sup>.



## DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	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 mm <sup>2</sup>	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 two-cable, single-phase a.c or d.c	1 three or 1 four core cable, three-phase a.c or d.c	1 two-cable, single-phase a.c or d.c	1 three or 1 four core cable, three-phase a.c or d.c	1 two-cable, single-phase a.c or d.c	1 three or 1 four core cable, three-phase a.c or d.c	
1.5	27	23	29	25	25	21	-
2.5	36	31	39	33	33	28	-
4	49	42	52	44	43	36	-
6	62	53	66	56	53	44	-
10	85	73	90	78	71	58	1.83
16	110	94	115	99	91	75	1.15
25	146	124	152	131	116	96	0.727
35	180	154	188	162	139	115	0.524
50	219	187	228	197	164	135	0.387
70	279	238	291	251	203	167	0.268
95	338	289	354	304	239	197	0.193
120	392	335	410	353	271	223	0.153
150	451	386	472	406	306	251	0.124
185	515	441	539	463	343	281	0.0991
240	607	520	636	546	395	324	0.0754
300	698	599	732	628	446	365	0.0601

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.

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.