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

Eland Product Group: B9L

APPLICATION

The BS 6724 1.9/3.3kV sector shaped cable is suitable for direct burial free-draining soil conditions for fixed indoor and outdoor installations. Low level of smoke emission and corrosive gasses in case of fire.

CHARACTERISTICS

Voltage Rating Uo/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
8 x overall diameter

CONSTRUCTION

Conductor
Class 2 sectoral shaped stranded copper

Insulation
XLPE (Cross-Linked Polyethylene)

Filler
HFFR (Halogen free flame retardant)

Armour
SWA (Galvanised round steel wire armour)

Outer Sheath
HFFR (Halogen free flame retardant)

Core Identification
● Brown ● Black ● Grey

Sheath Colour
● Black

STANDARDS

BS 6724, EN 60228, IEC 60502-1

Flame retardant to EN 60332-1
Low Smoke Halogen Free to IEC/EN 61034-1/2, IEC/EN 60754-1/2
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 THICKNESS OF INSULATION mm	MINMUM THICKNESS OF OUTER SHEATH mm	NOMINAL OUTER DIAMETER mm	NOMINAL WEIGHT kg/km
B9L0335SBK	3	35	2.0	1.32	28	2124
B9L0350SBK	3	50	2.0	1.40	33	2930
B9L0370SBK	3	70	2.0	1.48	36	3739
B9L0395SBK	3	95	2.0	1.56	40	4734
B9L03120SBK	3	120	2.0	1.64	44	6047
B9L03150SBK	3	150	2.0	1.72	48	7196
B9L03185SBK	3	185	2.0	1.80	51	8565
B9L03240SBK	3	240	2.0	1.88	57	10645
B9L03300SBK	3	300	2.0	1.96	62	12709

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm²	CURRENT CARRYING CAPACITY A						MAXIMUM CONDUCTOR 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 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	-
16	110	94	115	99	91	75	-
25	146	124	152	131	116	96	-
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
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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