BS 7211 624-B Twin and Earth LSZH Cable

Eland Product Group: A9B

APPLICATION

Installation in walls, on boards and in channels or embedded in plaster. For installations where fire, smoke emissions and toxic fumes create a potential risk to life and equipment.

CHARACTERISTICS

Voltage Rating Uo/U
300/500V

Temperature Rating
+5°C to +70°C

Minimum Bending Radius
3 x overall diameter

CONSTRUCTION

Conductor
1mm² to 2.5mm²: Class 1 solid conductor
4mm² to 10mm²: Class 2 stranded conductor

Circuit Protection Conductor (Earth)
1mm² to 2.5mm²: Class 1 solid copper conductor
4mm² to 16mm²: Class 2 stranded copper conductor

Insulation
XLPE (Cross-Linked Polyethylene)

Sheath
LSZH (Low Smoke Zero Halogen)

Insulation Colour
2 core: Blue Brown
3 core: Brown Black Grey

Sheath Colour
White

CABLE THIRD-PARTY ACCREDITATION

We supply BASEC approved products
Cables are tested and certified by BASEC, The British Approvals Service for Cables

STANDARDS

BS7211, EN 60228

Flame Retardant according to BS EN/IEC 60332-1-2
Low Smoke Halogen Free according to IEC/EN 60754-1/2, IEC/EN 61034-1/2

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	CONDUCTOR CLASS	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL THICKNESS OF INSULATION mm	NOMINAL THICKNESS OF SHEATH mm	NOMINAL OVERALL DIMENSIONS mm
A9B02010WH	2	1	1	0.6	0.9	4.8 x 8.4
A9B02015WH	2	1	1.5	0.7	0.9	4.8 x 9.2
A9B02025WH	2	1	2.5	0.8	1	5.7 x 10.5
A9B02040WH	2	2	4	0.8	1	6.1 x 11.7
A9B02060WH	2	2	6	0.8	1.1	6.9 x 13.6
A9B0210WH	2	2	10	1	1.2	8.1 x 16.2
A9B03010WH	3	1	1	0.6	0.9	4.7 x 11
A9B03015WH	3	1	1.5	0.7	0.9	4.9 x 11.8
A9B03025WH	3	1	2.5	0.8	1	5.6 x 13.3
A9B03040WH	3	2	4	0.8	1	6.2 x 15.7

CONDUCTORS

Class 1 Copper Conductor for Single and Multi-Core Cables

NOMINAL CROSS SECTIONAL AREA mm²	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
	Plain Wires
1	18.1
1.5	12.1
2.5	7.41
4	4.61
6	3.08
10	1.83

ELECTRICAL CHARACTERISTICS

Current Carrying Capacity

NOMINAL CROSS SECTIONAL AREA mm²	REFERENCE METHOD A* (IN CONDUIT IN WALL) Amps	REFERENCE METHOD C* (CLIPPED DIRECT) Amps	VOLTAGE DROP mv/A/m
1	11.5	16	44
1.5	14.5	20	29
2.5	20	27	18
4	26	37	11
6	32	47	7.3
10	44	64	4.4
16	57	85	2.8

The above table is in accordance with 4D5 of the 18th Edition of IEE Wiring Regulations BS7671 and IEC 60364-5-52

Note

A* For full installation method refer to Table 4A2 Installation Method 2 but for flat twin and earth cable of the 18th Edition of IEE Wiring Regulations.

C* For full installation method refer to Table 4A2 Installation Method 20 but for flat twin and earth cable of the 18th Edition of IEE Wiring Regulations.

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