

BS 8436 LSZH Cable



Eland Product Group: A9F

APPLICATION

Screened cable for use in walls, partitions and building voids where there is a risk of damage or penetration from nails, screw fixings etc.

CHARACTERISTICS

Voltage Rating U_o/U
300/500V

Temperature Rating
Fixed: -25°C to +90°C

Minimum Bending Radius
Fixed: 6 x overall diameter

CONSTRUCTION

Conductor

Class 2 stranded copper conductor
Class 1 solid copper conductor available on request

Insulation

XLPE (Cross-Linked Polyethylene)

Circuit Protective Conductor

Tinned copper

Screen

Tubed aluminium

Sheath

LSZH (Low Smoke Zero Halogen)

Insulation Colour

2 core + earth: ● Brown ● Blue
3 core + earth: ● Brown ● Black ● Grey
4 core + earth: ● Brown ● Black ● Grey ● Blue

Outer Sheath Colour

○ White
Other colours available on request

CABLE THIRD-PARTY ACCREDITATION



Cables are tested and accredited by BASEC, The British Approvals Service for Cables

STANDARDS

BS 8436,

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

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.



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 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™.





DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A6FG02010	2	1	7.1	71
A6FG02015	2	1.5	8	88
A6FG02025	2	2.5	9	127
A6FG02040	2	4	10.4	181
A6FG03010	3	1	7.5	85
A6FG03015	3	1.5	8.5	112
A6FG03025	3	2.5	9.4	154
A6FG03040	3	4	11.2	230
A6FG04010	4	1	8.3	107
A6FG04015	4	1.5	9.4	139
A6FG04025	4	2.5	10.5	191
A6FG04040	4	4	12.4	285

CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
1	18.1
1.5	12.1
2.5	7.41
4	4.61

ELECTRICAL CHARACTERISTICS

Current Carrying Capacity and Voltage Drop

NOMINAL CROSS SECTIONAL AREA mm ²	CURRENT RATING CLIPPED DIRECT) Amps	
	Single Phase AC or DC	Three Phase AC
1	15	13.5
1.5	19.5	17.5
2.5	27	24
4	36	32

VOLTAGE DROP

NOMINAL CROSS SECTIONAL AREA mm ²	DC mV/A/m	SINGLE PHASE AC mV/A/m	THREE PHASE AC mV/A/m
1	44	44	38
1.5	29	29	25
2.5	18	18	15
4	11	11	9.5

Notes

1. The above current ratings are taken from Table 4D2 (maximum conductor operating temperature of 70°C) as required by the 18th Edition of IEE Wiring Regulations BS7671 and IEC 60364-5-52. However, these cables are capable of operating at 90°C in which case the higher current ratings of Table 4E2 can be used providing it has been ascertained that the equipment connected to the conductor is suitable for the higher conductor operating temperature.

2. Protective devices used for these cables shall be either Type B to BS EN 60898 or Type B RCBO to BS EN 61009-1. The protective devices shall have a maximum let through energy (I₂t) of 42000A²s when used with 1.0mm² or 1.5mm² cable and 60000 A²s when used with 2.5mm² or 4.0mm² cable.

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.