

Protec BS 8436 LSZH Cable



Eland Product Group: **A6F**

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.

CONSTRUCTION

Conductor

Class 2 stranded copper conductor

Class 1 solid copper conductor available on request

Insulation

XLPE (Cross-Linked Polyethylene)

Screen

Tubed aluminium

Sheath

LSZH (Low Smoke Zero Halogen)

CABLE STANDARDS

BS 8436, BS 7671, BS EN/IEC 60754, BS EN/IEC 61034, BS EN/IEC 60332



The electrical and dimensional properties of this product are measured by the Technical and Quality Assurance department at the Eland Cables laboratory. Cable performance in respect of conductor resistance, construction quality (workmanship), dimensional consistency, and other parameters are verified to published standards and approved product drawings. Conformance to RoHS (Restriction of the use of Hazardous Substances) is determined and confirmed.

CHARACTERISTICS

Voltage Rating (U_o/U)

300/500V

Temperature Rating

Fixed: -25°C to +90°C

Minimum Bending Radius

Fixed: 6 x overall diameter

Core Identification

2 core + earth: ● Brown ● Blue

3 core + earth: ● Brown ● Black ● Grey

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

Sheath Colour

○ White

Note

Other colours available on request

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

CONDUCTOR

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM DC 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

NOMINAL CROSS SECTIONAL AREA mm ²	CURRENT RATING (CLIPPED DIRECT)	
	Single Phase AC or DC Amps	Three Phase AC Amps
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

- The above current ratings are taken from Table 4D2 (maximum conductor operating temperature of 70°C) as required by the 17th Edition of the IET Wiring Regulations. However Protec 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.
- 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 (I^2t) of 42000A²s when used with 1.0mm² or 1.5mm² cable and 60000 A²s when used with 2.5mm² or 4.0mm² cable.