

Firetec BS 7629-1 LPCB BASEC Approved Standard Cable



Eland Product Group: **A6F**

APPLICATION

Firetec Standard cable is suitable for fire alarm systems, emergency lighting and BS 5839-8 voice alarm systems. It meets the standard grade of BS 5839-1 26.2d and Category 1 Control as defined by BS 8519.

CONSTRUCTION

Conductor

1.5mm² - 2.5mm²: Class 1 solid conductor according to BS EN 60228 (previously BS 6360)

4mm²: Class 2 stranded conductor according to BS EN 60228 (previously BS 6360)

Insulation

LSZH (Low Smoke Zero Halogen)

Circuit Protective Conductor

Full size, tinned annealed copper

Screen

AL/PET (Aluminium/Polyester Tape)

Sheath

LSZH (Low Smoke Zero Halogen)

CABLE STANDARDS

BS 7629-1, BS 5266, BS 5839-1 26.2d,
BS 5839-8, BS 8519 Cat 1 Control, BS 5266
BS EN 50200 PH30, PH60, PH120
BS 6387 C W and Z
BS EN 50267, IEC 60754
BS EN 50268, IEC 61034
BS EN 50265, 50266, IEC 60332
LUL 1-085



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

Operating Temperature

-10°C to +90°C

Minimum Bending Radius

6 x overall diameter

Core Identification

2 core: ● Brown ● Blue

3 core: ● Brown ● Black ● Grey

4 core: ● Brown ● Black ● Grey ● Blue

Sheath Colour

● Red ○ White

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
A6FF02015*	2	1.5	7.7	87
A6FF02025*	2	2.5	9.1	129
A6FF02040*	2	4	10.8	192
A6FF03015*	3	1.5	8.2	110
A6FF03025*	3	2.5	9.7	163
A6FF03040*	3	4	11.5	244
A6FF04015*	4	1.5	9.2	139
A6FF04025*	4	2.5	10.9	210
A6FF04040*	4	4	12.7	306

Eland Part No. shown above designate the sheath colour (). For each colour substitute * for a colour code as listed below. e.g. A6FF02015RD = 1.5mm² Red

Colour Codes

COLOUR	Red	White
CODE	RD	WH

CONDUCTORS

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

ELECTRICAL CHARACTERISTICS

Current Carrying Capacity

NOMINAL CROSS SECTIONAL AREA mm ²	CURRENT RATING	
	2 Core Single-Phase AC or DC Amps	3 and 4 Core Three-Phase AC Amps
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
1.5	29	29	25
2.5	18	18	15
4	11	11	9.5

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.