

ELAND[®]
CABLES

Firetec BS 7629-1 LPCB BASEC Approved Enhanced Cable



Eland Product Group: **A6F**

APPLICATION

Firetec Enhanced cable is suitable for fire alarm systems, BS 5839-8 voice alarm systems, emergency lighting circuits & Category 1, 2 and 3 control circuits as defined in BS 8519. The mica glass tape is applied directly over the conductor to ensure the best possible enhanced fire performance. It meets enhanced grade as defined by BS 5839-1 26.2e.

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)

Separator

Mica/glass fire barrier tape

Insulation

LSZH (Low Smoke Zero Halogen)

Circuit Protective Conductor

Full size, tinned copper

Screen

AL/PET (Aluminium/Polyester Tape)

Sheath

LSZH (Low Smoke Zero Halogen)

CABLE STANDARDS

BS 7629-1, BS 5266, BS 8434-2, BS 5839-1 26.2e

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
A6FFE02015*	2	1.5	9.1	103
A6FFE02025*	2	2.5	9.7	140
A6FFE02040*	2	4	11.6	209
A6FFE03015*	3	1.5	9.6	135
A6FFE03025*	3	2.5	10.7	186
A6FFE03040*	3	4	12.4	267
A6FFE04015*	4	1.5	10.7	165
A6FFE04025*	4	2.5	11.9	234
A6FFE04040*	4	4	13.7	335

Eland Part No. shown above designate the sheath colour (). For each colour substitute * for a colour code as listed below. e.g. A6FFE02015RD = 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.