



Standard Fire Resistant Cable BS7629-1



Eland Product Group: A6F

APPLICATION

Standard fire resistant cables for use primarily in fire detection, fire alarm, voice alarm, and emergency lighting circuits. These cables are designed to continue to operate for a period of time in a fire situation. 'Standard' fire resistance is recommended for general use.

CHARACTERISTICS

Voltage Rating Uo/U
300/500V

Temperature Rating
-40°C to +90°C

Minimum Bending Radius
6 x overall diameter

CONSTRUCTION

Conductor

1.5mm² - 2.5mm²: Class 1 solid Copper
4mm² and over: Class 2 stranded Copper

Insulation

High performance fire resistant silicone rubber

Overall Screen

Al/PET (Aluminium/Polyester Tape)

Circuit Protective Conductor

Tinned copper

Outer Sheath

LSZH (Low Smoke Zero Halogen)

Core Identification

2 cores: ● Blue ● Brown + Bare Earth
3 cores: ● Brown ● Black ● Grey + Bare Earth
4 cores: ● Blue ● Brown ● Black ● Grey

Sheath Colour

● Red ○ White

CABLE THIRD-PARTY ACCREDITATION

We supply BASEC approved products

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

We supply LPCB certified products

Certified by the Loss Prevention Certification Board (LPCB) for security and fire protection and listed in Red Book Live

STANDARDS

BS 7629-1, BS 5839-1, BS EN 50200-PH30-PH60-PH90-PH120, BS 6387, BS 5266-1, BS 8519, BS EN 60228

Low Smoke Zero Halogen 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



SCIENCE
BASED
TARGETS

BUSINESS
AMBIITION FOR 1.5°C



REGULATORY COMPLIANCE

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

Class 1 Solid Plain Conductor

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	EARTH WIRE CONSTRUCTION n° /mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A6F02015*	2	1.5	1/1.38	8	95
A6F02025*	2	2.5	1/1.75	9.4	130
A6F02040*	2	4	7/0.85	11.5	200
A6F03015*	3	1.5	1/1.38	8.5	115
A6F03025*	3	2.5	1/1.75	10	170
A6F03040*	3	4	7/0.85	12.2	260
A6F04015*	4	1.5	1/1.38	9.4	140
A6F04025*	4	2.5	1/1.75	11	210
A6F04040*	4	4	7/0.85	13.5	330

* Designates the sheath colour. For each Eland Cables part number replace with the colour code e.g. A6F02040RD – 4mm² Red

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm ²	CONDUCTOR RESISTANCE AT 20°C Ω/km	INSULATION RESISTANCE AT 20°C MΩXkm	NOMINAL CAPACITANCE pF/m	
			Core / Core	Core / Screen
1	18.1	300	100	170
1.5	12.1	300	110	190
2.5	7.41	300	130	220
4	4.61	300	160	270

CURRENT CARRYING CAPACITY

Clipped Direct

NOMINAL CROSS SECTIONAL AREA mm ²	CURRENT RATING Amps	
	2 Core	3 and 4 Core
1	19	17
1.5	24	22
2.5	33	30
4	45	40

In Conduit or in Cable Tray

NOMINAL CROSS SECTIONAL AREA mm ²	CURRENT RATING Amps	
	2 Core	3 and 4 Core
1	17	15
1.5	22	19.5
2.5	30	26
4	40	35



VOLTAGE DROP

Clipped Direct

NOMINAL CROSS SECTIONAL AREA mm ²	VOLTAGE DROP mV/A/m	
	2 Core	3 and 4 Core
1	45	39
1.5	30	26
2.5	18	15
4	11	10

In Conduit or in Cable Tray

NOMINAL CROSS SECTIONAL AREA mm ²	VOLTAGE DROP mV/A/m	
	2 Core	3 and 4 Core
1	45	39
1.5	30	26
2.5	18	15
4	11	10

DE-RATING FACTORS

AMBIENT TEMPERATURE	25°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C	65°C
DE-RATING FACTOR	1.04	1.00	0.95	0.90	0.85	0.80	0.74	0.67	0.60

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.