

FireForce Fire Performance Cable PH30

Eland Product Group **A5K**

Application

For fixed installation typically in fire alarm and emergency lighting circuits where circuit integrity must be maintained. For installation where fire, smoke emission and toxic fumes create a potential threat to life and equipment.

Standards

BS 7629-1
BS 6387 C W Z
BS 5839-1 clause 26.2
BS EN 50200 PH30
BS 8434-1

Conductor

Class 1 solid plain copper conductors

Insulation

Special compound silicone and rubber mix

Separator

Unspecified material

Screen

CAM (Collective Aluminium Mylar)

Drain Wire

Tinner Copper

Sheath

LSZH (Low Smoke Zero Halogen)

Sheath Colour

Red or White

Core Identification

2 Cores: Brown, Blue
4 Cores: Blue, Brown, Black, Grey

Voltage

300/500V

Temperature Rating

-30°C to +70°C

Minimum Bending Radius

6 x overall diameter



Dimensions

Eland Part Number	No. of Cores x Nominal Cross Sectional Area # x mm ²	Nominal Thickness of Insulation mm	Nominal Thickness of Sheath mm	Nominal Overall Diameter mm	Nominal Weight kg/Km
A5K02015*	2 x 1.50	0.7	1.4	8.07	101.39
A5K02025*	2 x 2.50	0.8	1.4	9.09	141.86
A5K04015*	4 x 1.50	0.7	1.4	9.08	150.51
A5K04025*	4 x 2.50	0.8	1.5	11.05	222.00

Eland Part Numbers shown above designate the sheath colour (). For each colour either substitute * WH (white) or RD (red)

Conductors

Class 1 solid conductors for Single Core and Multi-Core cables

1	2
Nominal Cross Sectional Area mm ²	Maximum Resistance of Conductor at 20°C
	Circular, Annealed Copper Conductors
	Plain ohms/Km
1.50	12.1000
2.50	7.4100

Table in accordance with BS EN 60228:2005 (previously BS6360)

Electrical Characteristics

Current Carrying Capacity (amperes)

Conductor Cross Sectional Area mm ²	Reference Method A (enclosed in conduit in thermally insulating wall etc.)		Reference Method B (enclosed in conduit on a wall or in trunking etc.)		Reference Method C (clipped direct)		Reference Method E (in free air or on a perforated cable tray etc, horizontal or vertical)	
	1 Two Core Cable* Single Phase AC or DC Amps	1 Three Core Cable* or 1 Four Core Cable Three Phase AC Amps	1 Two Core Cable* Single Phase AC or DC Amps	1 Three Core Cable* or 1 Four Core Cable Three Phase AC Amps	1 Two Core Cable* Single Phase AC or DC Amps	1 Three Core Cable* or 1 Four Core Cable Three Phase AC Amps	1 Two Core Cable* Single Phase AC or DC Amps	1 Three Core Cable* or 1 Four Core Cable Three Phase AC Amps
1	2	3	4	5	6	7	8	9
1.5	14.0	13.0	16.5	15.0	19.5	17.5	22	18.5
2.5	18.5	17.5	23.0	20.0	27.0	24.0	30	25.0

Ambient temperature: 30°C

Conductor operating temperature: 70°C

* With or without a protective conductor

The above table is in accordance with Table 4D2A of the 17th Edition of IEE Wiring Regulations.

The Current Carrying Capacities in this appendix are based upon the following reference ambient temperatures:

For non-sheathed and sheathed cables in air, irrespective of the Installation Method: 30°C

For buried cables, either directly in the soil or in ducts in the ground: 20°C

The current ratings stated are based on conservative assumptions, and therefore, in some instances, may be adjusted according to the ambient installation and operating conditions.

Voltage Drop (per ampere per metre)

Conductor Cross Sectional Area mm ²	Two Core Cable DC mV/A/m	Two Core Cable Single Phase AC mV/A/m	Three or Four Core Cable Three Phase AC mV/A/m
1	2	3	4
1.5	29.00	29.0	25.0
2.5	18.00	18.0	15.0

Conductor operating temperature: 70°C

The above table is in accordance with Table 4D2B of the 17th Edition of IEE Wiring Regulations.