

Single Core PH120 Fire Resistant Cable



Eland Product Group: A6F

APPLICATION

For use in essential safety circuits requiring integrity for up to 3hrs where the cable is protected by metal conduit. May be used for emergency lighting, fire alarm systems not requiring a twisted cable or other essential services.

Use in screwed steel conduit to achieve fire rating

CHARACTERISTICS

Voltage Rating

Up to 10mm²: 450/750 V
16mm² and above: 0.6/1kV

Temperature Rating

-25°C to +90°C

Minimum Bending Radius

Up to 8mm diameter: 4 x overall diameter
Over 8mm diameter 6 x overall diameter

CONSTRUCTION

Conductor

Class 2 stranded annealed copper conductor

Separator

Mica/glass fire barrier tape

Insulation

Cross linked mineral filled polymer

Insulation Colour

● Brown ● Black ● Grey ● Blue ● Red ● Orange ● Yellow
● Green/Yellow

CABLE THIRD-PARTY ACCREDITATION

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 6387 Cat C (950±40°C for 180 mins), BS 6387 Cat W (650±40°C for 30 mins), BS 6387 Cat Z (950±40°C for 15 mins), EN 50200 PH120

Low Smoke Halogen Free according to IEC/BS EN 61034-2, IEC/BS EN 60754
Fire retardant according to IEC/BS EN 60331-21,

ISO/IEC 17025 LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.



REGULATORY COMPLIANCE

This cable meets the requirements the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.





DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A6F010015**	1	1.5	3.5	26
A6F010025**	1	2.5	4.1	38
A6F010040**	1	4	4.6	54
A6F010060**	1	6	5.2	75
A6F01010**	1	10	6.6	120
A6F01016**	1	16	7.7	180
A6F01025**	1	25	9.0	270
A6F01035**	1	35	10.0	360
A6F01050**	1	50	11.7	490
A6F01070**	1	70	13.2	680
A6F01095**	1	95	15.3	940
A6F01120**	1	120	16.8	1160
A6F01150**	1	150	18.7	1440
A6F01185**	1	185	20.8	1800
A6F01240**	1	240	23.5	2350
A6F01300**	1	300	27.3	3000
A6F01400**	1	400	32.5	3970
A6F01500**	1	500	36.0	4980
A6F01630**	1	630	40.0	6340

** Designates the sheath colour. For each Eland Cables part number replace with the colour code as listed below. e.g. A6Y020075WH = 0.75mm² White

COLOUR CODES

COLOUR	Black	Blue	Grey	Red	Green/ Yellow	Orange	Yellow	Brown
CODE	BK	BL	GR	RD	GY	OR	YW	BR

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C ohms/km	SHORT CIRCUIT RATING (1 SEC) A	CURRENT RATING DC OR SINGLE PHASE AC A	CURRENT RATING THREE PHASE AC A	VOLT DROP DC mV/A/m	VOLT DROP SINGLE PHASE AC mV/A/m	VOLT DROP THREE PHASE AC mV/A/m
1.5	12.1	215	23	20	31	31	27
2.5	7.41	360	31	28	19	19	16
4	4.61	570	42	37	12	12	10
6	3.08	860	54	48	7.9	7.9	6.8
10	1.83	1425	75	66	4.7	4.7	4
16	1.15	2275	100	88	2.9	2.9	2.5
25	0.727	3375	133	117	1.85	1.9	1.65
35	0.524	5000	164	144	1.35	1.35	1.15
50	0.387	7150	198	175	0.99	1.05	0.9
70	0.268	10000	253	222	0.68	0.75	0.65
95	0.193	13575	306	269	0.49	0.58	0.5
120	0.153	17150	354	312	0.39	0.48	0.42
150	0.124	21450	393	342	0.32	0.43	0.37
185	0.0991	26450	449	384	0.25	0.37	0.32
240	0.0754	34325	528	450	0.19	0.33	0.29
300	0.0601	42925	603	514	0.155	0.31	0.27
400	0.0470	57225	683	584	0.120	0.29	0.25
500	0.0366	71525	783	666	0.093	0.28	0.24
630	0.0283	90125	900	764	0.072	0.27	0.23

TEMPERATURE RATINGS FACTOR

Ambient Temperature°C	25	30	35	40	45	50	55	60
Rating factor	1.02	1.00	0.96	0.91	0.87	0.82	0.76	0.71

RATING FACTORS FOR GROUPINGS

Ambient Temperature°C	2	3	4	5	6	7	8	9
Rating factor	0.80	0.70	0.65	0.60	0.57	0.54	0.52	0.50