

Firetec LPCB Approved Single Core Cable



Eland Product Group: **A6F**

APPLICATION

Firetec single core fire resistant cable is designed to be installed in metal conduit. For use in alarm and emergency lighting circuits for new installations or upgrading existing conduit systems to fire performance standards. Elastomeric insulation gives high mechanical strength, excellent flexibility and resistance to abrasion.

CONSTRUCTION

Conductor

Class 2 stranded annealed copper conductor according to BS EN 60228 (previously BS 6360)

Separator

Mica/glass fire barrier tape

Insulation

LSZH (Low Smoke Zero Halogen)

CABLE STANDARDS

Generally to BS EN 50525-3-41, BS 6387 C, W, Z, BS EN/IEC 60331-21, BS EN/IEC 60228, BS EN 50200 PH120, BS 8434-2, BS EN/IEC 60754, BS EN/IEC 61034, BS EN/IEC 60332



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)
600/1000V

Operating Temperature
-10°C to +90°C

Minimum Bending Radius
6 x overall diameter

Insulation Colour

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

DIMENSIONS

ELAND PART NO.	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A6FP01010*	1	3.2	20
A6FP01015*	1.5	3.5	26
A6FP01025*	2.5	4.1	38
A6FP01040*	4	4.6	54
A6FP0160*	6	5.1	75
A6FP0110*	10	6.7	124
A6FP0116*	16	7.6	183
A6FP0125*	25	9.4	285
A6FP0135*	35	11	382
A6FP0150*	50	12.4	513
A6FP0170*	70	14.2	717
A6FP0195*	95	16.5	992
A6FP01120*	120	18.1	1228
A6FP01150*	150	20.3	1520
A6FP01185*	185	21.1	1880
A6FP01240*	240	26.2	2492
A6FP01300*	300	28.6	3089
A6FP01400*	400	32	4000
A6FP01500*	500	37.6	5170
A6FP01600*	630	41.9	6523

Eland Part No. shown above designate the sheath colour (). For each colour substitute * for a colour code as listed below. e.g. A6FP01010BK = 1mm² Black

Colour Codes

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

CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
1	18.1
1.5	12.1
2.5	7.41
4	4.61
6	3.08
10	1.83
16	1.15
25	0.727
35	0.542
50	0.387
70	0.268
95	0.193
120	0.153
150	0.124
185	0.0991
240	0.0754
300	0.0601
400	0.0470
500	0.0366
630	0.0283

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm ²	CURRENT CARRYING CAPACITY IN CONDUIT	
	Single Phase AC or DC Amps	Three Phase AC Amps
1	17	15
1.5	22	19
2.5	30	26
4	40	35
6	51	45
10	71	63
16	95	85
25	126	111
35	156	138
50	189	168
70	240	214
95	290	259
120	336	299
150	375	328
185	426	370
240	500	433
300	573	493
400	683	584
500	785	666
630	900	764

Voltage Rating

NOMINAL CROSS SECTIONAL AREA mm ²	DC mV/A/m	SINGLE PHASE AC mV/A/m	THREE PHASE AC mV/A/m
1	46	46	40
1.5	31	31	27
2.5	19	19	16
4	12	12	10
6	7.9	7.9	6.8
10	4.7	4.7	4
16	2.9	2.9	2.5
25	1.85	1.9	1.65
35	1.35	1.35	1.15
50	0.99	1.05	0.90
70	0.68	0.75	0.65
95	0.49	0.58	0.50
120	0.39	0.48	0.42
150	0.32	0.43	0.37
185	0.25	0.37	0.32
240	0.190	0.33	0.29
300	0.155	0.39	0.27
400	0.120	0.29	0.25
500	0.095	0.28	0.24
630	0.072	0.27	0.23