

Firetec BS 7846 BASEC Approved Power Cable



Eland Product Group: A6F

APPLICATION

Firetec Power is a fire resistant armoured cable suitable for use in fixed installations for power circuits, fire alarm systems and emergency lighting systems. It is robust, flexible and suitable for use inside and outside buildings, meeting the enhanced grade of BS 5839-1 26.2e

CHARACTERISTICS

Voltage Rating Uo/U
0.6/1kV

Temperature Rating
-10°C to +90°C

Minimum Bending Radius
Up to 25mm²: 6 x overall diameter
Above 25mm²: 8 x overall diameter

CONSTRUCTION

Conductor
Class 2 stranded copper conductor

Separator
Mica/glass fire barrier tape

Insulation
XLPE (Cross-Linked Polyethylene)

Bedding
LSZH (Low Smoke Zero Halogen)

Armour
SWA (Steel Wire Armour)

Outer Sheath
LSZH (Low Smoke Zero Halogen)

Core Identification
2 cores: ● Brown ● Blue
3 cores: ● Brown ● Black ● Grey
4 cores: ● Blue ● Brown ● Black ● Grey
5 core: ● Green/Yellow ● Blue ● Brown ● Black ● Grey
(5 core also available with ○ White numbered cores)

Sheath Colour
● Black

Note
Cables above 4 core are not LUL approved

CABLE THIRD-PARTY ACCREDITATION



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



London Underground Limited (LUL) certified and listed on the Approved Products Register as meeting the requirements for installation within their network

STANDARDS

BS 7846, BS 5266-1, BS EN 50200-PH30, PH60, PH90, PH120, BS 8519, LUL 1-085, BS 8491, BS 8434-2, BS 5839-1, BS 6387, BS EN 60228, BS EN/IEC 61034-2, BS EN/IEC 60754-1/2

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 of the Low Voltage Directive 2014/35/EU and 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	INSULATION RADIAL THICKNESS mm	GALVANISED STEEL ARMOUR WIRE DIAMETER mm	OUTER SHEATH RADIAL THICKNESS mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A6FP02015	2	1.5	0.6	0.9	1.4	11	240
A6FP02025	2	2.5	0.7	0.9	1.4	12	300
A6FP02040	2	4	0.7	0.9	1.4	13	360
A6FP02060	2	6	0.7	0.9	1.4	14	440
A6FP0210	2	10	0.7	0.9	1.5	16	580
A6FP0216	2	16	0.7	0.9	1.5	19	860
A6FP0225	2	25	0.9	1.25	1.6	22	1050
A6FP0235	2	35	0.9	1.6	1.7	26	1450
A6FP0250	2	50	1	1.6	1.8	25	1700
A6FP0270	2	70	1.1	1.6	1.9	28	2250
A6FP0295	2	95	1.1	2	2	32	3050
A6FP02120	2	120	1.2	2	2.1	35	3650
A6FP02150	2	150	1.4	2	2.2	39	4350
A6FP02185	2	185	1.6	2.5	2.4	44	5650
A6FP02240	2	240	1.7	2.5	2.5	47	6950
A6FP02300	2	300	1.8	2.5	2.6	52	8350
A6FP02400	2	400	2	2.5	2.8	58	11030
A6FP03015	3	1.5	0.6	0.9	1.3	11	260
A6FP03025	3	2.5	0.7	0.9	1.4	12	320
A6FP03040	3	4	0.7	0.9	1.4	13	400
A6FP03060	3	6	0.7	0.9	1.4	14	490
A6FP0310	3	10	0.7	1.25	1.5	17	760
A6FP0316	3	16	0.7	1.25	1.6	19	1020
A6FP0325	3	25	0.9	1.6	1.7	25	1600
A6FP0335	3	35	0.9	1.6	1.8	27	1950
A6FP0350	3	50	1	1.6	1.8	28	2250
A6FP0370	3	70	1.1	1.6	1.9	31	2000
A6FP0395	3	95	1.1	2	2.1	36	4100
A6FP03120	3	120	1.2	2	2.2	39	4950
A6FP03150	3	150	1.4	2.5	2.3	44	6350
A6FP03185	3	185	1.6	2.5	2.4	49	7600
A6FP03240	3	240	1.7	2.5	2.6	54	9550
A6FP03300	3	300	1.8	2.5	2.7	58	11550
A6FP03400	3	400	2	2.5	2.9	65	14400
A6FP04015	4	1.5	0.6	0.9	1.3	13.3	367
A6FP04025	4	2.5	0.7	0.9	1.4	14.7	454
A6FP04040	4	4	0.7	0.9	1.4	16	556
A6FP04060	4	6	0.7	1.25	1.5	18.2	783
A6FP0410	4	10	0.7	1.25	1.5	20	1029
A6FP0416	4	16	0.7	1.25	1.6	22.5	1367
A6FP0425	4	25	0.9	1.6	1.7	29.9	2240
A6FP0435	4	35	0.9	1.6	1.8	33.5	2705
A6FP0450	4	50	1	1.6	1.9	37.1	3375
A6FP0470	4	70	1.1	2	2.1	39.1	4560
A6FP0495	4	95	1.1	2	2.2	43	5805
A6FP04120	4	120	1.2	2.5	2.3	48.3	7430
A6FP04150	4	150	1.4	2.5	2.4	52.4	8820



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ELAND
CABLES

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	INSULATION RADIAL THICKNESS mm	GALVANISED STEEL ARMOUR WIRE DIAMETER mm	OUTER SHEATH RADIAL THICKNESS mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A6FP04185	4	185	1.6	2.5	2.6	56.6	10600
A6FP04240	4	240	1.7	2.5	2.7	64.3	13380
A6FP04300	4	300	1.8	2.5	2.9	70.7	16255
A6FP04400	4	400	2	3.15	3.2	80.3	21145
A6FP05015	5	1.5	0.6	0.9	1.4	13.1	370
A6FP05025	5	2.5	0.7	0.9	1.4	14.6	470
A6FP05040	5	4	0.7	0.9	1.5	17	680
A6FP05060	5	6	0.7	1.25	1.5	18.5	810
A6FP0510	5	10	0.7	1.25	1.6	20.7	1090
A6FP0516	5	16	0.7	1.6	1.7	24.3	1640
A6FP0525	5	25	0.9	1.6	1.8	29	2250
A6FP0535	5	35	0.9	1.6	1.9	32	2850
A6FP0550	5	50	1	2	2	37	3860
A6FP0570	5	70	1.1	2	2.2	43	5200
A6FP07015	7	1.5	0.6	0.9	1.4	14	405
A6FP07025	7	2.5	0.7	0.9	1.4	16	520
A6FP07040	7	4	0.7	1.25	1.5	18	750
A6FP12015	12	1.5	0.6	1.25	1.5	18	675
A6FP12025	12	2.5	0.7	1.25	1.6	18	697
A6FP12040	12	4	0.7	1.6	1.6	24	1300
A6FP19015	19	1.5	0.6	1.25	1.6	21	890
A6FP19025	19	2.5	0.7	1.6	1.7	25	1350
A6FP19040	19	4	0.7	1.6	1.7	27.5	1750
A6FP27015	27	1.5	0.6	1.6	1.7	25	1300
A6FP27025	27	2.5	0.7	1.6	1.8	29	1700
A6FP27040	27	4	0.7	1.6	1.9	32.5	2350
A6FP37015	37	1.5	0.6	1.6	1.7	27.5	1650
A6FP37025	37	2.5	0.7	1.6	1.8	32	2300
A6FP37040	37	4	0.7	1.6	1.9	-	-
A6FP48015	48	1.5	0.6	1.6	1.8	31	1950
A6FP48025	48	2.5	0.7	2	2.0	37	3000
A6FP48040	48	4	0.7	2	2.1	-	-



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
6	3.08
10	1.83
16	1.15
25	0.727
35	0.524
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	0.047

CURRENT CARRYING CAPACITY

NOMINAL CROSS SECTIONAL AREA mm ²	2 CORE Amps			3, 4 AND 5 CORE Amps			7, 12, 19, 27, 37 AND 48 CORE Amps					
	Single-Phase			Three-Phase			Single-Phase			Three-Phase		
	Laid Direct	In Ducts	In Air	Laid Direct	In Ducts	In Air	Laid Direct	In Ducts	In Air	Laid Direct	In Ducts	In Air
1.5	38	31	31	32	26	26	38	31	31	32	26	26
2.5	49	41	41	42	34	35	49	41	41	42	34	35
4	65	53	55	55	45	47	65	53	55	55	45	47
6	81	67	70	69	56	59	-	-	-	-	-	-
10	109	89	95	92	75	82	-	-	-	-	-	-
16	141	115	126	119	96	107	-	-	-	-	-	-
25	183	148	164	152	124	140	-	-	-	-	-	-
35	219	178	202	182	149	172	-	-	-	-	-	-
50	259	211	244	217	177	209	-	-	-	-	-	-
70	317	260	306	266	218	263	-	-	-	-	-	-
95	381	313	378	319	263	324	-	-	-	-	-	-
120	433	357	437	363	300	376	-	-	-	-	-	-
150	485	401	499	406	338	430	-	-	-	-	-	-
185	547	455	576	458	382	495	-	-	-	-	-	-
240	632	527	680	529	442	584	-	-	-	-	-	-
300	708	592	775	592	496	672	-	-	-	-	-	-
400	799	669	892	667	570	766	-	-	-	-	-	-



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	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	0.98	1	0.87
70	0.67	0.69	0.6
95	0.49	0.52	0.45
120	0.39	0.42	0.37
150	0.31	0.35	0.3
185	0.25	0.29	0.26
240	0.195	0.24	0.21
300	0.155	0.21	0.185
400	0.12	0.19	0.165

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.