ELAND® CABLES

Bare Mineral 750V Cable

Eland Product Group: A6N

APPLICATION

A 750V heavy duty mineral insulated cable, designed to give the ultimate Fire Performance. Suitable for Oil, Gas and Petroleum industries, airports, emergency lighting systems and fire alarm systems for power and control circuits providing circuit integrity to 950°C.

CHARACTERISTICS

Voltage Rating
750V

Temperature Rating
-10°C to +250°C

Minimum Bending Radius
6 x overall diameter

CONSTRUCTION

Conductor
Class 1 Solid plain copper conductor

Insulation
Magnesium Oxide

Outer Sheath
Plain copper

STANDARDS

BE EN 60702 Part 1, BS 5266, BS 8519, BS 8434-2, BS 6387, BS 8491, BS 5839-1

bsi.

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.

UKAS ISO/IEC 17025 Accredited Testing Laboratory 8578 | bsi. ISO 9001 Quality Management FS 672069 | ISO 14001 Environmental Management EMS 672067 | OHSAS 18001 Occupational Health and Safety Management OHS 672066

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™.

bsi. RoHS Trusted KITEMARK™ KM 634267 | RoHS | CE

DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A6N701006PC	1	6	6.4	173
A6N701010PC	1	10	7.3	233
A6N701016PC	1	16	8.3	321
A6N701025PC	1	25	9.6	456
A6N701035PC	1	35	10.7	600
A6N701050PC	1	50	12.1	782
A6N701070PC	1	70	13.7	1087
A6N701095PC	1	95	15.4	1450
A6N701120PC	1	120	16.8	1790
A6N701150PC	1	150	18.4	2130
A6N701185PC	1	185	20.4	2425
A6N701240PC	1	240	23.3	3146
A6N7020015PC	2	1.5	7.9	224
A6N7020025PC	2	2.5	8.7	275
A6N702004PC	2	4	9.8	355
A6N702006PC	2	6	10.9	433
A6N702010PC	2	10	12.7	637
A6N702016PC	2	16	14.7	888
A6N702025PC	2	25	17.1	1175
A6N7030015PC	3	1.5	8.3	253
A6N7030025PC	3	2.5	9.3	324
A6N703004PC	3	4	10.4	416
A6N703006PC	3	6	11.5	530
A6N703010PC	3	10	13.6	783
A6N703016PC	3	16	15.6	1000
A6N703025PC	3	25	18.2	1442
A6N704PP15PC	4	1.5	9.1	303
A6N7040025PC	4	2.5	10.1	358
A6N704004PC	4	4	11.4	517
A6N704006PC	4	6	12.7	658
A6N704010PC	4	10	14.8	980
A6N704016PC	4	16	17.3	1300
A6N704025PC	4	25	20.1	1800
A6N7070015PC	7	1.5	10.8	431
A6N7070025PC	7	2.5	12.1	561
A6N7120025PC	12	2.5	15.6	875
A6N7190015PC	19	1.5	16.6	989

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CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm²	MAXIMUM 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	0.101
240	0.0775

CURRENT CARRYING CAPACITY

NO. OF CORES	NOMINAL CROSS ECTIONAL AREA mm²	SINGLE-PHASE AC OR DC Amps	THREE-PHASE AC Amps
1	6	51	47
1	10	69	63
1	16	92	83
1	25	120	108
1	35	147	132
1	50	182	163
1	70	222	199
1	95	266	238
1	120	306	273
1	150	349	311
1	185	396	353
1	240	463	411
2	1.5	23	-
2	2.5	31	-
2	4	41	-
2	6	51	-
2	10	69	-
2	16	92	-
2	25	120	-
3	1.5	-	19
3	2.5	-	25
3	4	-	33
3	6	-	43
3	10	-	59
3	16	-	77
3	25	-	101

CURRENT CARRYING CAPACITY

NO. OF CORES	NOMINAL CROSS ECTIONAL AREA mm^2	SINGLE-PHASE AC OR DC Amps	THREE-PHASE AC Amps
4	1.5	-	19
4	2.5	-	25
4	4	-	33
4	6	-	42
4	10	-	58
4	16	-	77
4	25	-	99
7	1.5	13	-
7	2.5	18	-
12	2.5	14	-
19	1.5	9	-

VOLTAGE DROP

NO. OF CORES	NOMINAL CROSS ECTIONAL AREA mm^2	SINGLE-PHASE AC mV/A/M	THREE-PHASE AC mV/A/M
1	6	7	6
1	10	4.2	3.6
1	16	2.6	2.3
1	25	1.65	1.45
1	35	1.2	1.05
1	50	0.91	0.79
1	70	0.64	0.55
1	95	0.49	0.41
1	120	0.41	0.33
1	150	0.34	0.29
1	185	0.29	0.25
1	240	0.25	0.21
2	1.5	28	-
2	2.5	17	-
2	4	10	-
2	6	7	-
2	10	4.2	-
2	16	2.6	-
2	25	1.65	-
3	1.5	-	24
3	2.5	-	14
3	4	-	9.1
3	6	-	6
3	10	-	3.6
3	16	-	2.3
3	25	-	1.45

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VOLTAGE DROP

NO. OF CORES	NOMINAL CROSS ECTIONAL AREA mm^2	SINGLE-PHASE AC mV/A/M	THREE-PHASE AC mV/A/M
4	1.5	-	24
4	2.5	-	14
4	4	-	9.1
4	6	-	6
4	10	-	3.6
4	16	-	2.3
4	25	-	1.45
7	1.5	28	-
7	2.5	17	-
12	2.5	17	-
19	1.5	28	-