

AXMK 1kV Cable



Eland Product Group: B2U

APPLICATION

The AXMK 1kV is a power distribution cable suitable for indoor power stations, industrial installations and switchgears, as well as in local mains. For fixed installation underground, in interior premises, cable ducts, in the open air, in water- if no risk of any mechanical damage is to be expected.

CHARACTERISTICS

Voltage Rating U₀/U
0.6/1kV

Test Voltage
4kV/50Hz

Temperature Rating

Minimum Laying temperature: -15°C
Operating temperature: -30°C to +90°C
Conductor temperature: +90°C

Short Circuit Temperature
250°C

Minimum Bending Radius
10 x overall diameter

CONSTRUCTION

Conductor

RE: Class 1 round solid aluminium
RM: Class 2 round stranded aluminium
SM: Class 2 sector shaped stranded aluminium

Insulation

XLPE (Cross-Linked Polyethylene)

Tape

Plastic tape

Outer Sheath

PVC (Polyvinyl Chloride)

Core Identification

3 core: ● Green/Yellow ● Blue ● Brown
4 core: ● Green/Yellow ● Brown ● Black ● Grey
5 core: ● Green/Yellow ● Blue ● Brown ● Black ● Grey
7 core and above: ● Black with ○ White numbers

Sheath Colour

● Black

STANDARDS

EN 60332-1-2 . HD 603.SD, SFS 4879, HD 308 S2

ISO/IEC 17025 LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab[®], a UKAS accredited ISO 17025 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 is compliant with European Regulation EN 50575, the Construction Products Regulation.



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	CONDUCTOR SHAPE mm	NOMINAL THICKNESS OF INSULATION mm	NOMINAL OVERALL DIAMETER mm	ALUMINIUM WEIGHT kg/km	NOMINAL WEIGHT kg/km
B2U01016BK	1	16	RE	0.70	9.5	46	122
B2U01025BK	1	25	RE	0.90	11.9	73	175
B2U01035BK	1	35	RM	0.90	13.0	102	206
B2U01050BK	1	50	RM	1.00	14.9	145	267
B2U01070BK	1	70	RM	1.10	17.0	203	358
B2U01095BK	1	95	RM	1.10	18.9	276	451
B2U01120BK	1	120	RM	1.20	20.7	348	546
B2U01150BK	1	150	RM	1.40	22.7	435	655
B2U01185BK	1	185	RM	1.60	25.1	537	800
B2U01240BK	1	240	RM	1.70	27.6	696	987
B2U01300BK	1	300	RM	1.80	31.9	870	1324
B2U01400BK	1	400	RM	2.00	34.9	1160	1640
B2U01500BK	1	500	RM	2.20	39.3	1450	2030
B2U01630BK	1	630	RM	2.40	44.1	1827	2400
B2U01800BK	1	800	RM	2.60	49.0	2320	2974
B2U011000BK	1	1000	RM	2.80	54.0	2900	3315
B2U04016BK	4	16	RE	0.70	18.3	185	596
B2U04025BK	4	25	SM	0.90	21.1	290	509
B2U04035BK	4	35	SM	0.90	23.4	406	653
B2U04050BK	4	50	SM	1.00	26.4	580	832
B2U04070BK	4	70	SM	1.10	30.4	812	1118
B2U04095BK	4	95	SM	1.10	34.1	1102	1465
B2U04120BK	4	120	SM	1.20	38.1	1392	1837
B2U04150BK	4	150	SM	1.40	42.1	1740	2250
B2U04185BK	4	185	SM	1.60	46.6	2146	2807
B2U04240BK	4	240	SM	1.70	52.2	2784	3603
B2U04300BK	4	300	SM	1.80	55.9	3480	4223
B2U05010BK	5	10	RE	0.70	17.8	145	422
B2U05016BK	5	16	RE	0.70	20.0	232	544
B2U05025BK	5	25	SM	0.90	22.9	363	606
B2U05035BK	5	35	SM	0.90	25.7	507.8	807
B2U05050BK	5	50	SM	1.00	30.1	725	1032
B2U05070BK	5	70	SM	1.10	35.1	1015	1404
B2U05095BK	5	95	SM	1.10	38.1	1380	1800
B2U05120BK	5	120	SM	1.20	40.3	1740	2320
B2U05150BK	5	150	SM	1.40	47.4	2175	2900
B2U05185BK	5	185	SM	1.60	52.7	2682.5	3352.5
B2U05240BK	5	240	SM	1.70	59.4	3480	4350



ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm ²	CURRENT CARRYING CAPACITY A		MAXIMUM CONDUCTOR DC RESISTANCE AT 20°C ohm/km
	70°C	90°C	
10	-	-	3.080
16	-	-	1.910
25	-	-	1.200
35	111	134	0.868
50	136	165	0.641
70	176	214	0.443
95	215	263	0.320
120	251	308	0.253
150	290	357	0.206
185	334	411	0.164
240	397	490	0.125
300	460	569	0.100
400	558	689	0.0778
500	674	800	0.0605
630	754	935	0.0469
800	830	1050	0.0367
1000	940	1190	0.0291

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.