

U-1000 AR2V 0.6/1kV Cable



Eland Product Group: A4UA

APPLICATION

These cables are suitable for all types of low voltage industrial-type connection, in urban grids and building installations. These cables can be used in cases of high operating temperature and when high resistance to solar radiation and atmospheric agents is required. Good resistance to low temperature and chemical agents. They can be used without additional mechanical protection in the open air, fixed to walls or in raceways and inside walkways.

CHARACTERISTICS

Voltage Rating U₀/U
0.6/1kV

Test Voltage
4kV

Temperature Rating
Operating: -25°C to +90°C

Minimum Bending Radius
Single core: 15 x overall diameter
Multi core: 12 x overall diameter

CONSTRUCTION

Conductor
RE: Class 1 Solid Aluminium
RM: Class 2 Stranded Aluminium
SM: Class 2 Stranded Sectoral Shaped Aluminium
SE: Class 1 Solid Sectoral Shaped Aluminium

Insulation
XLPE (Cross-Linked Polyethylene)

Filler
Extruded elastomere or plastomere compound or plastic tape

Sheath
PVC Compound (Polyvinyl Chloride)

Core Identification
2 core: ● Blue ● Brown
3 core: ● Blue ● Brown ● Green/Yellow
4 core: ● Grey ● Brown ● Black ● Green/Yellow
5 core: ● Blue ● Grey ● Brown ● Black ● Green/Yellow

Sheath Colour
● Black

STANDARDS

NF C32-321

Flame Retardant according to IEC 60332-1-2

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	CONDUCTOR TYPE	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A4UA01016RM	1	RM	16	9.5	122
A4UA01025RM	1	RM	25	11.9	175
A4UA01035RM	1	RM	35	13	206
A4UA01050RM	1	RM	50	14.9	267
A4UA01070RM	1	RM	70	17	358
A4UA01095RM	1	RM	95	18.9	451
A4UA01120RM	1	RM	120	20.7	546
A4UA01150RM	1	RM	150	22.7	655
A4UA01185RM	1	RM	185	25.1	800
A4UA01240RM	1	RM	240	27.6	987
A4UA01300RM	1	RM	300	31.9	1324
A4UA01400RM	1	RM	400	34.9	1640
A4UA01500RM	1	RM	500	39.3	2030
A4UA01630RM	1	RM	630	44.1	2400
A4UA01800RM	1	RM	800	46.5	2505
A4UA011000RM	1	RM	1000	52	3115
A4UA03070SM	3	SM/SM	70/35	28.8	935
A4UA03070SM	3	SM/SM	95/50	32.2	1120
A4UA03120SM	3	SM/SM	120/70	34.6	1430
A4UA03150SM	3	SM/SM	150/70	38.5	1950
A4UA03185SM	3	SM/SM	185/95	42.4	2345
A4UA03240SM	3	SM/SM	240/120	47.2	2980
A4UA04016RE	4	RE/RM	16	22.1	596
A4UA04025RE	4	RE/RM	25	26.2	851
A4UA04035RE	4	RE/RM	35	28.9	1055
A4UA04035SM	4	SM	35	25.9	690
A4UA04050SE	4	SE/SM	50	28.4	832
A4UA04070SE	4	SE/SM	70	32.4	1147
A4UA04095SE	4	SE/SM	95	35.6	1460
A4UA04120SE	4	SE/SM	120	40.6	1861
A4UA04150SE	4	SE/SM	150	44.8	2318
A4UA04185SE	4	SE/SM	185	49.2	2866
A4UA04240SE	4	SE/SM	240	54.9	3616
A4UA04400SE	4	SE/SM	300	58.8	4500
A4UA05016RM	5	RM	16	23.4	625
A4UA05025RM	5	RM	25	28.2	950
A4UA05035RM	5	RM	35	31	1195
A4UA05050RM	5	RM	50	36.8	1540
A4UA05070RM	5	RM	70	42.8	2240
A4UA05095RM	5	RM	95	48.5	3015
A4UA05120RM	5	RM	120	53.6	3580



ELAND PART NO.	NO. OF CORES	CONDUCTOR TYPE	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A4UA04185RM	4	RM	185	51.7	3873
A4UA04240RM	4	RM	240	58.6	4982
A4UA05010RE	5	RE	10	19	445
A4UA05016RE	5	RE	16	22	602
A4UA05016RM	5	RM	16	22	602
A4UA05025RE	5	RE	25	27	925
A4UA05025RM	5	RM	25	27	925

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM CONDUCTOR RESISTANCE AT 20°C ohm / km	CURRENT CARRYING CAPACITY A	
		In Air	In Ground
16	1.91	83	91
25	1.2	106	114
35	0.868	130	136
50	0.641	161	162
70	0.443	204	199
95	0.32	252	238
120	0.253	295	272
150	0.206	339	305
185	0.164	395	347
240	0.125	472	404
300	0.1	547	457
400	0.0778	643	525
500	0.0605	754	601
630	0.0469	882	687
800	0.0367	1019	776
1000	0.0291	1157	865

Current rating for multicore cable installed in open air, ambient temperature= 30°C

Current rating for multicore cable, directly buried in ground, soil temperature= 20°C, depth of burial = 0.7m

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.