

U-1000 ARV FV 0.6/1kV Cable



Eland Product Group: A9UA

APPLICATION

Distribution power cable for static application, mostly in ground, but also in water, within facilities, in cable canals and in concrete. This cable can be used in electric power plants, transformer stations, industrial plants, metropolitan networks and other electric plants. Applied in conditions requiring protection against heavier mechanical damages, but where cables are not exposed to heavier tensile strain.

CHARACTERISTICS

Voltage Rating U_o/U
0.6/1kV

Test Voltage
4kV

Temperature Rating
Operating: -10°C to +60°C

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

CONSTRUCTION

Conductor
Class 2 Aluminium

Insulation
XLPE Compound (Cross-Linked Polyethylene)

Bedding
Extruded elastomere or plastomere compound or plastic tape

Armour
Two Galvanised Steel Tapes

Sheath
PVC Compound (Polyvinyl Chloride)

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

Sheath Colour
● Black

STANDARDS

NF C 32-322, EN 60228

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	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A4UA03010	3	10	18	505
A4UA03016	3	16	19.9	637
A4UA03025	3	25	23.2	859
A4UA03035	3	35	25.6	1039
A4UA03050	3	50	30.2	1556
A4UA03070	3	70	34.5	1960
A4UA03095	3	95	38.3	2428
A4UA03120	3	120	42	2951
A4UA03150	3	150	46.3	3567
A4UA03185	3	185	50.6	4224
A4UA03240	3	240	56.7	5165
A4UA03300	3	300	62.3	6264
A4UA04010	4	10	19.3	566
A4UA04016	4	16	21.5	721
A4UA04025	4	25	25.1	981
A4UA04035	4	35	27.8	1196
A4UA04050	4	50	32.8	1769
A4UA04070	4	70	37.5	2286
A4UA04095	4	95	41.7	2884
A4UA04120	4	120	45.8	3417
A4UA04150	4	150	51.4	4204
A4UA04185	4	185	56.2	4972
A4UA04240	4	240	62.6	6187
A4UA05010	5	10	20.7	628
A4UA05016	5	16	23.1	807
A4UA05025	5	25	27.2	1106
A4UA05035	5	35	30.2	1357
A4UA05050	5	50	35.6	1986
A4UA05070	5	70	40.7	2583
A4UA05095	5	95	45.4	3268
A4UA050120	5	120	50	3891
A4UA050150	5	150	56	4800

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM CONDUCTOR RESISTANCE ohm / km	CURRENT CARRYING CAPACITY A	
		In Air	In Ground
10	3.080	64	75
16	1.910	81	87
25	1.200	104	113
35	0.868	128	136
50	0.641	152	159
70	0.443	194	197
95	0.320	239	236
120	0.253	278	269
150	0.206	316	302
185	0.164	365	342
240	0.125	430	397
300	0.100	506	454

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.