

U-1000 R2V/XV/RV Cable



Eland Product Group: A4U

APPLICATION

These power cables are used for electricity supply in low voltage installation systems. They are well adapted to underground use in industrial applications with an additional mechanical protection. These cables can be fixed on cable trays, within conduits or fixed to walls.

CHARACTERISTICS

Voltage Rating U_o/U
0.6/1kV

Temperature Rating

During installation -10°C to +50°C
Fixed installation: -25°C to +90°C

Minimum Bending Radius

6 x overall diameter

CONSTRUCTION

Conductor

1.5mm² to 4mm²: Class 1 solid copper conductor*
6mm² and above: Class 2 stranded copper conductor
*Class 2 stranded conductor available for these sizes on request

Insulation

XLPE (Cross-Linked Polyethylene)

Bedding

PVC (Polyvinyl Chloride)

Sheath

PVC (Polyvinyl Chloride)

Core Identification

- 1 core: ● Black
- 2 core: ● Blue ● Brown
- 3 core: ● Blue ● Brown ● Black (1.5mm² and 2.5mm² only)
- 3 core: ● Brown ● Black ● Grey
- 3 core including earth: ● Brown ● Blue ● Green/Yellow
- 4 core: ● Blue ● Brown ● Black ● Grey
- 4 core including earth: ● Blue ● Brown ● Black ● Green/Yellow
- 5 core: ● Blue ● Brown ● Black ● Grey ● Black
- 5 core including earth: ● Blue ● Brown ● Black ● Grey ● Green/Yellow
- 7 core and higher: ● Black cores with ○ White numbers + ● Green/Yellow

Sheath Colour

- Black

STANDARDS

NF C 32-321, IEC 60502-1, NF C 32-070 C2

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®, 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 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 THICKNESS OF INSULATION mm	NOMINAL THICKNESS OF SHEATH mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A4U01015	1	1.5	0.7	1.1	6.6	45
A4U01025	1	2.5	0.7	1.1	7	55
A4U01040	1	4	0.7	1.1	7.6	75
A4U01060	1	6	0.7	1.1	8.2	100
A4U0110	1	10	0.7	1.1	9.2	140
A4U0116	1	16	0.7	1.4	10.5	205
A4U0125	1	25	0.9	1.4	12.5	315
A4U0135	1	35	0.9	1.4	13.5	400
A4U0150	1	50	1	1.4	15	530
A4U0170	1	70	1.1	1.4	17	725
A4U0195	1	95	1.1	1.5	19	985
A4U01120	1	120	1.2	1.5	21	1260
A4U01150	1	150	1.4	1.6	23	1520
A4U01185	1	185	1.6	1.6	25.5	1940
A4U01240	1	240	1.7	1.7	28.5	2310
A4U01300	1	300	1.8	1.8	31	3200
A4U01400	1	400	2	1.9	34.2	3931
A4U01500	1	500	2.2	2	38	5020
A4U01630	1	630	2.4	2.3	44	5324
A4U02015	2	1.5	0.7	1.8	10.5	115
A4U02025	2	2.5	0.7	1.8	11.5	145
A4U02040	2	4	0.7	1.8	13	195
A4U02060	2	6	0.7	1.8	14	265
A4U0210	2	10	0.7	1.8	16	390
A4U0216	2	16	0.7	1.8	18.5	560
A4U0225	2	25	0.9	1.8	22	850
A4U0235	2	35	0.9	1.8	24.5	1080
A4U03015	3	1.5	0.7	1.8	11	130
A4U03025	3	2.5	0.7	1.8	12.5	170
A4U03040	3	4	0.7	1.8	13.5	230
A4U03060	3	6	0.7	1.8	15	325
A4U0310	3	10	0.7	1.8	17	485
A4U0316	3	16	0.7	1.8	19.5	705
A4U0325	3	25	0.9	1.8	23.5	1080
A4U0335	3	35	0.9	1.8	26	1390
A4U0350	3	50	1	1.8	29	1840
A4U0370	3	70	1.1	1.9	34	2540
A4U0395	3	95	1.1	2	38.5	3430
A4U03120	3	120	1.2	2.1	42.5	4440
A4U03150	3	150	1.4	2.3	47.5	5380
A4U03185	3	185	1.6	2.4	55	6920
A4U03240	3	240	1.7	2.6	59.5	8420
A4U03300	3	300	1.8	2.8	66	11300
A4U0350+35	3+E	50 + 1 x 35	1	1.8	31.1	2160
A4U0370+50	3+E	70 + 1 x 50	1.1	2	36.2	3010
A4U03095+50	3+E	95 + 1 x 50	1.1	2.1	40.6	3960
A4U03120+70	3+E	120 + 1 x 70	1.2	2.2	45.4	5160
A4U03150+70	3+E	150 + 1 x 70	1.4	2.3	49.5	6150



ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL THICKNESS OF INSULATION mm	NOMINAL THICKNESS OF SHEATH mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A4U03185+70	3+E	185 + 1 x 70	1.6	2.5	54.4	7780
A4U03240+95	3+E	240 + 1 x 95	1.7	2.7	61.5	9550
A4U04015	4	1.5	0.7	1.8	12	150
A4U04025	4	2.5	0.7	1.8	13	205
A4U04040	4	4	0.7	1.8	14.5	280
A4U04060	4	6	0.7	1.8	16	390
A4U0410	4	10	0.7	1.8	18.5	590
A4U0416	4	16	0.7	1.8	21	870
A4U0425	4	25	0.9	1.8	25.5	1365
A4U0435	4	35	0.9	1.8	28.5	1760
A4U0450	4	50	1	1.9	32.5	2460
A4U0470	4	70	1.1	2	37.5	3442
A4U0495	4	95	1.1	2.1	42.5	4690
A4U04120	4	120	1.2	2.3	47.5	6119
A4U04150	4	150	1.4	2.4	52.5	7405
A4U04185	4	185	1.6	2.6	59	8820
A4U04240	4	240	1.7	2.8	66.5	11865
A4U04300	4	300	1.8	3	75.5	14716
A4U05015	5	1.5	0.7	1.8	12.5	225
A4U05025	5	2.5	0.7	1.8	13.5	290
A4U0510	5	10	0.7	1.8	19	775
A4U0516	5	16	0.7	1.8	21.5	1135
A4U0525	5	25	0.9	1.8	27	1780
A4U0535	5	35	0.9	1.8	34	2069
A4U0550	5	50	1	1.9	36	2755
A4U0570	5	70	1.1	2	43	3925
A4U0595	5	95	1.1	2.1	47	5336
A4U07015	7	1.5	0.7	1.8	13.5	220
A4U07025	7	2.5	0.7	1.8	15	310
A4U12015	12	1.5	0.7	1.8	17	370
A4U12025	12	2.5	0.7	1.8	19.5	525
A4U19015	19	1.5	0.7	1.8	19.5	560
A4U19025	19	2.5	0.7	1.8	22.5	745
A4U24015	24	1.5	0.7	1.8	22.5	745
A4U24025	24	2.5	0.7	1.8	22.5	710
A4U27015	27	1.5	0.7	1.8	23.5	1000
A4U27025	27	2.5	0.7	1.8	26	1000
A4U37015	37	1.5	0.7	1.8	25.5	972
A4U37025	37	2.5	0.7	1.8	29.5	1350



ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm ²	1 CORE Amps		2 CORE Amps		5 CORE Amps	
	Air	Ground	Air	Ground	Air	Ground
1.5	24	31	26	37	23	31
2.5	33	41	36	48	31	41
4	45	59	49	63	42	53
6	58	74	63	80	54	66
10	80	101	89	104	75	87
16	107	128	115	136	100	113
25	138	144	149	173	127	144
35	169	174	185	208	158	174
50	207	206	-	-	192	206
70	268	254	-	-	246	254
95	328	301	-	-	298	301
120	382	345	-	-	346	343
150	441	387	-	-	395	395
185	506	454	-	-	430	454
240	599	501	-	-	538	301
300	693	565	-	-	621	565
400	-	639	-	-	-	-
500	-	713	-	-	-	-
650	-	785	-	-	-	-

VOLTAGE DROP

NOMINAL CROSS SECTIONAL AREA mm ²	SINGLE CORE AC SINGLE-PHASE V/A km		2 CORE AC SINGLE-PHASE V/A km		3 CORE AC SINGLE-PHASE V/A km	
	cos θ 1	cos θ 0.8	cos θ 1	cos θ 0.8	cos θ 1	cos θ 0.8
1	44.2	35.6	45	36.1	39	31.3
1.5	29.7	23.9	30.2	24.3	26.1	21
2.5	17.8	14.4	18.2	14.7	15.7	12.7
4	11.1	9.08	11.4	9.21	9.85	7.98
6	7.41	6.10	7.56	6.16	6.54	5.34
10	4.47	3.72	4.55	3.73	3.94	3.24
16	2.82	2.39	2.87	2.36	2.48	2.07
25	1.78	1.55	1.81	1.55	1.57	1.34
35	1.28	1.15	1.31	1.14	1.13	0.988
50	0.947	0.878	0.967	0.966	0.838	0.750
70	0.656	0.641	0.699	0.624	0.579	0.541
95	0.473	0.434	0.484	0.476	0.419	0.412
120	0.375	0.413	0.383	0.394	0.332	0.342
150	0.306	0.356	0.314	0.341	0.272	0.295
185	0.246	0.306	0.251	0.289	0.217	0.250
240	0.189	0.259	0.193	0.245	0.167	0.212
300	0.152	0.229	0.156	0.215	0.135	0.186

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.