

U3000 AR3V Quadra

IEC 60502-1 AL/XLPE/PVC 1.8/3 (3.6)kV



APPLICATION

Quadra construction based on Based on U3000- AR3V, these pre laid up cables give a time and space saving benefit. 4-cable twisted bundle U-3000 AR3V single-conductor cables of equal cross-section, identified by stripes of harmonised colours (3 phases + neutral) For use in Low-voltage industrial or commercial installations. Primarily used in PV plant. Connections between MV/LV transformers. Connections between main LV switchboards and distribution boards. Power supply for industrial production equipment (machinery).

STANDARDS

IEC 60502-1, Generally to NF-C-33-321
UV resistant ISO 4892-3
Water resistant to AD8

THE CABLE LAB[®]

AN ISO/IEC 17025 AND IECEE CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.



CHARACTERISTICS

Voltage Rating

AC: 1.8/3 (3.6)kV
DC: 1.5/1.5kV

Temperature Range

Maximum Conductor Operating Temperature: +90°C
Maximum Conductor Temperature During S.C: +250°C

Minimum Bending Radius

15 x Overall Diameter

CONSTRUCTION

Conductor

Class 2 Stranded Plain Aluminium Circular Compact Conductor

Insulation

XLPE (Cross linked Polyethylene)

Sheath

PVC (Polyvinyl Chloride)

Core Identification

Based on 4 AR3V singles, identified by stripes of harmonised colours (3 phases + neutral)

● Brown, ● Black, ● Grey, ● Blue

Sheath Colour

● Black

SUSTAINABILITY COMMITMENT

We are on a journey to Net Zero.

We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable operations at: www.elandcables.com/company/about-us/esg-sustainability



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, the RoHS Directive 2015/65/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab[®].





DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A6UA3KV04016	4x1	16	22	560
A6UA3KV04025	4x1	25	24	720
A6UA3KV04035	4x1	35	26	860
A6UA3KV04050	4x1	50	29	1060
A6UA3KV04070	4x1	70	32.5	1400
A6UA3KV04095	4x1	95	35.5	1720
A6UA3KV04120	4x1	120	38.6	2120
A6UA3KV04150	4x1	150	43	2540
A6UA3KV04185	4x1	185	45.2	4500
A6UA3KV04240	4x1	240	50.5	3740
A6UA3KV04300	4x1	300	55	4500
A6UA3KV04400	4x1	400	60.8	5640
A6UA3KV04500	4x1	500	68.6	7100
A6UA3KV04630	4x1	630	76.8	9120

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM CONDUCTOR DC RESISTANCE AT 20°C Ω/Km	MAXIMUM CONDUCTOR AC RESISTANCE AT 50 Hz Ω/Km	CURRENT RATING		
			Laid in ground	Laid in duct	Laid in free air
16	1.91	2.435	102	74	85
25	1.2	1.53	131	96	112
35	0.868	1.107	157	115	137
50	0.641	0.817	185	137	166
70	0.443	0.565	227	170	210
95	0.32	0.408	271	205	257
120	0.253	0.323	309	236	300
150	0.206	0.263	346	267	343
185	0.164	0.209	393	306	398
240	0.125	0.159	456	361	475
300	0.1	0.128	516	414	551
400	0.0778	0.099	590	478	648
500	0.0605	0.077	673	557	763
630	0.469	0.06	765	645	892

Laying conditions at trefoil formation are as below:

- Soil thermal resistivity: 120°C.Cm/Watt
- Burial depth: 0.5m
- Ground temperature: 15°C | Air temperature: 25°C | Frequency: 50Hz

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.