

Tray VFD 1405 600V Cable



Eland Product Group: C2A

APPLICATION

Power cable for inverters and connections to frequency converters.

CHARACTERISTICS

Nominal Voltage U_o/U

600/1000V

Flexible Motor Supply: 1000 V

Temperature Range

UL rating: to +90°C

Fixed: -40°C to +105°C

Flexible: -5°C to +105°C

Minimum Bending Radius

Fixed: 6x Overall diameter

Flexible: 20x Overall diameter

CONSTRUCTION

Conductor

Class 5 flexible stranded copper

Insulation

XLPE (special formulated Cross-linked Polyethylene)

Stranding

3x+1g: cores twisted together + fillers

3x+3g: phase units laid up with earth-conductors in interstices

4g+: control cores twisted in pairs and screened, supply cores and control screened pairs twisted together

Individual Screen (4 core only)

Aluminium tape + PETP foil with tinned copper braid (85% coverage)

Overall Screen

Aluminium tape + PETP foil with tinned copper braid (85% coverage)

Outer Sheath

special sunlight and oil resistant copolymer

Core Identification

● Black conductors numbered + ● Green/Yellow

Sheath Colour

● Black

STANDARDS

IEC 60228, DIN VDE 0295, UL 1581, UL 83, NFPA 79 2007, NEC 336.10(7) Class 1, Div. 2 Art. 336, 392, 501

Flame retardant according to: UL FT4/ IEEE 1202, UL 1685
 UV resistant according to EN 50396, HD 605 A1, UL 2277 WTTC,
 UL 1277 (Oil-resistant according to UL OIL RES I and Water-resistant, UL 90°C Dry or 90°C Wet)

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 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.	NUMBER OF CORES	NOMINAL CROSS SECTIONAL AREA AWG/MCM	NOMINAL OUTER DIAMETER		NOMINAL CABLE WEIGHT lbs/mft - kg/km	
			inches	mm	lbs/ft	kg/km
C2A3+3010AWG	3+3	10 + 3G 18	0.608	15.2	252	375
C2A3+30080AWG	3+3	8 + 3G 16	0.724	18.1	378.3	563
C2A3+30060AWG	3+3	6 + 3G 14	0.804	20.1	552.4	822
C2A3+30040AWG	3+3	4 + 3G 12	0.976	24.4	824.5	1227
C2A3+30020AWG	3+3	2 + 3G 10	1.08	27	1077.9	1604
C2A3+30010AWG	3+3	1 + 3G 8	1.28	32	1560.4	2322
C2A3+31/0AWG	3+3	1/0 + 3G 10	1.295	32.9	1669	2484
C2A3+32/0AWG	3+3	2/0 + 3G 8	1.46	36.5	1992.5	2965
C2A3+33/0AWG	3+3	3/0 + 3G 6	1.592	39.8	2598	3866
C2A3+34/0AWG	3+3	4/0 + 3G 6	1.788	44.7	3198.7	4760
C2A3+3250AWG	3+3	250 + 3G 4	1.928	48.2	3972.9	5912
C2A3+3350AWG	3+3	350 + 3G 2	2.084	52.1	4831.7	7190
C2A3+3500AWG	3+3	500 + 3G 6	2.365	60.1	6392	9511
C2A4G14AWG	4	14	0.456	11.4	150.5	224
C2A4G012AWG	4	12	0.52	13	209.7	312
C2A4G010AWG	4	10	0.612	15.3	301.1	448
C2A4G0080AWG	4	8	0.776	19.4	479.8	714
C2A4G0060AWG	4	6	0.912	22.8	702.2	71045
C2A4G0040AWG	4	4	1.052	26.3	1004	1494
C2A4G0020AWG	4	2	1.168	29.2	1323.9	1970
C2A4G0010AWG	4	1	1.384	34.6	1872.9	2787
C2A4G2/0AWG	4	2/0	1.584	39.6	2526.7	3760
C2A4G3/0AWG	4	3/0	1.784	44.6	3332.4	4959
C2A4G4/0AWG	4	4/0	1.936	48.4	4085.1	6079
C2A4G250AWG	4	250	2.088	52.2	4961.4	7383
C2A4G350AWG	4	350	2.26	56.5	5999	8927
C2A4G0142018	4+2	14 + (2 x18)C	0.608	15.2	229.2	341
C2A4G0122018	4+2	12 + (2 x18)C	0.66	16.5	284.2	423
C2A4G0142016	4+2	14 + (2 x16)C	0.63	15.7	246	366
C2A4G0122016	4+2	12 + (2 x16)C	0.68	17	302.4	450
C2A4G0102016	4+2	10 + (2 x6)C	0.72	18	359.6	535
C2A4G00802016	4+2	8 + (2 x16)C	0.912	22.8	567.9	845
C2A4G00602016	4+2	6 + (2 x6)C	1	25	747.9	1113
C2A4G0142014	4+2	14 + (2 x14)C	0.638	16.2	256.7	382
C2A4G0122014	4+2	12 + (2 x14)C	0.697	17.7	309.8	461
C2A4G0102014	4+2	10 + (2 x14)C	0.744	18.9	323.9	482
C2A4G00802014	4+2	8 + (2 x14)C	0.913	23.2	514.8	766
C2A4G00602014	4+2	6 + (2 x14)C	1.012	25.7	708.3	1054
C2A4G00402014	4+2	4 + (2 x14)C	1.138	28.9	992.5	1477
C2A4G00202014	4+2	2 + (2 x14)C	1.268	32.2	1297	1930
C2A4G00102014	4+2	1 + (2 x14)C	1.504	38.2	1842.6	2742
C2A4G2/02014	4+2	2/0 + (2 x14)C	1.72	43.7	2483	3695

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.

ELAND PART NO.	NUMBER OF CORES	NOMINAL CROSS SECTIONAL AREA AWG/MCM	NOMINAL OUTER DIAMETER inches/mm	NOMINAL COPPER WEIGHT lbs/mft - kg/km	NOMINAL CABLE WEIGHT lbs/mft - kg/km
	4 G	14 + (2 x 18)C + (2 x 18)C	0.692 - 17.3	173.4 - 258	287.6 - 428
	4 G	12 + (2 x 18)C + (2 x 18)C	0.74 - 18.5	216.4 - 322	346.1 - 515
	4 G	12 + (2 x 18)C + (2 x 16)C	0.76 - 19	224.4 - 334	358.2 - 533
	4 G	10 + (2 x 18)C + (2 x 16)C	0.8 - 20	283.6 - 422	424.7 - 632
	4 G	8 + (2 x 18)C + (2 x 16)C	0.98 - 24.4	401.2 - 597	633 - 942
	4 G	6 + (2 x 16)C + (2 x 16)C	1.08 - 27	571.9 - 851	826.6 - 1230
	4 G	12 + (2 x 14)C + (2 x 14)C	0.78 - 19.8	266.1 - 396	396.5 - 590
	4 G	10 + (2 x 14)C + (2 x 14)C	0.87 - 22.1	317.9 - 473	494.6 - 736
	4 G	8 + (2 x 14)C + (2 x 14)C	1.004 - 25.5	435.5 - 648	665.3 - 990
	4 G	6 + (2 x 14)C + (2 x 14)C	1.138 - 28.9	608.8 - 906	905.2 - 1347
	4 G	4 + (2 x 14)C + (2 x 14)C	1.268 - 32.2	883.7 - 1315	1210.9 - 1802
	4 G	2 + (2 x 14)C + (2 x 14)C	1.362 - 34.6	1141.7 - 1699	1485.8 - 2211