# Drincable 800 Cable


Eland Product Group: A6E

## APPLICATION

WRAS-approved cable suitable for permanent submersion in potable water up to a depth of 800m. Can be used where improved chemical and abrasion resistance is required, including submersible pumps in mining application, submersible pumps for drinking water, depuration / chlorination systems, swimming pool lighting, aquariums and processing and preserving systems of drink and foodstuff. Water resistance tested to EN 50525-2-21 (AD8 condition).

## CHARACTERISTICS

**Voltage Rating** Uo/U
0.6/1kV

**Test Voltage**
4kV

**Temperature Rating**
-25°C to +90°C

**Maximum Water Temperature**
+80°C

**Minimum Bending Radius**
Fixed: 3 x overall diameter
Flexed: 5 x overall diameter

## CONSTRUCTION

**Conductor**
Class 5 tinned copper conductor

**Insulation**
EPR compound

**Sheath**
Elastomeric cross-linked compound

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

**Sheath Colour**
Light Blue

## STANDARDS

IEC 60811-2-1, EN 50525-2-21, EN 50363-1, IEC/EN 60228, KTW, DVGW W270, DM174/04

## 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.

## 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 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 |
|---|---|---|---|---|
| A6E10015 | 1 | 1.5 | 5.55 | 35 |
| A6E10025 | 1 | 2.5 | 6.2 | 55 |
| A6E10040 | 1 | 4 | 7 | 70 |
| A6E10060 | 1 | 6 | 7.8 | 100 |
| A6E1010 | 1 | 10 | 9.3 | 155 |
| A6E1016 | 1 | 16 | 10.2 | 215 |
| A6E1025 | 1 | 25 | 11.7 | 305 |
| A6E1035 | 1 | 35 | 13.2 | 380 |
| A6E1050 | 1 | 50 | 15.3 | 570 |
| A6E1070 | 1 | 70 | 17.6 | 795 |
| A6E1095 | 1 | 95 | 19.7 | 1030 |
| A6E1120 | 1 | 120 | 22.2 | 1305 |
| A6E1150 | 1 | 150 | 24.1 | 1590 |
| A6E1185 | 1 | 185 | 26.7 | 1980 |
| A6E1240 | 1 | 240 | 29.8 | 2560 |
| A6E1300 | 1 | 300 | 32.9 | 3180 |
| A6E1400 | 1 | 400 | 36.5 | 4050 |
| A6E1500 | 1 | 500 | 41.7 | 4990 |
| A6E3G0015 | 3G | 1.5 | 9.3 | 110 |
| A6E3G0025 | 3G | 2.5 | 10.6 | 180 |
| A6E3G0040 | 3G | 4 | 11.8 | 225 |
| A6E3G0060 | 3G | 6 | 13.1 | 295 |
| A6E3G010 | 3G | 10 | 16.9 | 480 |
| A6E3G016 | 3G | 16 | 19.2 | 680 |
| A6E3G025 | 3G | 25 | 23.7 | 995 |
| A6E3G035 | 3G | 35 | 26.6 | 1325 |
| A6E3G050 | 3G | 50 | 31.3 | 1890 |
| A6E3G070 | 3G | 70 | 35.9 | 2620 |
| A6E3G095 | 3G | 95 | 40.2 | 3225 |
| A6E3G120 | 3G | 120 | 45.7 | 4130 |
| A6E3G150 | 3G | 150 | 50.6 | 5115 |
| A6E3G185 | 3G | 185 | 55.1 | 6200 |
| A6E3G240 | 3G | 240 | 62 | 7850 |
| A6E3G300 | 3G | 300 | 69 | 10050 |
| A6E4G0015 | 4G | 1.5 | 10.2 | 135 |
| A6E4G0025 | 4G | 2.5 | 11.8 | 200 |
| A6E4G0040 | 4G | 4 | 13.2 | 270 |
| A6E4G0060 | 4G | 6 | 14.6 | 380 |
| A6E4G010 | 4G | 10 | 18.8 | 630 |
| A6E4G016 | 4G | 16 | 21.1 | 870 |
| A6E4G025 | 4G | 25 | 26.3 | 1310 |
| A6E4G035 | 4G | 35 | 29.4 | 1725 |
| A6E4G050 | 4G | 50 | 34.7 | 2490 |
| A6E4G070 | 4G | 70 | 39.8 | 3420 |
| A6E4G095 | 4G | 95 | 45.4 | 4480 |
| A6E4G120 | 4G | 120 | 50.6 | 5605 |
| A6E4G150 | 4G | 150 | 56.1 | 6985 |
| A6E4G185 | 4G | 185 | 61.6 | 8465 |
| A6E4G240 | 4G | 240 | 68.9 | 10900 |



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## CONDUCTORS

| NOMINAL CROSS SECTIONAL AREA mm² | ELECTRICAL RESISTANCE AT 20°C ohms/km | PHASE REACTANCE AT 50HZ ohms/km | |
|---|---|---|---|
| | Flexible Conductors Tinned Copper | Single Core Cables | Multi-core Cables |
| 1.5 | 13.7 | 0.168 | 0.118 |
| 2.5 | 8.21 | 0.155 | 0.109 |
| 4 | 5.09 | 0.143 | 0.101 |
| 6 | 3.39 | 0.135 | 0.0955 |
| 10 | 1.95 | 0.119 | 0.0861 |
| 16 | 1.24 | 0.112 | 0.0817 |
| 25 | 0.795 | 0.106 | 0.0813 |
| 35 | 0.565 | 0.101 | 0.0783 |
| 50 | 0.393 | 0.101 | 0.0779 |
| 70 | 0.277 | 0.0965 | 0.0751 |
| 95 | 0.210 | 0.0975 | 0.0762 |
| 120 | 0.164 | 0.0939 | 0.0740 |
| 150 | 0.132 | 0.0928 | 0.0745 |
| 185 | 0.108 | 0.0908 | 0.0742 |
| 240 | 0.0817 | 0.0902 | 0.0752 |
| 300 | 0.0654 | 0.0895 | 0.0750 |
| 400 | 0.0495 | 0.0876 | 0.0742 |
| 500 | 0.0391 | 0.0867 | 0.0744 |

## ELECTRICAL CHARACTERISTICS

| NOMINAL CROSS SECTIONAL AREA mm² | CURRENT CARRYING CAPACITY A | |
|---|---|---|
| | Laying in Air | Laying in Water |
| 1.5 | 23 | 29 |
| 2.5 | 32 | 38 |
| 4 | 42 | 52 |
| 6 | 54 | 67 |
| 10 | 75 | 94 |
| 16 | 100 | 125 |
| 25 | 127 | 166 |
| 35 | 158 | 205 |
| 50 | 192 | 256 |
| 70 | 246 | 316 |
| 95 | 298 | 377 |
| 120 | 346 | 438 |
| 150 | 399 | 505 |
| 185 | 456 | 577 |
| 240 | 538 | 681 |
| 300 | 621 | 785 |

Conductor temperature: +90°C
Ambient air/water temperature: +30°C