

## Drincable 600 Cable



Eland Product Group: B6E

### APPLICATION

The Drincable cable is suitable for permanent immersion in potable water to a depth of 600m. WRAS approved, it will not support microbial growth, or affect the taste, appearance, transparency or colour of water. It will not introduce metals or toxic substances. Designed for submersible pumps for drinking water, depuration and chlorination systems, electrical installations in manufacturing, processing and preserving systems of drinks and foodstuff, swimming pool lightings, and other water treatment operations. Available as a circular or flat configuration.

### CHARACTERISTICS

**Voltage Rating** U<sub>o</sub>/U  
450/750V

**Test Voltage**  
2.5kV

#### Temperature Rating

Fixed temperature range: -40°C to +90°C  
Flexed temperature range: -25°C to +90°C  
Maximum short circuit temperature: 250°C

#### Minimum Bending Radius

Circular Fixed: 3 x overall diameter  
Circular Flexed: 5 x overall diameter  
Flat Fixed: Height < 12mm 3 x H  
Flat Flexed: Height > 12mm 4 x H

### CONSTRUCTION

#### Conductor

Class 5 Tinned Copper

#### Insulation

EPR (Ethylene Propylene Rubber) Compound

#### Sheath

Special XLPE (Cross-Linked Polyethylene) Compound

#### Core Identification

1 core: ● Black  
2 core: ● Blue ● Brown  
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

BE EN/IEC 60228, BE EN 50363-1, VDE 0207 part 20,  
BS EN 50363-2-1,

ACS - WRAS approved

Acid and Alkaline Solution according to BE EN/IEC 60811-100

Ozone Resistant according to BS EN/IEC 60811-403

AD8 Water Resistance Test according to EN 50525-2-21 and  
AC internal test



### 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.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL DIAMETER OF CONDUCTOR mm	OVERALL DIAMETER mm		NOMINAL WEIGHT kg/km	MAXIMUM TENSILE LOAD N
				Minimum	Maximum		
B6E010015	1	1.5	1.5	5.7	6.6	45	23
B6E010025	1	2.5	1.9	5.9	6.8	55	38
B6E010040	1	4	2.4	6.5	7.5	75	60
B6E010060	1	6	2.9	7.4	8.4	100	90
B6E01010	1	10	3.8	8.6	9.7	150	150
B6E01016	1	16	4.9	10.0	11.1	210	240
B6E01025	1	25	6.1	11.9	13.1	310	375
B6E01035	1	35	7.2	13.0	14.3	400	525
B6E01050	1	50	8.9	15.7	17.1	590	750
B6E01070	1	70	10.6	17.8	19.3	790	1050
B6E01095	1	95	12.3	20.7	22.7	1050	1425
B6E01120	1	120	14.2	22.2	24.3	1280	1800
B6E01150	1	150	15.5	24.0	26.1	1570	2250
B6E01185	1	185	17.0	28.0	30.3	1980	2775
B6E01240	1	240	19.5	31.1	33.6	2500	3600
B6E01300	1	300	22.2	34.4	37.1	3110	4500
B6E020015	2	1.5	1.5	9.0	10.0	110	45
B6E020025	2	2.5	1.9	10.7	11.8	160	75
B6E020040	2	4	2.4	12.1	13.2	210	120
B6E020060	2	6	2.9	13.6	14.8	280	180
B6E02010	2	10	3.8	18.3	19.7	490	300
B6E02016	2	16	4.9	20.5	22.6	670	480
B6E02025	2	25	6.1	24.4	26.7	970	750
B6E030015	3	1.5	1.5	9.7	10.7	140	68
B6E030025	3	2.5	1.9	11.5	12.6	190	113
B6E030040	3	4	2.4	13	14.2	260	180
B6E030060	3	6	2.9	14.6	15.9	350	270
B6E03010	3	10	3.8	19.7	21.2	610	450
B6E03016	3	16	4.9	22.1	24.3	840	720
B6E03025	3	25	6.1	26.3	28.7	1220	1125
B6E03035	3	35	6.1	26.3	28.7	1220	1125
B6E03050	3	50	8.9	33.8	36.5	2210	2250
B6E03070	3	70	10.6	37.9	40.8	2930	3150
B6E03095	3	95	12.3	43.5	47.3	3840	4275
B6E03120	3	120	14.2	47.5	51.5	4730	5400
B6E03150	3	150	15.5	51.8	56.3	5870	6750
B6E03185	3	185	17.0	56.5	61.2	7090	7325
B6E040015	4	1.5	1.5	10.7	11.8	170	90
B6E040025	4	2.5	1.9	12.7	13.9	240	150
B6E040040	4	4	2.4	14.3	15.5	320	240
B6E040060	4	6	2.9	16.3	17.6	440	360

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL DIAMETER OF CONDUCTOR mm	OVERALL DIAMETER mm		NOMINAL WEIGHT kg/km	MAXIMUM TENSILE LOAD N
				Minimum	Maximum		
B6E04010	4	10	3.8	21.5	23.6	760	600
B6E04016	4	16	4.9	24.2	26.5	1050	960
B6E04025	4	25	6.1	29.2	31.7	1560	1500
B6E04035	4	35	7.2	32.0	34.7	2000	2100
B6E04050	4	50	8.9	39.2	42.2	2970	3000
B6E04070	4	70	10.6	42.2	45.9	3770	4200
B6E04095	4	95	12.3	48.9	52.9	4980	5700
B6E04120	4	120	14.2	53.0	57.2	6080	7200
B6E04150	4	150	15.5	57.9	62.7	7570	9000
B6E04185	4	185	17.0	63.2	68.6	9180	111000

## DIMENSIONS - FLAT

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL DIAMETER OF CONDUCTOR mm	HEIGHT mm		WIDTH mm		NOMINAL WEIGHT kg/km	MAXIMUM TENSILE LOAD N
				Minimum	Maximum	Minimum	Maximum		
				B6E030060F	3	6	2.9		
B6E03010F	3	10	3.8	9.9	10.9	22.9	23.9	490	450
B6E03016F	3	16	4.9	12.0	13.0	28.0	29.0	730	720
B6E03025F	3	25	6.1	14.0	15.0	33.0	34.0	1060	1125
B6E03035F	3	35	7.2	16.0	17.5	37.0	38.7	1430	1575
B6E03050F	3	50	8.9	18.5	20.0	44.1	45.8	2010	2250
B6E03070F	3	70	10.6	20.5	22.0	50.5	52.5	2680	3150
B6E03095F	3	95	12.3	23.1	23.9	57.1	57.9	3380	4275
B6E03120F	3	120	14.2	25.1	25.9	62.1	62.9	4160	5400
B6E03150F	3	150	15.5	26.8	27.6	67.2	68.0	5080	6750
B6E03185F	3	185	17.0	28.6	29.4	72.6	73.4	6110	8325
B6E040040F	4	4	2.4	8.0	9.0	23.0	24.0	350	240
B6E040060F	4	6	2.9	8.5	9.5	24.5	25.5	440	360
B6E04010F	4	10	3.8	10.0	11.0	29.5	30.5	640	600
B6E04016F	4	16	4.9	12.0	13.0	34.5	35.5	940	960
B6E04025F	4	25	6.1	15.8	17.2	42.1	43.5	1500	1500
B6E04035F	4	35	7.2	18.6	19.4	48.6	49.8	1990	2100
B6E04050F	4	50	8.9	19.4	20.2	56.8	57.6	2650	3000
B6E04070F	4	70	10.6	24.0	24.8	65.4	66.6	3720	4200
B6E04095F	4	95	12.3	25.6	26.4	73.0	74.2	4680	5700
B6E04120F	4	120	14.2	24.3	25.1	73.8	75.0	5260	7200

## ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	MAXIMUM DIAMETERS OF WIRES IN CONDUCTOR mm	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C Ohm/km	LAYING IN PIPE AIR (3 ACTIVE PHASES) A		LAYING IN FREE AIR (3 ACTIVE PHASES) A	
			3 Single Core	1 Three Core	3 Single Core	1 Three Core
1.5	0.26	13.7	20	19.5	24	23
2.5	0.26	8.21	28	26	33	32
4	0.31	5.09	37	35	45	42
6	0.31	3.39	48	44	58	54
10	0.41	1.95	66	60	80	75
16	0.41	1.24	88	80	107	100
25	0.41	0.795	117	105	141	127
35	0.41	0.565	144	128	176	158
50	0.41	0.393	175	154	216	192
70	0.51	0.277	222	194	279	246
95	0.51	0.210	269	233	342	298
120	0.51	0.164	312	268	400	346
150	0.51	0.132	355	300	464	399
185	0.51	0.108	417	340	533	456
240	0.51	0.0817	490	398	634	538

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.