

BFOU 0.6/1kV Power Cable



Eland Product Group: **ASH**

APPLICATION

A flame resistant, fire retardant, halogen free cable for fixed installation in various electromechanical and electric equipment, emergency and critical systems as well as electric distribution and lighting systems. Suitable for use in all marine environment conditions such as muddy, dry, wet or oily conditions meeting the requirements of NEK 606.

CONSTRUCTION

Conductor

Class 2 stranded tinned copper conductor according to BS EN 60228 (previously BS 6360)

Tape

Mica glass tape

Insulation

Halogen free EPR (Ethylene Propylene Rubber)

Bedding

Halogen free compound

Screen

TCWB (Tinned Copper Wire Braid)

Sheath

SHF2, MUD (halogen free, mud resistant)

Note

Class 5 flexible conductor available on request

CABLE STANDARDS

NEK 606 P5/P12, IEC 60092-353

IEC 60092-305/351/359

BS EN/IEC 60332-1, BS EN/IEC 60332-3 Cat A

BS EN/IEC 60331, BS EN/IEC 60754-1 and 2

BS EN/IEC 61034-1 and 2, DIN EN 50268-1 and 2



The electrical and dimensional properties of this product are measured by the Technical and Quality Assurance department at the Eland Cables laboratory. Cable performance in respect of conductor resistance, construction quality (workmanship), dimensional consistency, and other parameters are verified to published standards and approved product drawings. Conformance to RoHS (Restriction of the use of Hazardous Substances) is determined and confirmed.

CHARACTERISTICS

Voltage Rating (U_0/U)

600/1000V

Test Voltage

3.5kV

Operating Temperature

-40°C to +90°C

Minimum Bending Radius

8 x overall diameter

Sheath

● Black

DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
ASHNB01015	1	1.5	9.3	150
ASHNB01025	1	2.5	9.8	170
ASHNB01040	1	4	10.4	200
ASHNB01060	1	6	10.9	230
ASHNB0110	1	10	11.9	290
ASHNB0116	1	16	13	380
ASHNB0125	1	25	15.4	550
ASHNB0135	1	35	16.6	670
ASHNB0150	1	50	18.1	860
ASHNB0170	1	70	20.1	1110
ASHNB0195	1	95	22.4	1420
ASHNB01120	1	120	24.4	1710
ASHNB01150	1	150	26.5	2050
ASHNB01185	1	185	28.8	2480
ASHNB01240	1	240	31.6	3160
ASHNB01300	1	300	35	3850
ASHNB02015	2	1.5	14.2	320
ASHNB02025	2	2.5	15.2	380
ASHNB02040	2	4	16.4	450
ASHNB02060	2	6	17.5	530
ASHNB0210	2	10	19.5	720
ASHNB0216	2	16	21.7	890
ASHNB0225	2	25	25.5	1280
ASHNB0235	2	35	28	1580
ASHNB0250	2	50	31	2050
ASHNB03015	3	1.5	14.9	360
ASHNB03025	3	2.5	16	430
ASHNB03040	3	4	17.3	520
ASHNB03060	3	6	18.4	620
ASHNB0310	3	10	20.7	820
ASHNB0316	3	16	23	1070
ASHNB0325	3	25	27.2	1850
ASHNB0335	3	35	29.8	1960
ASHNB0350	3	50	33.1	2580
ASHNB0370	3	70	38.3	3450
ASHNB0395	3	95	43.2	4480
ASHNB03120	3	120	48	5650
ASHNB03150	3	150	52.4	6800
ASHNB03185	3	185	57.5	8400
ASHNB03240	3	240	64	10810
ASHNB04015	4	1.5	16.1	430
ASHNB04025	4	2.5	17.3	510
ASHNB04040	4	4	18.7	620
ASHNB04060	4	6	20	740
ASHNB0410	4	10	22.6	1000
ASHNB0416	4	16	25.1	1320
ASHNB0425	4	25	29.8	1960
ASHNB0435	4	35	32.7	2450

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
ASHNB0450	4	50	37.3	3120
ASHNB0470	4	70	42.2	4440
ASHNB0495	4	95	48.1	5920
ASHNB04120	4	120	53	7210
ASHNB04150	4	150	58	8690
ASHNB04185	4	185	64.1	10700
ASHNB05015	5	1.5	17.4	490
ASHNB05025	5	2.5	18.7	590
ASHNB05040	5	4	20.3	690
ASHNB05060	5	6	21.8	860
ASHNB0510	5	10	24.6	1150
ASHNB0516	5	16	27.4	1600
ASHNB0525	5	25	32.6	2280
ASHNB0535	5	35	36.8	2960
ASHNB0550	5	50	40.9	4070
ASHNB0570	5	70	46.3	5350
ASHNB0595	5	95	52.9	7120
ASHNB07015	7	1.5	18.7	580
ASHNB07025	7	2.5	20.2	700
ASHNB10015	10	1.5	22.3	880
ASHNB10025	10	2.5	24.2	1060
ASHNB12015	12	1.5	24	930
ASHNB12025	12	2.5	26	1150
ASHNB14015	14	1.5	25.1	1040
ASHNB14025	14	2.5	27.2	1270
ASHNB19015	19	1.5	27.8	1250
ASHNB19025	19	2.5	30.2	1570
ASHNB24015	24	1.5	30.9	1550
ASHNB24025	24	2.5	34.1	2090
ASHNB27015	27	1.5	32.9	1720
ASHNB27025	27	2.5	36.8	2210
ASHNB37015	37	1.5	37.6	2220
ASHNB37025	37	2.5	41	2930

CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C ohms/km	
	Class 2	Class 5
0.5	36.7	40.1
0.75	24.8	26.7
1	18.2	20
1.5	12.2	13.7
2.5	7.56	8.21
4	4.7	5.09
6	3.11	3.39
10	1.84	1.95
16	1.16	1.24
25	0.734	0.795
35	0.529	0.565
50	0.391	0.393
70	0.27	0.277
95	0.195	0.210
120	0.154	0.164
150	0.126	0.132
185	0.1	0.108
240	0.0762	0.0817
300	0.0607	0.0654

ELECTRICAL CHARACTERISTICS

Current Carrying Capacity

NOMINAL CROSS SECTIONAL AREA mm ²	1 CORE Amps	2 CORE Amps	3 AND 4 CORE Amps	5 CORE Amps
1	18	15	13	11
1.5	23	20	16	13
2.5	30	26	21	18
4	40	34	28	23
6	52	44	36	30
10	72	61	50	42
16	96	82	67	56
25	127	108	89	74
35	157	133	110	92
50	196	167	137	115
70	242	206	169	142
95	293	249	205	171
120	339	288	237	198
150	389	331	273	227
185	444	377	311	260
240	522	444	366	305
300	601	511	420	351

Conductor Temperature: 90°C
Ambient Temperature 45°C

DE-RATING FACTORS

NOMINAL CROSS SECTIONAL AREA mm ²	NO. OF CORES							
	7	10	12	14	19	24	27	37
1	9	8	8	7	7	6	6	5
1.5	12	11	10	10	9	8	8	7
2.5	16	14	13	12	11	10	10	9

AMBIENT TEMPERATURE	35°C	40°C	45°C	50°C	55°C	60°C	65°C	70°C	75°C	80°C
DE-RATING FACTOR	1.1	1.05	1	0.94	0.88	0.82	0.74	0.67	0.58	0.47

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.