

# RFOU 0.6/1kV Power Cable



Eland Product Group: **ASH**

## APPLICATION

A flame retardant halogen free power, control and lighting cable for fixed installation. Suitable for use in all conditions in a marine environment such as muddy, dry, wet and oily conditions meeting the requirements of NEK 606.

## CONSTRUCTION

### Conductor

Class 2 stranded tinned copper conductor

### Insulation

Halogen free EPR (Ethylene Propylene Rubber)

### Bedding

Halogen free compound

### Screen

TCWB (Tinned Copper Wire Braid)

### Sheath

SHF, MUD (halogen free, mud resistant)

### Note

Class 5 flexible conductors available on request

## CABLE STANDARDS

NEK 606 P1/P8, IEC 60092/353, IEC 60092/350-351-359, BS EN/IEC 6754/1 and 2, BS EN/IEC 61034/1 and 2, DIN EN 50268/1 and 2, BS EN 60288



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<sub>o</sub>/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 <sup>2</sup>	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
ASHNR01015	1	1.5	8.7	140
ASHNR01025	1	2.5	9.2	160
ASHNR01040	1	4	9.8	170
ASHNR01060	1	6	10.4	220
ASHNR0110	1	10	11.4	280
ASHNR0116	1	16	12.5	360
ASHNR0125	1	25	14.8	480
ASHNR0135	1	35	16	630
ASHNR0150	1	50	17.6	840
ASHNR0170	1	70	19.6	1070
ASHNR0195	1	95	21.9	1300
ASHNR01120	1	120	23.9	1700
ASHNR01150	1	150	25.9	2020
ASHNR01185	1	185	28.3	2350
ASHNR01240	1	240	31.1	3120
ASHNR01300	1	300	34.4	3750
ASHNR02015	2	1.5	12.6	250
ASHNR02025	2	2.5	14	330
ASHNR02040	2	4	15.2	400
ASHNR02060	2	6	16.3	470
ASHNR0210	2	10	18.4	630
ASHNR0216	2	16	20.5	820
ASHNR0225	2	25	24.3	1200
ASHNR0235	2	35	26.8	1500
ASHNR0250	2	50	29.9	1840
ASHNR03015	3	1.5	13.2	280
ASHNR03025	3	2.5	14.7	380
ASHNR03040	3	4	16	460
ASHNR03060	3	6	17.2	550
ASHNR0310	3	10	19.4	750
ASHNR0316	3	16	21.7	1000
ASHNR0325	3	25	25.9	1490
ASHNR0335	3	35	28.5	1870
ASHNR0350	3	50	31.8	2430
ASHNR0370	3	70	37	3320
ASHNR0395	3	95	41.9	4340
ASHNR03120	3	120	46.7	5490
ASHNR03150	3	150	51.2	6630
ASHNR03185	3	185	56.7	8080
ASHNR03240	3	240	62.8	10130
ASHNR04015	4	1.5	14.7	360
ASHNR04025	4	2.5	15.8	440
ASHNR04040	4	4	17.3	550
ASHNR04060	4	6	18.6	660
ASHNR0410	4	10	21.1	910
ASHNR0416	4	16	23.7	1230
ASHNR0425	4	25	28.3	1840
ASHNR0435	4	35	31.3	2230

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
ASHNR0425	4	50	35.9	3090
ASHNR0470	4	70	40.7	4330
ASHNR0495	4	95	46.7	5810
ASHNR04120	4	120	51.5	7030
ASHNR04150	4	150	57	8610
ASHNR04185	4	185	62.6	10570
ASHNR05015	5	1.5	15.8	420
ASHNR05025	5	2.5	17.1	510
ASHNR05040	5	4	18.6	640
ASHNR05060	5	6	20.1	810
ASHNR0510	5	10	22.9	1110
ASHNR0516	5	16	25.8	1470
ASHNR0525	5	25	31	2240
ASHNR0535	5	35	34.7	2820
ASHNR0550	5	50	39.3	3980
ASHNR0570	5	70	45.2	5270
ASHNR0595	5	95	51.3	7570
ASHNR07015	7	1.5	16.9	490
ASHNR07025	7	2.5	18.4	610
ASHNR10015	10	1.5	20	680
ASHNR10025	10	2.5	21.9	940
ASHNR12015	12	1.5	21.4	780
ASHNR12025	12	2.5	23.4	980
ASHNR14015	14	1.5	22.4	930
ASHNR14025	14	2.5	24.5	1090
ASHNR19015	19	1.5	24.7	1050
ASHNR19025	19	2.5	27.1	1420
ASHNR24015	24	1.5	27.4	1310
ASHNR24025	24	2.5	30.2	1830
ASHNR27015	27	1.5	29.1	1570
ASHNR27025	27	2.5	32.1	1990
ASHNR37015	37	1.5	32.9	1820
ASHNR37025	37	2.5	36.7	2600

## CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	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 <sup>2</sup>	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
400	719	611	503	420
500	827	703	579	484
630	955	812	669	558

Conductor Temperature: 90°C  
Ambient Temperature 45°C

## DE-RATING FACTORS

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	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.