

# BFOU(i) 150/250V Cable



Eland Product Group: **ASH**

## APPLICATION

A halogen free fire resistant, individually screened, instrumentation and telecommunication cable for fixed installation. Suitable for use in all marine environments such as muddy, dry, wet or oily conditions, meeting the requirement for 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)

### Drain Wire

Stranded tinned copper

### Individual Screen

Copper polyester tape

### Bedding

Halogen free compound

### Screen

TCWB (Tinned Copper Wire Braid)

### Sheath

SHF, MUD (halogen free, mud resistant)

## CABLE STANDARDS

NEK 606 S3/S7, IEC 60092-376

IEC 60092-350/351/359

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<sub>0</sub>/U)

150/250V

### Test Voltage

1.5kV

### Operating Temperature

-40°C to +90°C

### Minimum Bending Radius

10 x overall diameter

### Core Identification

Pairs: ● Black ● Blue

Triples: ● Black ● Blue ● Brown

### Sheath Colour

● Grey ● Blue

## DIMENSIONS

ELAND PART NO.	NO. OF PAIRS/TRIPLES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
ASHNBI0175**	1P	0.75	11.6	210
ASHNBI0275**	2P	0.75	17.1	330
ASHNBI0475**	4P	0.75	19.6	450
ASHNBI0775**	7P	0.75	23	610
ASHNBI0875**	8P	0.75	27.7	730
ASHNBI0975**	9P	0.75	27.7	810
ASHNBI1075**	10P	0.75	27.7	930
ASHNBI1275**	12P	0.75	29.8	960
ASHNBI1475**	14P	0.75	31.2	1300
ASHNBI1675**	16P	0.75	33.4	1450
ASHNBI1975**	19P	0.75	35.1	1750
ASHNBI2475**	24P	0.75	39.7	1710
ASHNBI1T75**	1T	0.75	12.1	230
ASHNBI2T75**	2T	0.75	18.7	390
ASHNBI4T75**	4T	0.75	21.5	540
ASHNBI7T75**	7T	0.75	25.4	800
ASHNBI8T75**	8T	0.75	30.7	910
ASHNBI9T75**	9T	0.75	30.7	1210
ASHNBI10T75**	10T	0.75	30.7	1380
ASHNBI12T75**	12T	0.75	33.6	1680
ASHNBI14T75**	14T	0.75	35.2	1950
ASHNBI16T75**	16T	0.75	37.6	1600
ASHNBI19T75**	19T	0.75	39.6	2510
ASHNBI24T75**	24T	0.75	44.7	2190
ASHNBI0115**	1P	1.5	13	240
ASHNBI0215**	2P	1.5	19.6	430
ASHNBI0415**	4P	1.5	22.6	610
ASHNBI0715**	7P	1.5	26.7	860
ASHNBI0815**	8P	1.5	32.8	1140
ASHNBI0915**	9P	1.5	32.8	1290
ASHNBI1015**	10P	1.5	32.8	1180
ASHNBI1215**	12P	1.5	35.4	1300
ASHNBI1415**	14P	1.5	37.6	1510
ASHNBI1615**	16P	1.5	39.7	1850
ASHNBI1915**	19P	1.5	41.8	2210
ASHNBI2415**	24P	1.5	47.2	2520
ASHNBI1T15**	1T	1.5	14	270
ASHNBI2T15**	2T	1.5	21.6	510
ASHNBI4T15**	4T	1.5	25	760
ASHNBI7T15**	7T	1.5	29.7	1,25
ASHNBI8T15**	8T	1.5	37	1090
ASHNBI9T15**	9T	1.5	37	1850
ASHNBI10T15**	10T	1.5	37	1700
ASHNBI12T15**	12T	1.5	39.9	1900
ASHNBI14T15**	14T	1.5	41.9	2280
ASHNBI16T15**	16T	1.5	44.8	2600
ASHNBI19T15**	19T	1.5	47.1	2990
ASHNBI24T15**	24T	1.5	52.8	2720

ELAND PART NO.	NO. OF PAIRS/TRIPLES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
ASHNBI0125**	1P	2.5	14.4	290
ASHNBI0225**	2P	2.5	21.4	560
ASHNBI0425**	4P	2.5	24.7	1080
ASHNBI0725**	7P	2.5	29.3	1850
ASHNBI0825**	8P	2.5	36.6	1920
ASHNBI0925**	9P	2.5	36.6	2040
ASHNBI1025**	10P	2.5	36.6	22310
ASHNBI1T25**	1T	2.5	15.1	410
ASHNBI2T25**	2T	2.5	23.6	760
ASHNBI4T25**	4T	2.5	27.4	1580
ASHNBI7T25**	7T	2.5	32.6	2480
ASHNBI8T25**	8T	2.5	40.7	2770
ASHNBI9T25**	9T	2.5	40.7	3080
ASHNBI10T25**	10T	2.5	40.7	3480

P = Pairs  
T = Triples

\*Eland Part No. shown above designate the gland colour (\*). For each colour substitute \* for a colour code as listed below. e.g. ASHNBI0175GR = 0.75mm<sup>2</sup> Grey

#### Colour Codes

COLOUR	Grey	Blue
CODE	GR	BL

## 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

## ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	1 CORE	2 CORE	3 AND 4 CORE	5 CORE
1	18	15	13	11
1.5	23	20	16	13
2.5	30	26	21	18

Conductor Temperature: 90°C  
Ambiente Temperature: 45°C

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.