

RFOU(i) 150/250V NEK 606 S1/S5 Cable



Eland Product Group: **ASH**

APPLICATION

A halogen free, low smoke, flame retardant, individually screened instrumentation and telecommunication cable for fixed installation in signal and communication applications. Suitable for installation in all marine environments such as muddy, wet, dry and oily conditions.

CONSTRUCTION

Conductor

Class 2 stranded tinned copper conductor

Insulation

Halogen free EPR (Ethylene Propylene Rubber)

Drain Wire

Stranded tinned copper

Individual Screen

Copper polyester tape

Bedding

Halogen free compound

Overall Screen

Tinned copper wire braid

Sheath

SHF, MUD (halogen free, mud resistant)

Note

Class 5 flexible conductor available on request

CABLE STANDARDS

NEK 606 S1/S5, IEC 60092-376, IEC 60092-350/351/359
BS EN/IEC 60332-1, BS EN/IEC 60332-3 Cat A, BS EN/IEC
60754-1 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 (U₀/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

● Grey ● Blue

DIMENSIONS

ELAND PART NO.	NO. OF PAIRS/TRIPLES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
ASHRI0175**	1P	0.75	10.3	160
ASHRI0275**	2P	0.75	14.9	300
ASHRI0475**	4P	0.75	16.9	420
ASHRI0775**	7P	0.75	19.6	580
ASHRI0875**	8P	0.75	23.4	710
ASHRI0975**	9P	0.75	23.4	800
ASHRI1075**	10P	0.75	23.4	870
ASHRI1275**	12P	0.75	25.1	900
ASHRI1475**	14P	0.75	26.3	1200
ASHRI1675**	16P	0.75	27.7	1100
ASHRI1975**	19P	0.75	29.1	1610
ASHRI2475**	24P	0.75	32.8	1590
ASHRI1T75**	1T	0.75	10.7	180
ASHRI2T75**	2T	0.75	16.2	360
ASHRI4T75**	4T	0.75	18.4	500
ASHRI7T75**	7T	0.75	21.5	760
ASHRI8T75**	8T	0.75	25.9	870
ASHRI9T75**	9T	0.75	25.9	1200
ASHRI10T75**	10T	0.75	25.9	1310
ASHRI12T75**	12T	0.75	27.8	1110
ASHRI14T75**	14T	0.75	29.1	1790
ASHRI16T75**	16T	0.75	30.8	1410
ASHRI19T75**	19T	0.75	32.7	2420
ASHRI24T75**	24T	0.75	36.9	2090
ASHRI0115**	1P	1.5	11.7	210
ASHRI0215**	2P	1.5	17.4	400
ASHRI0415**	4P	1.5	19.9	580
ASHRI0715**	7P	1.5	23.4	830
ASHRI0815**	8P	1.5	28.1	1110
ASHRI0915**	9P	1.5	28.1	1250
ASHRI1015**	10P	1.5	28.1	1130
ASHRI1215**	12P	1.5	30.3	1200
ASHRI1415**	14P	1.5	31.8	1400
ASHRI1615**	16P	1.5	34	1660
ASHRI1915**	19P	1.5	36.2	1970
ASHRI2415**	24P	1.5	40.4	2400
ASHRI1T15**	1T	1.5	12.2	240
ASHRI2T15**	2T	1.5	19	480
ASHRI4T15**	4T	1.5	21.9	710
ASHRI7T15**	7T	1.5	25.8	1210
ASHRI8T15**	8T	1.5	31.3	1060
ASHRI9T15**	9T	1.5	31.3	1840
ASHRI10T15**	10T	1.5	31.3	1650
ASHRI12T15**	12T	1.5	34.2	1800
ASHRI14T15**	14T	1.5	36.3	2100
ASHRI16T15**	16T	1.5	38.3	2400
ASHRI19T15**	19T	1.5	40.3	2850
ASHRI24T15**	24T	1.5	45.5	3600

ELAND PART NO.	NO. OF PAIRS/TRIPLES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
ASHRI0125**	1P	2.5	12.7	260
ASHRI0225**	2P	2.5	19.1	520
ASHRI0425**	4P	2.5	22	1000
ASHRI0725**	7P	2.5	26	1810
ASHRI0825**	8P	2.5	31.4	1890
ASHRI0925**	9P	2.5	31.4	2010
ASHRI10T15**	10T	1.5	31.3	1650
ASHRI12T15**	12T	1.5	34.2	1800
ASHRI14T15**	14T	1.5	36.3	2100
ASHRI16T15**	16T	1.5	38.3	2400
ASHRI19T15**	19T	1.5	40.3	2850
ASHRI24T15**	24T	1.5	45.5	3600
ASHRI0125**	1P	2.5	12.7	260
ASHRI0225**	2P	2.5	19.1	520
ASHRI0425**	4P	2.5	22	1000
ASHRI0725**	7P	2.5	26	1810
ASHRI0825**	8P	2.5	31.4	1890
ASHRI0925**	9P	2.5	31.4	2010
ASHRI1025**	10P	2.5	31.4	2280
ASHRI1T25**	1T	2.5	13.3	390
ASHRI2T25**	2T	2.5	21	730
ASHRI4T25**	4T	2.5	24.3	1510
ASHRI7T25**	7T	2.5	28.8	2400
ASHRI8T25**	8T	2.5	35.5	2740
ASHRI9T25**	9T	2.5	35.5	3060
ASHRI10T25**	10T	2.5	35.5	3410

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. ASHRI0175GR = 0.75mm² Grey

Colour Codes

COLOUR	Grey	Blue
CODE	GR	BL

CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C ohms/km	
	Class 2	Class 5
0.75	24.8	26.7
1	18.2	20
1.5	12.2	13.7
2.5	7.56	8.21

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	MULTI CORE		
					Inductance mH/m	60Hz	50Hz
						Reactance ohms/km	
1	18	15	13	11	0.393	0.480	0.123
1.5	23	20	16	13	0.369	0.139	0.116
2.5	30	26	21	18	0.337	0.127	0.106

Conductor Temperature: 90°C

Ambiente Temperature: 45°C