



NEK 606 BFOU(i) 250V S103 Cable



Eland Product Group: ASH

APPLICATION

A fire-resistant, flame-retardant, and halogen-free individually screened instrumentation cable designed for fixed installation in conditions where oil and gas rigs are usually working. Suitable for use in extreme temperatures, saline atmospheres, and where UV radiation, hydrocarbons, oils and drilling fluids and muds are present, meeting the requirements of NEK606.

CHARACTERISTICS

Voltage Rating U_0/U
150/250V

Maximum Operating Voltage U_{max}
300V

Temperature Range
+90°C

Minimum Bending Radius
4 x overall diameter

CONSTRUCTION

Conductor

Class 2 tinned annealed copper conductor

Insulation

Mica tape + EPR (Ethylene Propylene Rubber)
Halogen free compound

Individual Screen

Copper polyester tape + tinned copper drain wire

Inner Sheath

SHF2 extruded compound

Armour

TCWB (Tinned Copper Wire Braid)

Sheath

SHF2 H-M compound

Core Identification

Pair: ● Black ● Light Blue

Triple: ● Black ● Light Blue ● Brown

Multi pairs/triples: Progressively numbered

Sheath Colour

● Blue ● Grey

CABLE THIRD-PARTY ACCREDITATIONS

We supply DNV approved products

Cables are tested and certified by Det Norske Veritas (Norway)

We supply Lloyds Register approved products

Cables are tested and certified by Lloyds Register (UK)

We supply ABS approved products

Cables are tested and certified by American Bureau of Shipping (USA)

STANDARDS

NEK 606, IEC 60092-376, IEC 60092-360

Flame Retardancy IEC 60332-1-2 IEC 60332-3-22 CAT A

Fire Resistance IEC 60331-1 OR 2

Corrosivity IEC 60754-1 /2 IEC 60684-2

Smoke Density IEC 61034-1 /2

UV Resistance UL 1581 § 1200

Ozone Resistance IEC 60092.360

Mineral/Hydraulic Oils & Mud Resistance NEK 606

Impact & Cold Resistance CSA C 22.2 N° 0.3-09 & N° 38-18

THE CABLE LAB[®]

AN ISO/IEC 17025 AND IECEE CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.



SUSTAINABILITY COMMITMENT

We are on a journey to Net Zero.

We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable operations at: www.elandcables.com/company/about-us/esg-sustainability



REGULATORY COMPLIANCE

This cable meets the requirements of the RoHS Directive 2015/65/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab[®].





DIMENSIONS

ELAND PART NO.	NO. OF PAIRS/TRIPLES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL DIAMETER UNDER ARMOUR mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
ASHNBI0175**	1P	0.75	7.7	11.6	220
ASHNBI0110**	1P	1.0	7.9	11.8	230
ASHNBI0115**	1P	1.5	8.9	12.7	270
ASHNBI0125**	1P	2.5	9.9	13.7	320
ASHNBI1T75**	1T	0.75	8.1	12.0	240
ASHNBI1T10**	1T	1.0	8.4	12.2	255
ASHNBI1T15**	1T	1.5	9.4	13.3	305
ASHNBI1T25**	1T	2.5	10.5	15.1	400
ASHNBI0275**	2P	0.75	12.3	16.9	470
ASHNBI0210**	2P	1.0	12.7	17.4	505
ASHNBI0215**	2P	1.5	14.4	19.1	605
ASHNBI0225**	2P	2.5	16.1	21.6	735
ASHNBI2T75**	2T	0.75	13.5	18.2	550
ASHNBI2T10**	2T	1.0	13.9	18.6	585
ASHNBI2T15**	2T	1.5	15.8	21.3	715
ASHNBI3T75**	3T	0.75	14.3	19.0	630
ASHNBI3T10**	3T	1.0	14.7	20.2	675
ASHNBI3T15**	3T	1.5	16.7	22.3	825
ASHNBI0475**	4P	0.75	14.3	19.1	635
ASHNBI0410**	4P	1.0	14.7	20.3	685
ASHNBI0415**	4P	1.5	16.8	22.5	835
ASHNBI0425**	4P	2.5	18.8	24.6	1020
ASHNBI4T75**	4T	0.75	15.7	21.4	760
ASHNBI4T10**	4T	1.0	16.2	21.9	810
ASHNBI4T15**	4T	1.5	18.5	24.2	990
ASHNBI4T25**	4T	2.5	20.8	26.5	1225
ASHNBI0775**	7P	0.75	17.2	22.9	895
ASHNBI0710**	7P	1.0	17.7	23.6	975
ASHNBI0715**	7P	1.5	20.2	26.2	1190
ASHNBI7T75**	7T	0.75	19.6	25.6	1125
ASHNBI7T10**	7T	1.0	20.2	26.4	1220
ASHNBI7T15**	7T	1.5	23.2	29.4	1515
ASHNBI0875**	8P	0.75	18.3	24.2	1005
ASHNBI0810**	8P	1.0	18.8	25.0	1095
ASHNBI0815**	8P	1.5	21.6	28.0	1355
ASHNBI0825**	8P	2.5	24.3	30.7	1695
ASHNBI8T75**	8T	0.75	21.1	27.3	1270
ASHNBI8T10**	8T	1.0	21.7	28.1	1380
ASHNBI8T15**	8T	1.5	25.0	31.4	1735
ASHNBI8T25**	8T	2.5	28.6	35.0	2205
ASHNBI1275**	12P	0.75	21.8	28.2	1390
ASHNBI1210**	12P	1.0	22.5	28.9	1500
ASHNBI1215**	12P	1.5	26.3	32.9	1915
ASHNBI1225**	12P	2.5	29.7	36.3	2395

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ELAND PART NO.	NO. OF PAIRS/TRIPLES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL DIAMETER UNDER ARMOUR mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
ASHNBI12T75**	12T	0.75	24.7	31.3	1735
ASHNBI12T10**	12T	1.0	25.9	32.5	1905
ASHNBI12T15**	12T	1.5	29.8	36.8	2430
ASHNBI16T75**	16P	0.75	25.2	31.8	1795
ASHNBI16T10**	16P	1.0	26.0	32.6	1945
ASHNBI16T15**	16P	1.5	29.9	36.9	2440
ASHNBI16T75**	16T	0.75	28.5	35.3	2230
ASHNBI16T10**	16T	1.0	29.4	36.5	2340
ASHNBI16T15**	16T	1.5	33.9	41.7	3175
ASHNBI19T75**	19P	0.75	27.2	34.0	2070
ASHNBI19T10**	19P	1.0	28.0	34.8	2240
ASHNBI19T15**	19P	1.5	32.3	39.8	2885
ASHNBI19T75**	19T	0.75	30.8	38.3	2660
ASHNBI19T10**	19T	1.0	31.8	39.7	2915
ASHNBI19T15**	19T	1.5	36.7	44.6	3670
ASHNBI24T75**	24P	0.75	30.2	37.7	2590
ASHNBI24T10**	24P	1.0	31.1	39.1	2850
ASHNBI24T15**	24P	1.5	36.3	44.5	3595
ASHNBI24T75**	24T	0.75	34.2	42.2	3245
ASHNBI24T10**	24T	1.0	35.7	43.9	3580
ASHNBI24T15**	24T	1.5	41.2	49.8	4575
ASHNBI32T75**	32P	0.75	34.4	42.3	3295
ASHNBI32T10**	32P	1.0	35.9	44.0	3650
ASHNBI32T15**	32P	1.5	41.4	49.7	4565
ASHNBI32T75**	32T	0.75	39.4	47.8	4195
ASHNBI32T10**	32T	1.0	40.7	49.3	4570
ASHNBI32T15**	32T	1.5	47.1	55.8	5830

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 = 0.75mm² Grey

COLOUR CODES

COLOUR	Grey	Blue
CODE	GR	BL

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ELECTRICAL CHARACTERISTICS - PAIRS

NOMINAL CROSS SECTIONAL AREA mm ²	MAX. CONDUCTOR RESISTANCE Ω/km		REACTANCE Ω/km		MAX. CAPACITANCE μF/Km	NOMINAL INDUCTANCE μH/Km	IMPEDANCE @ 50 & 60 HZ Ω/km		MAX. L/R RATIO @ 1KHZ μH/ Ω
	20°C	90°C	50 HZ	60 HZ			20°C	90°C	
0.75	26.3	33.5	0.106	0.127	0.09	336	26.3	33.5	12.8
1.0	19.3	24.6	0.098	0.118	0.095	312	19.3	24.6	16.2
1.5	12.9	16.5	0.099	0.118	0.1	314	12.9	16.5	24.3

ELECTRICAL CHARACTERISTICS - TRIPLES

NOMINAL CROSS SECTIONAL AREA mm ²	MAX. CONDUCTOR RESISTANCE Ω/km		REACTANCE Ω/km		MAX. CAPACITANCE μF/Km	NOMINAL INDUCTANCE μH/Km	IMPEDANCE @ 50 & 60 HZ Ω/km		MAX. L/R RATIO @ 1KHZ μH/ Ω
	20°C	90°C	50 HZ	60 HZ			20°C	90°C	
0.75	26	33.5	0.106	0.127	0.09	336	26.3	33.5	12.8
1.0	19.3	24.6	0.098	0.118	0.095	312	19.3	24.6	16.2
1.5	12.9	16.5	0.099	0.118	0.1	314	12.9	16.5	24.3

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