NEK 606 BFOU(i) 250V S103 Cable

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 Uo/U
150/250V

Maximum Operating Voltage Umax
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.

ISO/IEC 17025 Accredited Testing Laboratory — UKAS TESTING
IECEE CBTL Accredited Testing Laboratory

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

SCIENCE BASED TARGETS — BUSINESS AMBITION FOR 1.5°C

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®.

RoHS REACH

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DIMENSIONS

PART NO.	NO. OF PAIRS/TRIPLES	NOMINAL CROSS SECTIONAL AREA mm²	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

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
ASHNBI1675**	16P	0.75	25.2	31.8	1795
ASHNBI1610**	16P	1.0	26.0	32.6	1945
ASHNBI1615**	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
ASHNBI1975**	19P	0.75	27.2	34.0	2070
ASHNBI1910**	19P	1.0	28.0	34.8	2240
ASHNBI1915**	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
ASHNBI2475**	24P	0.75	30.2	37.7	2590
ASHNBI2410**	24P	1.0	31.1	39.1	2850
ASHNBI2415**	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
ASHNBI3275**	32P	0.75	34.4	42.3	3295
ASHNBI3210**	32P	1.0	35.9	44.0	3650
ASHNBI3215**	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

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

COLOUR CODES

COLOUR	Grey	Blue
CODE	GR	BL

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ELECTRICAL CHARACTERISTICS - PAIRS

NOMINAL CROSS SECTIONAL AREA mm²	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 mm²	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