NEK606 BFOU(c) S104 250V Cable

Product Group: ASH

APPLICATION

A fire-resistant, flame-retardant, and halogen-free collectively 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
150 /250V

Maximum Operating Voltage U_{max}
300V

Temperature Rating
+90°C

Minimum Bending Radius
4 x Overall Diameter

CONSTRUCTION

Conductor
Class 2 Tinned Copper

Insulation
Mica Tape+ EPR HF (Ethylene Propylene Rubber Halogen Free) Compound

Collective Screen
CTS (Cu/PE Tape Screen) + TC (Tinned Copper) Drain Wire

Inner Sheath
Extruded Compound (Type SHF2)

Armour
TCWB (Tinned Copper Wire Braid)

Outer Sheath
Type 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 Retardant: 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 & Muds Resistant: NEK 606
Impact & Cold Resistance: CSA C 22.2 N° 0.3-09 & N° 38-18
Temperature Range: IEC 60092-360

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

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
ASHNBC0275**	2P	0.75	12.2	16.7	450
ASHNBC0210**	2P	1.0	12.5	17.3	485
ASHNBC0215**	2P	1.5	14.2	19.0	585
ASHNBC0225**	2P	2.5	15.9	21.5	715
ASHNBC2T75**	2T	0.75	13.3	18.1	525
ASHNBC1610**	2T	1.0	13.7	18.5	560
ASHNBC2T15**	2T	1.5	15.6	21.2	695
ASHNBC3T75**	3T	0.75	14.1	18.8	580
ASHNBC3T10**	3T	1.0	14.5	20.1	630
ASHNBC3T15**	3T	1.5	16.6	22.1	780
ASHNBC0475**	4P	0.75	14.1	18.9	580
ASHNBC0410**	4P	1.0	14.5	20.1	625
ASHNBC0415**	4P	1.5	16.6	22.3	785
ASHNBC0425**	4P	2.5	18.6	24.4	965
ASHNBC4T75**	4T	0.75	15.5	21.2	695
ASHNBC4T10**	4T	1.0	15.9	21.7	750
ASHNBC4T15**	4T	1.5	18.2	24.0	930
ASHNBC4T25**	4T	2.5	20.5	26.3	1160
ASHNBC0775**	7P	0.75	16.9	22.6	790
ASHNBC0710**	7P	1.0	17.4	23.3	865
ASHNBC0715**	7P	1.5	19.9	25.9	1080
ASHNBC7T75**	7T	0.75	19.3	25.3	995
ASHNBC7T10**	7T	1.0	19.9	26.1	1105
ASHNBC7T15**	7T	1.5	22.9	29.1	1390
ASHNBC0875**	8P	0.75	17.9	23.9	880
ASHNBC0810**	8P	1.0	18.5	24.7	970
ASHNBC0815**	8P	1.5	21.2	27.6	1230
ASHNBC0825**	8P	2.5	24.0	30.4	1555
ASHNBC8T75**	8T	0.75	20.7	26.9	1125
ASHNBC8T10**	8T	1.0	21.3	27.7	1245
ASHNBC8T15**	8T	1.5	24.6	31.0	1595
ASHNBC8T25**	8T	2.5	28.2	30.8	1730
ASHNBC1275**	12P	0.75	21.4	27.8	1195
ASHNBC1210**	12P	1.0	22.1	28.4	1305
ASHNBC1215**	12P	1.5	25.8	32.4	1720
ASHNBC1225**	12P	2.5	29.2	35.9	2180
ASHNBC12T75**	12T	0.75	24.2	30.8	1505
ASHNBC12T10**	12T	1.0	25.4	32.0	1700
ASHNBC12T15**	12T	1.5	29.3	36.3	2205
ASHNBC1675**	16P	0.75	24.6	31.2	1525
ASHNBC1610**	16P	1.0	25.4	32.0	1675
ASHNBC1615**	16P	1.5	29.3	36.4	2170
ASHNBC16T75**	16T	0.75	27.9	34.7	1915
ASHNBC16T10**	16T	1.0	28.8	35.8	2140
ASHNBC16T15**	16T	1.5	33.3	41.0	2865

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
ASHNBC1975**	19P	0.75	26.5	33.3	1745
ASHNBC1910**	19P	1.0	27.4	34.2	1920
ASHNBC1915**	19P	1.5	31.6	39.5	2555
ASHNBC19T75**	19T	0.75	30.1	37.6	2280
ASHNBC19T10**	19T	1.0	31.1	39.0	2565
ASHNBC19T15**	19T	1.5	36.1	44.0	3325
ASHNBC2475**	24P	0.75	29.5	36.6	2115
ASHNBC2410**	24P	1.0	30.5	38.4	2455
ASHNBC2415**	24P	1.5	35.6	43.8	3205
ASHNBC24T75**	24T	0.75	33.5	41.4	2790
ASHNBC24T10**	24T	1.0	35.0	43.1	3160
ASHNBC24T15**	24T	1.5	40.5	49.1	4130
ASHNBC3275**	32P	0.75	33.6	41.5	2760
ASHNBC3210**	32P	1.0	35.1	43.2	3115
ASHNBC3215**	32P	1.5	40.6	48.9	4025
ASHNBC32T75**	32T	0.75	38.6	46.9	3570
ASHNBC32T10**	32T	1.0	39.8	48.4	4000
ASHNBC32T15**	32T	1.5	46.2	54.9	5210

P = Pairs

T = Triples

*No. shown above designate the gland colour (*). For each colour substitute * for a colour code as listed below. e.g. ASHNBC0275GR = 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