NEK 606 RFOU(i) 250V S101 Cable

Product Group: ASH

APPLICATION

A 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
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
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®.

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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
ASHNRI0175**	1P	0.75	7.0	10.9	190
ASHNRI0110**	1P	1.0	7.6	11.5	215
ASHNRI0115**	1P	1.5	8.3	12.2	245
ASHNRI0125**	1P	2.5	9.1	13.0	290
ASHNRI1T75**	1T	0.75	7.4	11.2	210
ASHNRI1T10**	1T	1.0	8.0	11.9	235
ASHNRI1T15**	1T	1.5	8.8	12.6	275
ASHNRI1T25**	1T	2.5	9.7	13.7	330
ASHNRI0275**	2P	0.75	11.1	15.7	405
ASHNRI0210**	2P	1.0	12.1	16.8	470
ASHNRI0215**	2P	1.5	13.3	18.1	545
ASHNRI0225**	2P	2.5	14.8	20.3	655
ASHNRI2T75**	2T	0.75	12.1	16.9	475
ASHNRI2T10**	2T	1.0	13.2	18.0	540
ASHNRI2T15**	2T	1.5	14.6	20.1	640
ASHNRI3T75**	3T	0.75	12.8	17.5	535
ASHNRI3T10**	3T	1.0	14.0	18.7	610
ASHNRI3T15**	3T	1.5	15.5	21.0	735
ASHNRI0475**	4P	0.75	12.8	17.6	545
ASHNRI0410**	4P	1.0	14.0	18.8	620
ASHNRI0415**	4P	1.5	15.5	21.3	750
ASHNRI0425**	4P	2.5	17.2	23.0	910
ASHNRI4T75**	4T	0.75	14.0	19.0	630
ASHNRI4T10**	4T	1.0	15.4	21.1	740
ASHNRI4T15**	4T	1.5	17.0	22.8	885
ASHNRI4T25**	4T	2.5	19.0	24.8	1080
ASHNRI0775**	7P	0.75	15.3	21.1	765
ASHNRI0710**	7P	1.0	16.8	22.7	895
ASHNRI0715**	7P	1.5	18.6	24.6	1060
ASHNRI7T75**	7T	0.75	17.5	23.4	945
ASHNRI7T10**	7T	1.0	19.2	25.4	1105
ASHNRI7T15**	7T	1.5	21.4	27.6	1340
ASHNRI0875**	8P	0.75	16.3	22.2	860
ASHNRI0810**	8P	1.0	17.9	24.0	1000
ASHNRI0815**	8P	1.5	19.9	26.3	1205
ASHNRI0825**	8P	2.5	22.2	28.6	1485
ASHNRI8T75**	8T	0.75	18.7	24.9	1070
ASHNRI8T10**	8T	1.0	20.6	27.0	1250
ASHNRI8T15**	8T	1.5	22.9	29.3	1520
ASHNRI8T25**	8T	2.5	26.1	32.5	1940
ASHNRI1275**	12P	0.75	18.8	24.4	1130
ASHNRI1210**	12P	1.0	21.4	27.8	1365
ASHNRI1215**	12P	1.5	24.2	30.8	1700
ASHNRI1225**	12P	2.5	27.0	33.6	2110

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
ASHNRI12T75**	12T	0.75	21.9	28.5	1440
ASHNRI12T10**	12T	1.0	24.6	31.2	1720
ASHNRI12T15**	12T	1.5	27.4	34.4	2145
ASHNRI1675**	16P	0.75	22.4	29.0	1505
ASHNRI1610**	16P	1.0	24.7	31.3	1765
ASHNRI1615**	16P	1.5	27.5	34.5	2160
ASHNRI16T75**	16T	0.75	25.3	32.1	1860
ASHNRI16T10**	16T	1.0	27.9	34.9	2185
ASHNRI16T15**	16T	1.5	31.1	38.9	2800
ASHNRI1975**	19P	0.75	24.1	30.9	1740
ASHNRI1910**	19P	1.0	26.6	33.4	2030
ASHNRI1915**	19P	1.5	29.7	36.7	2470
ASHNRI19T75**	19T	0.75	27.3	34.3	2140
ASHNRI19T10**	19T	1.0	30.1	38.1	2625
ASHNRI19T15**	19T	1.5	33.6	41.6	3230
ASHNRI2475**	24P	0.75	26.7	33.7	2100
ASHNRI2410**	24P	1.0	29.5	37.0	2500
ASHNRI2415**	24P	1.5	33.3	41.5	3180
ASHNRI24T75**	24T	0.75	30.3	38.2	2700
ASHNRI24T10**	24T	1.0	33.9	42.0	3220
ASHNRI24T15**	24T	1.5	37.8	46.4	4025
ASHNRI3275**	32P	0.75	30.4	38.3	2760
ASHNRI3210**	32P	1.0	34.0	42.1	3305
ASHNRI3215**	32P	1.5	38.0	46.3	4025
ASHNRI32T75**	32T	0.75	34.9	43.2	3475
ASHNRI32T10**	32T	1.0	36.8	47.1	4100
ASHNRI32T15**	32T	1.5	43.1	51.9	5115

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. ASHNRI0175GR = 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