NEK606 RFOU P102 3.6/6kV Cable

Eland Product Group: ASH

APPLICATION

A flame-retardant and halogen-free medium voltage 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
3.6/6.6kV

Maximum Operating Voltage U_{max}
7.2kV

Temperature Rating
+90°C

Minimum Bending Radius
4 or 5 x depending on Overall Diameter

CONSTRUCTION

Conductor
Class 2 Annealed Tinned Copper

Semiconductors
HF (Halogen Free) extruded compound

Insulation
HEPR HF (Hard Ethylene Propylene Rubber Halogen Free) Compound

Screen
TCWB (Tinned Copper Wire Braid)

Bedding & Fillers
Fiberglass Tape + Fiberglass Fillers (Extruded) HEPR sheathed when 3 cores

Inner Sheath
SHF2 extruded compound

Armour
TCWB (Tinned Copper Wire Braid)

Outer Sheath
SHF2 H-M compound

Core Identification
1 core: ○ Off White
3 core: ○ Off White (coloured or numbered tapes)

Outer Sheath Colour
● Red

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 60092-360
Flame Retardant: IEC 60332-1-2, IEC 60332-3-22 Cat A
Halogen Content & 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.

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 CORES	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL BRAID CROSS SECTION mm²	NOMINAL DIAMETER UNDER ARMOUR mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
ASHNR6KV0125	1	25	10	20.6	25.8	1045
ASHNR6KV0135	1	35	10	21.7	28.7	1260
ASHNR6KV0150	1	50	10	22.6	29.6	1400
ASHNR6KV0170	1	70	10	24.2	31.5	1700
ASHNR6KV0195	1	95	10	25.9	33.4	2025
ASHNR6KV01120	1	120	10	27.4	34.9	2340
ASHNR6KV01150	1	150	10	28.6	36.3	2645
ASHNR6KV01185	1	185	16	30.6	39.1	3230
ASHNR6KV01240	1	240	16	33.4	42.1	3930
ASHNR6KV01300	1	300	25	37.3	46.5	4725
ASHNR6KV0325	3	25	25	40.1	47.7	2955
ASHNR6KV0335	3	35	25	43.4	53.0	3705
ASHNR6KV0350	3	50	35	45.4	55.2	4190
ASHNR6KV0370	3	70	35	48.8	58.8	5085
ASHNR6KV0395	3	95	35	53.2	63.6	6300
ASHNR6KV03120	3	120	35	56.8	67.4	7290
ASHNR6KV03150	3	150	35	59.4	70.2	8180
ASHNR6KV03185	3	185	35	64.3	75.5	9850

ELECTRICAL CHARACTERISTICS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	MAX. CONDUCTOR RESISTANCE Ω/km		MAX. REACTANCE Ω/km		NOMINAL CAPACITANCE µF/km	NOMINAL NDUCTANCE µH/km	IMPENDANCE Ω/km				MAXIMUM CURRENT IN FREE AIR Amps	SHORT CIRCUIT FOR 1S @ 90°C/250°C KA
		20°C	90°C	50 HZ	60 HZ			20°C 50 HZ	20°C 60 HZ	90°C 50 HZ	90°C 60 HZ		
1	25	0.734	0.936	0.131	0.157	0.289	426	0.75	0.75	0.95	0.95	117	3.58
1	35	0.529	0.675	0.124	0.149	0.317	395	0.54	0.55	0.69	0.69	145	5.01
1	50	0.391	0.499	0.12	0.144	0.34	382	0.41	0.42	0.51	0.52	179	7.15
1	70	0.27	0.344	0.113	0.135	0.388	358	0.29	0.3	0.36	0.37	231	10
1	95	0.195	0.249	0.106	0.127	0.438	338	0.22	0.23	0.27	0.28	283	13.6
1	120	0.154	0.196	0.103	0.124	0.477	328	0.19	0.2	0.22	0.23	331	17.2
1	150	0.126	0.161	0.098	0.118	0.516	313	0.16	0.17	0.19	0.2	384	21.5
1	185	0.1	0.128	0.096	0.115	0.569	305	0.14	0.15	0.16	0.17	441	26.5
1	240	0.0762	0.0972	0.092	0.11	0.617	292	0.12	0.13	0.13	0.15	524	34.3
1	300	0.0607	0.0774	0.089	0.107	0.647	284	0.11	0.12	0.12	0.13	608	42.9
3	25	0.734	0.936	0.11	0.134	0.289	355	0.74	0.75	0.94	0.95	105	3.58
3	35	0.529	0.675	0.106	0.128	0.317	339	0.54	0.54	0.68	0.69	130	5.01
3	50	0.391	0.499	0.103	0.124	0.34	328	0.4	0.41	0.51	0.51	159	7.15
3	70	0.27	0.344	0.098	0.117	0.388	311	0.29	0.29	0.36	0.36	203	10
3	95	0.195	0.249	0.093	0.112	0.438	296	0.22	0.22	0.27	0.27	246	13.6
3	120	0.154	0.196	0.09	0.108	0.477	287	0.18	0.19	0.22	0.22	286	17.2
3	150	0.126	0.161	0.088	0.105	0.516	280	0.15	0.16	0.18	0.19	330	21.5
3	185	0.1	0.128	0.085	0.102	0.569	271	0.13	0.14	0.15	0.16	377	26.5

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.

UK T 020 7241 8787 | F 020 7241 8700 | sales@elandcables.com | www.elandcables.com
International T +44 20 7241 8740 | F +44 20 7241 8700 | international@elandcables.com