NEK606 RFOU P113 18/30kV 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
18/30kV

Maximum Operating Voltage U_{max}
36kV

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)

Inner Sheath
SHF2 extruded compound

Armour
TCWB (Tinned Copper Wire Braid)

Outer Sheath
SHF2 H-M compound

Core Identification
Numbered Tapes (with coloured tapes on request)

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.

ISO/IEC 17025 Accredited Testing Laboratory
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

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
ASHNR30KV0150	1	50	16	33.7	42.4	2445
ASHNR30KV0170	1	70	25	35.3	44.3	2790
ASHNR30KV0195	1	95	25	37.0	46.0	3145
ASHNR30KV01120	1	120	25	38.5	47.7	3520
ASHNR30KV01150	1	150	25	39.7	49.1	3860
ASHNR30KV01185	1	185	25	41.7	51.1	4390
ASHNR30KV01240	1	240	35	45.2	55.0	5295
ASHNR30KV01300	1	300	35	48.7	58.7	6145
ASHNR30KV0350	3	50	35	70.8	82.6	7645
ASHNR30KV0370	3	70	35	74.3	86.3	8710
ASHNR30KV0395	3	95	35	77.9	90.3	9915
ASHNR30KV03120	3	120	35	81.2	93.8	11030
ASHNR30KV03150	3	150	35	83.8	96.6	12080

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	50	0.391	0.499	0.144	0.173	0.144	458	0.42	0.43	0.52	0.53	179	7.15
1	70	0.27	0.344	0.135	0.162	0.16	430	0.3	0.31	0.37	0.38	231	10
1	95	0.195	0.249	0.128	0.153	0.117	406	0.23	0.25	0.28	0.29	283	13.6
1	120	0.154	0.196	0.122	0.146	0.19	388	0.2	0.21	0.23	0.24	331	17.2
1	150	0.126	0.161	0.118	0.142	0.202	377	0.17	0.19	0.2	0.21	384	21.5
1	185	0.1	0.128	0.113	0.136	0.219	360	0.15	0.17	0.17	0.19	441	26.5
1	240	0.0762	0.0927	0.108	0.13	0.242	344	0.13	0.15	0.15	0.16	524	34.3
1	300	0.0607	0.0774	0.104	0.125	0.267	331	0.12	0.14	0.13	0.15	608	42.9
3	50	0.391	0.499	0.135	0.162	0.144	430	0.41	0.42	0.52	0.52	130	7.15
3	70	0.27	0.344	0.127	0.152	0.16	404	0.3	0.31	0.37	0.38	159	10
3	95	0.195	0.249	0.12	0.144	0.177	383	0.23	0.24	0.28	0.29	203	13.6
3	120	0.154	0.196	0.116	0.139	0.19	369	0.19	0.21	0.23	0.24	246	17.2
3	150	0.126	0.161	0.112	0.135	0.202	358	0.17	0.18	0.2	0.21	286	21.5

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.

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