



NEK606 RFOU P112 12/20kV 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

12/20kV

Maximum Operating Voltage U_{max}

24kV

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.



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[®].





DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL BRAID CROSS SECTION mm ²	NOMINAL DIAMETER UNDER ARMOUR mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
ASHNR20KV0135	1	35	10	27.7	35.2	1715
ASHNR20KV0150	1	50	10	28.6	36.3	1890
ASHNR20KV0170	1	70	16	30.2	38.7	2295
ASHNR20KV0195	1	95	16	31.9	40.5	2630
ASHNR20KV01120	1	120	16	33.5	42.2	2990
ASHNR20KV01150	1	150	25	35.5	44.5	3345
ASHNR20KV01185	1	185	25	36.7	45.7	3830
ASHNR20KV01240	1	240	25	39.2	48.4	4540
ASHNR20KV01300	1	300	25	43.7	53.3	5485
ASHNR20KV0335	3	35	35	57.5	68.3	5445
ASHNR20KV0350	3	50	35	59.7	70.2	5915
ASHNR20KV0370	3	70	35	63.5	74.7	7045
ASHNR20KV0395	3	95	35	67.1	78.7	8160
ASHNR20KV03120	3	120	35	70.4	82.2	9285
ASHNR20KV03150	3	150	35	73.0	85.0	10235

ELECTRICAL CHARACTERISTICS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	MAX. CONDUCTOR RESISTANCE Ω/km		MAX. REACTANCE Ω/km		NOMINAL CAPACITANCE μF/km	NOMINAL INDUCTANCE μH/km	IMPEDANCE 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	35	0.529	0.675	0.138	0.166	0.175	441	0.55	0.55	0.69	0.69	145	5.01
1	50	0.529	0.675	0.134	0.161	0.186	426	0.41	0.42	0.52	0.52	179	7.15
1	70	0.391	0.499	0.126	0.151	0.208	400	0.3	0.31	0.37	0.38	231	10
1	95	0.27	0.344	0.119	0.142	0.232	378	0.23	0.24	0.28	0.29	283	13.6
1	120	0.195	0.249	0.115	0.138	0.25	365	0.19	0.21	0.23	0.24	331	17.2
1	150	0.154	0.196	0.111	0.134	0.268	355	0.17	0.18	0.2	0.21	384	21.5
1	185	0.126	0.161	0.107	0.128	0.293	339	0.15	0.16	0.17	0.18	441	26.5
1	240	0.1	0.128	0.1	0.12	0.325	320	0.13	0.14	0.14	0.15	524	34.3
1	300	0.0762	0.0927	0.098	0.118	0.36	312	0.12	0.13	0.12	0.14	608	42.9
3	35	0.529	0.675	0.127	0.152	0.175	403	0.54	0.55	0.69	0.69	130	5.01
3	50	0.391	0.499	0.122	0.147	0.186	390	0.41	0.42	0.51	0.52	159	7.15
3	70	0.27	0.344	0.115	0.138	0.208	367	0.29	0.3	0.36	0.37	203	10
3	95	0.195	0.249	0.109	0.131	0.232	348	0.22	0.24	0.27	0.28	246	13.6
3	120	0.154	0.196	0.106	0.127	0.25	336	0.19	0.2	0.22	0.23	286	17.2
3	150	0.126	0.161	0.102	0.123	0.268	326	0.16	0.18	0.19	0.2	330	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.