NEK606 RFOU P104 8.7/15kV Cable

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
8.7/15kV

Maximum Operating Voltage U_{max}
17.5kV

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

FlexiCabos
Condutores Flexíveis Ltda.

DIMENSIONS

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
ASHNR15KV0125	1	25	10	24.6	30.3	1330
ASHNR15KV0135	1	35	10	25.7	33.2	1565
ASHNR15KV0150	1	50	10	26.6	34.1	1720
ASHNR15KV0170	1	70	10	28.2	35.9	2030
ASHNR15KV0195	1	95	10	29.9	37.7	2355
ASHNR15KV01120	1	120	16	31.4	40.0	2790
ASHNR15KV01150	1	150	16	32.6	41.4	3110
ASHNR15KV01185	1	185	16	34.7	43.6	3630
ASHNR15KV01240	1	240	25	37.2	46.4	4335
ASHNR15KV01300	1	300	25	40.7	50.1	5100
ASHNR15KV0325	3	25	35	50.4	58.8	4140
ASHNR15KV0335	3	35	35	52.7	63.1	4850
ASHNR15KV0350	3	50	35	55.1	65.7	5475
ASHNR15KV0370	3	70	35	58.5	69.3	6340
ASHNR15KV0395	3	95	35	62.8	74.0	7530
ASHNR15KV03120	3	120	35	66.0	77.4	8610
ASHNR15KV03150	3	150	35	68.6	80.2	9540

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	0.142	0.17	0.186	451	0.75	0.75	0.95	0.95	117	3.58
1	35	0.529	0.675	0.135	0.162	0.202	429	0.55	0.55	0.69	0.69	145	5.01
1	50	0.391	0.499	0.13	0.156	0.215	415	0.41	0.42	0.52	0.52	179	7.15
1	70	0.27	0.344	0.122	0.147	0.242	389	0.3	0.31	0.37	0.37	231	10
1	95	0.195	0.249	0.115	0.138	0.27	367	0.23	0.24	0.27	0.28	283	13.6
1	120	0.154	0.196	0.112	0.134	0.292	355	0.19	0.2	0.23	0.24	331	17.2
1	150	0.126	0.161	0.107	0.128	0.314	340	0.17	0.18	0.19	0.21	384	21.5
1	185	0.1	0.128	0.102	0.123	0.344	325	0.14	0.16	0.16	0.18	441	26.5
1	240	0.0762	0.0972	0.098	0.117	0.383	311	0.12	0.14	0.14	0.15	524	34.3
1	300	0.0607	0.0774	0.093	0.112	0.427	296	0.11	0.13	0.12	0.14	608	42.9
3	25	0.734	0.936	0.126	0.152	0.186	402	0.74	0.75	0.94	0.95	105	3.58
3	35	0.529	0.675	0.121	0.145	0.202	384	0.54	0.55	0.69	0.69	130	5.01
3	50	0.391	0.499	0.117	0.14	0.215	371	0.41	0.42	0.51	0.52	159	7.15
3	70	0.27	0.344	0.11	0.132	0.242	350	0.29	0.3	0.36	0.37	203	10
3	95	0.195	0.249	0.104	0.125	0.27	332	0.22	0.23	0.27	0.28	246	13.6
3	120	0.154	0.196	0.101	0.121	0.292	321	0.18	0.2	0.22	0.23	286	17.2
3	150	0.126	0.161	0.098	0.117	0.314	312	0.16	0.17	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.