

# NSHTÖU-K Crane Cable



Eland Product Group: A7N

## APPLICATION

For use in cold conditions as reeling cable for winding operation with tensile stress and/or torsional stress, and for connection and control cable in lifting devices, hoisting plants and transporting machines for heavy mechanical load. Suitable as drum and drag cable in dry, damp or wet rooms and in wet industrial conditions.

## CHARACTERISTICS

**Voltage Rating** (U<sub>o</sub>/U)  
0.6/1kV

**Temperature Rating**  
Fixed: -45°C to +60°C  
Flexed: -25°C to +60°C

**Minimum Bending Radius**  
Fixed: 4 x overall diameter  
Flexing: 5 x overall diameter

**Maximum Tensile Load**  
20 N/mm<sup>2</sup>

**Travel Speed**  
In festoon: up to 240m/min  
In reeling: up to 120m/min horizontal

## CONSTRUCTION

**Conductor**  
Class 5 flexible stranded tinned Copper

**Separator**  
Paper Tape or similar

**Insulation**  
HEPR (Hard Ethylene Propylene Rubber)

**Inner Sheath**  
Rubber compound

**Braiding**  
Anti-torsion textile braided embedded sheath

**Sheath**  
Rubber compound

**Core Identification**  
3 Core: ● Green/Yellow ● Blue ● Brown  
4 Core: ● Green/Yellow ● Brown ● Black ● Grey  
5 Core: ● Green/Yellow ● Blue ● Brown ● Black ● Grey  
From 6 cores ○ white cores with ● black numbers

**Sheath Colour**  
● Black or ● Yellow

## STANDARDS

DIN VDE 0250-814, DIN VDE 0250-1, DIN VDE 0298-3, DIN VDE 0472-501/502/503/508, DIN VDE 0472-303/401/402/602/615/803/804, VDE 0482-332-1-2, HD/EN/IEC 60811-2-1, DIN VDE 0473-811-2-1, EN 60228

Flame Retardant according to IEC/EN DIN EN 60332-1-2,

## THE CABLE LAB<sup>®</sup>

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](http://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<sup>®</sup>.





## DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL OVERALL DIAMETER mm		NOMINAL WEIGHT kg/km
			Minimum	Maximum	
A7NK030015	3	1.5	11.2	14.4	236
A7NK030025	3	2.5	12.6	16.1	305
A7NK030040	3	4	15.3	19.6	395
A7NK030060	3	6	16.4	20.9	525
A7NK03010	3	10	20.2	25.7	765
A7NK03016	3	16	22.5	28.6	1080
A7NK03025	3	25	27.7	35.0	1470
A7NK03035	3	35	31.7	40.0	2030
A7NK03050	3	50	37.1	46.8	2680
A7NK03070	3	70	42.5	53.5	3530
A7NK03095	3	95	48.2	60.6	4400
A7NK03120	3	120	51.6	64.9	5250
A7NK03150	3	150	56.2	70.7	7040
A7NK03185	3	185	63.3	79.4	8320
A7NK03240	3	240	69.9	87.7	5730
A7NK03025/16	3	25 + 16	30.4	38.4	2720
A7NK03035/16	3	35 + 16	34.0	42.8	3010
A7NK03050/25	3	50 + 25	38.6	48.6	3430
A7NK03095/50	3	95 + 50	53.1	66.7	5405
A7NK03120/70	3	120 + 70	55.5	69.7	6818
A7NK03150/70	3	150 + 70	64.0	80.4	9190
A7NK03185/95	3	185 + 95	68.8	86.4	9850
A7NK03050/325	3 + 3	50 + 25 / 3	37.1	46.8	2730
A7NK03070/335	3 + 3	70 + 35 / 3	42.5	53.5	3740
A7NK03120/370	3 + 3	120 + 70 / 3	51.6	64.9	6220
A7NK03150/370	3 + 3	150 + 70 / 3	56.2	70.7	7480
A7NK03185/395	3 + 3	185 + x 95 / 3	63.3	79.4	9020
A7NK03240/3120	3 + 3	240 + 120 / 3	69.9	87.7	11760
A7NK040015	4	1.5	12.1	15.5	274
A7NK040025	4	2.5	14.7	18.7	416
A7NK040040	4	4	16.6	21.1	550
A7NK040060	4	6	17.7	22.6	683
A7NK04010	4	10	22.0	27.8	1018
A7NK04016	4	16	25.5	32.3	1370
A7NK04025	4	25	31.6	39.8	1970
A7NK04035	4	35	34.5	43.6	2610
A7NK04050	4	50	40.5	51.0	3600
A7NK04070	4	70	46.5	58.6	5356
A7NK04095	4	95	52.7	66.2	7018
A7NK04120	4	120	58.4	73.3	8220
A7NK04150	4	150	63.4	79.7	8905
A7NK04185	4	185	71.2	89.4	10730
A7NK04240	4	240	78.2	98.2	13560



## CONDUCTORS

### Class 5 Flexible Copper Conductors for Single Core and Multi-Core Cables

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	MAXIMUM DIAMETER OF WIRES IN CONDUCTOR mm	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
		Metal-Coated Wires
1.5	0.26	13.7
2.5	0.26	8.21
4	0.31	5.09
6	0.31	3.39
10	0.41	1.95
16	0.41	1.24
25	0.41	0.795
35	0.41	0.565
50	0.41	0.393
70	0.51	0.277
95	0.51	0.21
120	0.51	0.164
150	0.51	0.132

The above table is in accordance with EN 60228

## ELECTRICAL CHARACTERISTICS

### Current Carrying Capacity and Mass Supportable

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	CURRENT CARRYING CAPACITY Amps				
	In Air	In Conduit	Reeled		
			1 Layer	2 Layer	3 Layer
1.5	25	24	19	15	12
2.5	32	30	24	18	15
4	43	41	33	25	20
6	56	53	42	32	26
10	78	74	59	45	36
16	104	99	79	60	49
25	138	131	105	80	64
35	170	162	130	99	79
50	212	202	162	123	99
70	263	250	200	153	123
95	316	301	241	184	147
120	370	352	282	215	172
150	424	404	323	246	198

For ambient temperature of 30°C

## DE-RATING FACTORS

AIR TEMPERATURE	30°C	35°C	40°C	45°C	50°C	55°C	60°C	65°C
DE-RATING FACTOR	1	0.96	0.91	0.87	0.82	0.76	0.71	0.65

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.