NSHTÖU Drum Reeling Cable

Eland Product Group: A5N

APPLICATION

For use in hoists, transporting machines and conveyors, in power chains, as drum and drag cables and as hawsers. Wherever cables are reeled, unreeled, guided by roller trains or similar. Oil and UV resistant to BS EN/IEC 60811-2-1.

CHARACTERISTICS

Voltage Rating (Uo/U)
0.6/1kV

Temperature Rating
Fixed: -40°C to +60°C
Flexed: -25°C to +60°C

Minimum Bending Radius
Fixed: 4 x overall diameter
Flexed: 5 x overall diameter

CONSTRUCTION

Conductor
Flexible Class 5 tinned copper conductor

Insulation
Rubber compound Type 3GI3

Filler
EPR (Ethylene Propylene Rubber) Type 3GI3, on a textile polyester support

Bedding
Rubber compound Type GM1b

Braiding
Polyester braid

Sheath
Rubber compound Type 5GM3

Core Identification
NSHTÖU-J
4 core: Green/Yellow ● Black ● Grey ● Brown
5 core: Green/Yellow ● Black ● Blue ● Brown ● Grey
Other sizes available
NSHTÖU-O
4 core: ● Grey ● Brown ● Black ● Blue
5 core: ● Grey ● Brown ● Black ● Blue ● Black

Sheath Colour
● Black

STANDARDS

VDE 0250

Flame retardant according to IEC/EN 60332-1-2

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 OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A5N0415	4	1.5	14.6	295
A5N04025	4	2.5	16.2	370
A5N04040	4	4	29.3	520
A5N04060	4	6	21.7	690
A5N0410	4	10	25.9	1025
A5N0416	4	16	29.1	1305
A5N0425	4	25	34.4	2070
A5N0435	4	35	38.6	2740
A5N0450	4	50	45	3790
A5N0470	4	70	51	5356
A5N0495	4	95	60.6	7018
A5N4120	4	120	63.5	8220
A5N4150	4	150	66.5	8905
A5N05040	5	4	20.5	640
A5N05060	5	6	23.2	855
A5N0510	5	10	27.8	1200
A5N05015	5	1.5	15.6	340
A5N05025	5	2.5	18.6	490
A5N0516	5	16	31.7	1745
A5N07015	7	1.5	17.6	420
A5N07025	7	2.5	20.8	615
A5N12015	12	1.5	21.3	630
A5N12025	12	2.5	24.9	895
A5N18015	18	1.5	24.8	895
A5N18025	18	2.5	28.2	1195
A5N24015	24	1.5	28	1100
A5N24025	24	2.5	33	1565
A5N30015	30	1.5	30.3	1345
A5N30025	30	2.5	34.6	183
A5N42015	42	1.5	35.2	1773
A5N45025	45	2.5	43.8	2863

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CONDUCTORS

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

NOMINAL CROSS SECTIONAL AREA mm²	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 mm²	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