



(N)GRDGOU-O/J 0.6/1kV Cable



Eland Product Group: A7S

APPLICATION

Power and control cable for festooning systems and connecting movable parts of container cranes, industrial machines, material handling equipment, under high mechanical stress and frequent bending.

CHARACTERISTICS

Voltage Rating U_0/U
0.6/1kV

Test Voltage
4kV

Maximum Torsional Stress: $\pm 90^\circ/m$
Maximum Tensile Load: 15N/mm²
Maximum Working Speed: 240m/min

Temperature Rating
Maximum Short-Circuit temperature: 250°C
Flexing: -30°C to + 90°C
Fixed: -50°C to + 90°C

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

CONSTRUCTION

Conductor
Class 5 Bare Flexible Copper

Insulation
Rubber Compound

Inner Sheath
EPR Rubber Compound (Ethylene Propylene Rubber)

Outer Sheath
Rubber Compound

Outer Sheath Colour
● Black

Note:
TCWB (Tinned Copper Wires Braid), 80% coverage available on request

STANDARDS

Based on DIN VDE 0250 Part 814, VDE 0295, IEC 60228, VDE 0270 Part 20 & Part 21,

ISO/IEC 17025 LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.



REGULATORY COMPLIANCE

This cable meets the requirements of the Low Voltage Directive 2014/35/EU and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.





(N)GRDGOU DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL DIAMETER OF CONDUCTOR mm	NOMINAL OVERALL DIAMETER mm	MAXIMUM TENSILE LOAD N	NOMINAL WEIGHT kg/km
A7S01025BK	1	25	6.1	12.4	375	350
A7S01035BK	1	35	7.2	14.3	525	480
A7S01050BK	1	50	8.9	16.4	750	650
A7S01070BK	1	70	10.6	18.0	1050	870
A7S01095BK	1	95	12.5	20.8	1425	1140
A7S01120BK	1	120	14.2	22.5	1800	1390
A7S01150BK	1	150	15.9	24.6	2250	1750
A7S01185BK	1	185	17.7	27.4	2775	2150
A7S03035BK	3	35 + 16	7.2	27.1	1575	1700
A7S03050BK	3	50 + 25	8.9	32.5	2250	2480
A7S03070BK	3	70 + 50	10.6	36.4	3150	3360
A7S040040BK	4	4	2.4	14.5	240	360
A7S040060BK	4	6	2.9	15.9	360	460
A7S04010BK	4	10	3.8	19.3	600	720
A7S04016BK	4	16	4.9	22.2	960	1020
A7S04025BK	4	25	6.1	27.2	1500	1550
A7S04035BK	4	35	7.2	29.8	2100	1990
A7S04050BK	4	50	8.9	36.3	3000	2920
A7S050040BK	5	4	2.4	15.7	300	440
A7S050060BK	5	6	2.9	17.7	450	600
A7S05010BK	5	10	3.8	21.1	750	910
A7S05016BK	5	16	4.9	24.3	1200	1300
A7S12G0015BK	12G	1.5	1.5	20.3	270	610
A7S12G0025BK	12G	2.5	1.9	23.7	450	860
A7S18G0015BK	18G	1.5	1.5	20.4	405	650
A7S18G0025BK	18G	2.5	1.9	23.9	675	940
A7S24G0015BK	24G	1.5	1.5	23.8	540	880
A7S24G0025BK	24G	2.5	1.9	28.7	900	1330
A7S30G0015BK	30G	1.5	1.5	27.1	675	1160
A7S30G0025BK	30G	2.5	1.9	32.9	1125	1760
A7S36G0015BK	36G	1.5	1.5	28.1	810	1280
A7S36G0025BK	36G	2.5	1.9	33.9	1350	1910

(N)GRDGOU SCREENED CABLES DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL DIAMETER OF CONDUCTOR mm	NOMINAL OVERALL DIAMETER mm	MAXIMUM TENSILE LOAD N	NOMINAL WEIGHT kg/km
A7S03S20005BK	3	(2x0,5)c	0.8	21.7	90	590
A7S03S20010BK	3	(2x1)c	1.2	26.2	90	880



CURRENT CARRYING CAPACITY

NOMINAL CROSS SECTIONAL AREA mm ²	LAYING ON THE FLOOR Amps	FREE IN AIR Amps	REELED Amps						
			1 Layer	2 Layer	3 Layer	4 Layer	5 Layer	6 Layer	7 Layer
1.5	24	25	19	15	12	10	9	6	5
2.5	30	32	24	18	15	13	11	8	7
4	41	43	33	25	20	17	16	11	9
6	53	56	42	32	26	22	20	14	12
10	74	78	59	45	36	31	28	20	16
16	99	104	79	60	49	42	38	27	22
25	131	138	105	80	64	55	50	35	29
35	162	170	130	99	79	68	62	44	36
50	202	212	162	123	99	85	77	55	44
70	250	263	200	153	123	105	95	68	55
95	301	316	241	184	147	126	114	81	66
120	352	370	282	215	172	148	134	95	77
150	404	424	323	246	198	170	154	109	89
185	461	484	369	281	226	194	175	124	101

Ambient temperature of 30°C

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.