

YSLTOE-J 300/500V Cable



Eland Product Group: A7R

APPLICATION

Control cable specifically designed for gravity-feed collector baskets of latest generation high-speed container cranes. In order to avoid cable damages, the cable must be installed into the basket in counter-clockwise direction, free of torsion. The basket diameter must be bigger than 30 x overall diameter).

CHARACTERISTICS

Voltage Rating Uo/U
300/500V

Test Voltage
2kV

Maximum Tensile Load (N/mm²): 13000
Maximum Working Speed (m/min): 160

Temperature Rating
Maximum Short-Circuit temperature: 150°C
Flexing: -20°C to +60°C

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

CONSTRUCTION

Central Support Element
Lead balls ropes stranded around, Kevlar[®] supports

Conductor
Class 5 Bare Flexible Copper

Insulation
Thermoplastic compound

Outer Sheath
Halogen free PUR (Polyurethane)

Outer Sheath Colour
● Black

Note:
Lay up of 6 cores bundles, with central lead ball rope, stranded around the central support.

-40°C version available on request

STANDARDS

Based on DIN VDE 0250 Part 405, VDE 0295, IEC 60228, VDE 0293, VDE 0298, IEC 60811-404, IEC 60811-403, IEC 60332-1-2

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™.





DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL DIAMETER OF CONDUCTOR mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A7R30G0025BK	30G	2.5	2	32.4	2060
A7R36G0025BK	36G	2.5	2	36.1	2670
A7R42G0025BK	42G	2.5	2	39.9	3330
A7R48G0025BK	48G	2.5	2	43.2	4260
A7R48G0010BK	48	1	1,3	32.7	2460

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	42	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
240	528	554	422	322	259	222	201	143	116

DE-RATING FACTORS

AMBIENT TEMPERATURE	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C	50°C	55°C	60°C	65°C	70°C	75°C	80°C
DE-RATING FACTOR	1.15	1.12	1.08	1.04	1.00	0.96	0.91	0.87	0.82	0.76	0.71	0.65	0.58	0.50	0.41

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.