



## (N)SSCHÖU-J 0.6/1kV Cable



Eland Product Group: A7J

### APPLICATION

Heavy duty tough rubber flexible cable for dynamic or static applications. It is suitable for installation inside or outside in dry, damp, wet and in hazardous environments. The overall screen provides a high level of electrical safety with EMC protection and makes the cable especially suitable for frequency converter controlled drives. This cable can be permanently submersed in water (fresh, salt, waste, storm, oily, sewage contaminated) to a depth of 100 metres. Suitable for indoor and outdoor applications.

### CHARACTERISTICS

**Voltage Rating** U<sub>0</sub>/U  
0.6/1kV

**Test Voltage:**

3kV

Max AC Voltage: 0.7/1.2kV

Max DC Voltage: 1.8kV

**Temperature Range**

Maximum Short Circuit Temperature: 250°C

Static Condition: -40°C to +80°C

Mobile Condition: -25°C to +80°C

**Minimum Bending Radius**

Fixed: 4 x overall diameter

Flexed: 5 x overall diameter

### CONSTRUCTION

**Phase Conductor**

Class 5 tinned copper conductor

**Earth Conductor**

Class 5 tinned copper conductor

**Insulation**

Rubber compound

**Screen**

TCWB (Tinned Copper Wire Braid)

**Inner Sheath**

Rubber compound

**Outer Sheath**

Rubber compound

**Sheath Colour**

● Yellow

### STANDARDS

VDE 0250 Part 812, VDE 0295, EN 60228

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

### THE CABLE LAB®

AN ISO/IEC 17025 AND IECIE 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)



SCIENCE  
BASED  
TARGETS

BUSINESS  
AMBITION FOR 1.5°C



### REGULATORY COMPLIANCE

This cable meets the requirements of the Low Voltage Directive 2014/35/EU, the RoHS Directive 2015/853/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 (PHASE + EARTH)	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>		CONDUCTOR DIAMETER mm	MINIMUM OVERALL DIAMETER mm	MAXIMUM OVERALL DIAMETER mm	NOMINAL CROSS SECTIONAL AREA OF SCREEN mm <sup>2</sup>	NOMINAL WEIGHT kg/km	MAXIMUM TENSILE LOAD N
		Phase Conductor	Earth Conductor						
A7J1016YW	3 + 3	16	2.5E	4.8	24.6	27.1	12	1170	720
A7J1025YW	3 + 3	25	4E	6.1	28.4	31.1	15	1650	1125
A7J1035YW	3 + 3	35	16/3E	7.2	31.9	33.6	22	2200	1575
A7J1050YW	3 + 3	50	25/3E	8.9	37.6	39.3	25	3110	2250
A7J1070YW	3 + 3	70	35/3E	10.6	41.4	44.2	30	3990	3150
A7J1095YW	3 + 3	95	50/3E	12.5	47.7	49.4	34	5080	4275
A7J1120YW	3 + 3	120	70/3E	14.2	51.6	53.4	38	6250	5400
A7J1150YW	3 + 3	150	70/3E	15.9	56.5	58.3	53	7450	6750
A7J1185YW	3 + 3	185	95/3E	17.7	62.4	64.4	59	9200	8325
A7J1240YW	3 + 3	240	120/3E	20.1	68.4	71.3	67	11700	10800

## CURRENT CARRYING CAPACITY

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	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
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

Ambient temperature of 30°C

## VOLTAGE DROP

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	POWER FACTOR			
	0.7	0.8	0.9	1
16	1.96	2.21	2.45	2.66
25	1.29	1.45	1.6	1.71
35	0.95	1.06	1.16	1.23
50	0.69	0.77	0.83	0.87
70	0.51	0.56	0.6	0.61
95	0.41	0.45	0.47	0.47
120	0.34	0.36	0.38	0.36
150	0.29	0.31	0.32	0.29
185	0.25	0.27	0.27	0.24
240	0.21	0.22	0.21	0.18

## 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.