

Variable Frequency Drive (VFD) EMC 2YSLCY Cable



Eland Product Group: **A7H**

APPLICATION

The cable has been developed for connecting motors to inverse rectifiers under consideration of EMC (electromagnetic compatibility) requirements. It may be used under medium mechanical stress for fixed installations and temporary movement. This cable offers a good resistance against oil and grease. Suitable for outdoor installation but not direct burial.

CONSTRUCTION

Conductor

Class 5 flexible copper conductor

Insulation

PE (Polyethylene)

Screen

AL-Foil (Aluminium-Foil)

Braid

TCWB (Tinned Copper Wire Braid)

Sheath

PVC (Polyvinyl Chloride)

CABLE STANDARDS

VDE 0482-332-1-2, BS EN/IEC 60332-1, BS EN/IEC 60811-2, BS EN 60228



The electrical and dimensional properties of this product are measured by the Technical and Quality Assurance department at the Eland Cables laboratory. Cable performance in respect of conductor resistance, construction quality (workmanship), dimensional consistency, and other parameters are verified to published standards and approved product drawings. Conformance to RoHS (Restriction of the use of Hazardous Substances) is determined and confirmed.

CHARACTERISTICS

Voltage Rating (U_o/U)

600/1000V

Test Voltage

4kV

Temperature Rating

Fixed: -30°C to +70°C

Flexed: -5°C to +70°C

Minimum Bending Radius

Fixed: 10 x overall diameter

Flexed: 25 x overall diameter

Core Identification

3 core + earth: ● Grey ● Brown ● Black ● Green/Yellow

4 core: ● Grey ● Brown ● Black ● Green/Yellow

Sheath Colour

● Black

DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²		NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
		Power Conductor	Earth Conductor		
A7H03015	3 + 3 earth	1.5	0.25	10.2	140
A7H03025	3 + 3 earth	2.5	0.5	11.4	220
A7H03040	3 + 3 earth	4	0.75	13.1	323
A7H03060	3 + 3 earth	6	1	14.9	420
A7H0310	3 + 3 earth	10	1.5	18.4	615
A7H0316	3 + 3 earth	16	2.5	21.6	819
A7H0325	3 + 3 earth	25	4	25.3	1402
A7H0335	3 + 3 earth	35	6	27.8	1718
A7H0350	3 + 3 earth	50	10	32.6	2399
A7H0370	3 + 3 earth	70	10	38.9	3173
A7H0395	3 + 3 earth	95	16	44.3	4162
A7H03120	3 + 3 earth	120	16	46.8	5253
A7H03150	3 + 3 earth	150	25	53.5	6128
A7H03185	3 + 3 earth	185	35	59.5	7450
A7H03240	3 + 3 earth	240	50	70	10800
A7H04015	4	1.5	-	10.4	154
A7H04025	4	2.5	-	12.3	229
A7H04040	4	4	-	14.5	339
A7H04060	4	6	-	16.8	451
A7H0410	4	10	-	19.7	667
A7H0416	4	16	-	22	892
A7H0425	4	25	-	27	1440
A7H0435	4	35	-	30.3	1861
A7H0450	4	50	-	35	2547
A7H0470	4	70	-	39.4	3404
A7H0495	4	95	-	46	4888
A7H04120	4	120	-	51.4	5703
A7H04150	4	150	-	58.8	7040
A7H04185	4	185	-	61.1	9150
A7H04240	4	240	-	70	12500

CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM DIAMETER OF WIRES IN CONDUCTOR mm	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
1.5	0.26	13.3
2.5	0.26	7.98
4	0.31	4.95
6	0.31	3.3
10	0.41	1.91
16	0.41	7.98
25	0.41	4.95
35	0.41	0.554
50	0.41	0.386
70	0.51	0.272
95	0.51	0.206
120	0.51	0.161
150	0.51	0.129
185	0.51	0.106
240	0.51	0.0801
300	0.51	0.0641

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm ²	CURRENT CARRYING CAPACITY IN AIR Amps
1.5	18
2.5	26
4	34
6	44
10	61
16	82
25	108
35	135
50	168
70	207
95	250
120	292
150	335
185	382
240	453
300	523

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.