Variable Frequency Drive (VFD) EMC 2YSL(st)CY 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.

CHARACTERISTICS

Voltage Rating Uo/U
0.6/1kV

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

CONSTRUCTION

Conductor
Class 5 flexible copper conductor

Insulation
PE (Polyethylene)

Screen
Aluminium-Foil

Braid
TCWB (Tinned Copper Wire Braid)

Sheath
PVC (Polyvinyl Chloride)

Core Identification
3 core + earth: Grey Brown Black Green/Yellow
4 core: Grey Brown Black Green/Yellow

Sheath Colour
Black

STANDARDS

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 is compliant with European Regulation EN 50575, the Construction Products Regulation.

This cable meets the requirements of the Low Voltage Directive 2014/35/EU, 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
		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

UK T 020 7241 8787 | F 020 7241 8700 | sales@elandcables.com | www.elandcables.com
International T +44 20 7241 8740 | F +44 20 7241 8700 | international@elandcables.com

CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm²	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

CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm²	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