

2XSLCYRY 0.6/1kV Cable



APPLICATION

Double screened low capacitance motor supply cable for frequency converters. The screen protects against external interference pulses and ensures an interference-free transmission. Suitable for outdoor application, direct burial, and for use on tray or in trunking.

CHARACTERISTICS

Voltage Rating

600/1000 V

Test Voltage

3500 V

Temperature Rating

Operating: -30°C to +90°C

Maximum Conductor Temperature During S.C: +250°C

Minimum Bending Radius

12 x Outer Diameter

CONSTRUCTION

Conductor

Class 5 Fine Stranded Annealed Copper

Insulation

XLPE (Cross Linked Polyethylene)

Overall Screen

PES & ALPES Tape

Braid

TCWB (Tinned Copper Wire Braid)

Inner Sheath

PVC Compound (Polyvinyl Chloride)

Armour

SWA (Galvanised Steel Wire Armour)

Outer Sheath

PVC Compound (Polyvinyl Chloride) ST1

Sheath Colour

● Black

STANDARDS

IEC 60502-1 , IEC 60228

Flame Retardant: IEC 60332-1

UV Resistance: ISO 4892-2 / ISO 4892-3

THE CABLE LAB[®]

AN ISO/IEC 17025 AND IECCE 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



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 2015/65/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab[®].



DIMENSIONAL & ELECTRICAL CHARACTERISTICS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL DIAMETER UNDER ARMOUR mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km	MAXIMUM CONDUCTOR RESISTANCE DC AT 20°C Ω/km
A7HSPA03015	3 + 3	1.5 + 0.25	10.80	16.80	530	13.3 + 76
A7HSPA03025	3 + 3	2.5 + 0.5	12.00	18.00	620	7.98 + 39
A7HSPA03040	3 + 3	4 + 0.75	13.00	19.00	707	4.95 + 26
A7HSPA03060	3 + 3	6 + 1	14.00	20.00	824	3.3 + 19.5
A7HSPA0310	3 + 3	10 + 1.5	15.70	22.40	1122	1.91 + 13.3
A7HSPA0316	3 + 3	16 + 2.5	18.10	24.80	1424	1.21 + 7.98
A7HSPA0325	3 + 3	25 + 4	21.40	28.20	1905	0.78 + 4.95
A7HSPA0335	3 + 3	35 + 6	26.50	35.10	2764	0.554 + 3.3
A7HSPA0350	3 + 3	50 + 10	29.40	38.20	3503	0.386 + 1.91
A7HSPA0370	3 + 3	70 + 10	35.50	45.80	5001	0.272 + 1.91
A7HSPA0395	3 + 3	95 + 16	40.00	50.60	6189	0.206 + 1.21
A7HSPA03120	3 + 3	120 + 16	43.50	54.30	7191	0.161 + 1.21
A7HSPA03150	3 + 3	150 + 25	48.90	60.10	8812	0.129 + 0.78
A7HSPA03185	3 + 3	185 + 35	54.80	66.40	10511	0.106 + 0.554
A7HSPA03240	3 + 3	240 + 50	60.80	75.20	14291	0.0801 + 0.386
A7HSPA04015	4	1.5	9.90	15.20	428	13.3
A7HSPA04025	4	2.5	10.90	17.00	577	7.98
A7HSPA04040	4	4	12.20	18.30	684	4.95
A7HSPA04060	4	6	13.60	19.70	814	3.3
A7HSPA0410	4	10	16.20	22.90	1185	1.91
A7HSPA0416	4	16	18.80	25.50	1523	1.21
A7HSPA0425	4	25	23.20	30.10	2112	0.78
A7HSPA0435	4	35	28.40	37.10	3042	0.554
A7HSPA0450	4	50	32.30	41.40	3870	0.386
A7HSPA0470	4	70	38.50	49.00	5607	0.272
A7HSPA0495	4	95	43.60	54.40	6837	0.206
A7HSPA04120	4	120	47.00	58.10	8083	0.161
A7HSPA04150	4	150	53.00	64.50	9749	0.129
A7HSPA04185	4	185	59.90	73.50	12462	0.106

CURRENT CARRYING CAPACITY

NOMINAL CROSS SECTIONAL AREA mm ²	REFERENCE METHOD A (ENCLOSED IN CONDUIT IN THERMALLY INSULATING WALL) A		REFERENCE METHOD B (ENCLOSED IN CONDUIT ON A WALL OR IN TRUNKING) A		REFERENCE METHOD C (CLIPPED DIRECT) A		REFERENCE METHOD E (FREE AIR OR ON A PERFORATED CABLE TRAY, HORIZONTAL OR VERTICAL) A	
	2 Cables, Single Phase A.C Or D.C	3 Or 4 Cables, Three Phase A.C	2 Cables, Single Phase A.C Or D.C	3 Or 4 Cables, Three Phase A.C	2 Cables, Single Phase A.C Or D.C	3 Or 4 Cables, Three Phase A.C	2 Cables, Single Phase A.C Or D.C	3 Or 4 Cables, Three Phase A.C
1.5	18.5	16.5	22	19.5	24	22	26	23
2.5	25	22	30	26	33	30	36	32
4	33	30	40	35	45	40	49	42
6	42	38	51	44	58	52	63	54
10	57	51	69	60	80	71	86	75
16	76	68	91	80	107	96	115	100
25	99	89	119	105	138	119	149	127
35	121	109	146	128	171	147	185	158

CURRENT CARRYING CAPACITY

NOMINAL CROSS SECTIONAL AREA mm ²	REFERENCE METHOD A (ENCLOSED IN CONDUIT IN THERMALLY INSULATING WALL) A		REFERENCE METHOD B (ENCLOSED IN CONDUIT ON A WALL OR IN TRUNKING) A		REFERENCE METHOD C (CLIPPED DIRECT) A		REFERENCE METHOD E (FREE AIR OR ON A PERFORATED CABLE TRAY, HORIZONTAL OR VERTICAL) A	
	2 Cables, Single Phase A.C Or D.C	3 Or 4 Cables, Three Phase A.C	2 Cables, Single Phase A.C Or D.C	3 Or 4 Cables, Three Phase A.C	2 Cables, Single Phase A.C Or D.C	3 Or 4 Cables, Three Phase A.C	2 Cables, Single Phase A.C Or D.C	3 Or 4 Cables, Three Phase A.C
50	145	130	175	154	209	179	225	192
70	183	164	221	194	269	229	289	246
95	220	197	265	233	328	278	352	298
120	253	227	305	268	382	322	410	346
150	290	259	334	300	441	371	473	399
185	329	295	384	340	506	424	542	456
240	386	346	459	398	599	500	641	538
300	442	396	532	455	693	576	741	621

Ambient Temperature: 30°C | Conductor Operating Temperature: 90°C

VOLTAGE DROP

NOMINAL CROSS SECTIONAL AREA mm ²	2 CABLES D.C mV/A/m	2 CABLES SINGLE-PHASE A.C. mV/A/m			3 OR 4 CABLES THREE-PHASE A.C. mV/A/m			INDUCTANCE μH/km	CAPACITANCE nF/km
		R	X	Z	R	X	Z		
1.5	31		31			27		366	70
2.5	19		19			16		340	80
4	12		12			10		339	90
6	7.9		7.9			6.8		321	90
10	4.7		4.7			4		301	120
16	2.9		2.9			2.5		285	140
		R	X	Z	R	X	Z		
25	1.85	1.85	0.16	0.19	1.6	0.14	1.65	280	140
35	1.35	1.35	0.151	1.35	1.15	0.135	1.15	271	150
50	0.98	0.99	0.155	1	0.86	0.1351	0.87	270	190
70	0.67	0.67	0.15	0.69	0.59	0.13	0.6	262	190
95	0.49	0.5	0.15	0.525	0.43	0.13	0.45	261	250
120	0.39	0.4	0.145	0.42	0.34	0.13	0.37	256	260
150	0.31	0.32	0.145	0.35	0.28	0.125	0.3	256	270
185	0.25	0.23	0.145	0.29	0.22	0.125	0.26	255	280
240	0.195	0.2	0.14	0.24	0.175	0.125	0.21	254	290
300	0.155	0.16	0.14	0.21	0.14	0.12	0.185	252	290

Conductor Operating Temperature: 90°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.