RZ1MZ1-K XLPE SWA LSZH Cable

Eland Product Group: A9R

APPLICATION

Multi-core LSZH cable with steel wire armour (SWA). Power and auxiliary fixed wiring cables for use in power networks, underground, outdoor and indoor applications and for use in cable ducting. For installation where fire, smoke emission and toxic fumes create a potential threat to life and equipment.

CHARACTERISTICS

Voltage Rating Uo/U
0.6/1kV

Temperature Rating
-40°C to +90°C

CONSTRUCTION

Conductor
Class 5 flexible copper conductor

Insulation
XLPE (Cross-Linked Polyethylene)

Bedding Layer
LSZH (Low Smoke Zero Halogen)

Armour
Galvanized steel wires

Sheath
LSZH (Low Smoke Zero Halogen)

Core Identification
1 core: Black
2 core: Blue Brown
3 core: Grey Black Brown
3 core including earth: Green/Yellow Blue Brown
4 core: Blue Brown Black Grey
4 core including earth: Green/Yellow Brown Black Grey
5 core including earth: Green/Yellow Blue Brown Black Grey

Outer Sheath Colour
Green

STANDARDS

UNE 21123-4, EN 60228, HD603,

Flame Retardant according to IEC/EN 60332-1, IEC/EN 60332-3
Low Smoke Zero Halogen according to IEC/EN 60754-1/2, IEC/EN 61034-1/2

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.

UKAS ISO/IEC 17025 Accredited Testing Laboratory 8578

bsi. ISO 9001 Quality Management FS 672069 | ISO 14001 Environmental Management EMS 672067 | ISO 45001 Occupational Health and Safety Management OHS 672066

REGULATORY COMPLIANCE

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

CPR COMPLIANT EN 50575

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™.

bsi. RoHS Trusted KITEMARK™ KM 634267 | RoHS | CE

DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL DIAMETER UNDER ARMOUR mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km	MINIMUM BENDING RADIUS mm
A9RM02015	2	1.5	7.6	12.5	290	125
A9RM02025	2	2.5	8.4	13.3	335	135
A9RM02040	2	4	9.5	14.4	400	145
A9RM02060	2	6	10.6	15.5	480	155
A9RM0210	2	10	12.5	18.1	720	185
A9RM0216	2	16	14.5	20.1	920	205
A9RM0225	2	25	17.8	24.2	1370	245
A9RM0235	2	35	20	26.4	1680	265
A9RM0250	2	50	19.4	26.1	1835	265
A9RM0270	2	70	23.2	29.9	2420	300
A9RM0295	2	95	25.8	33.6	3175	340
A9RM02120	2	120	29.2	37.4	3920	375
A9RM02150	2	150	32.4	40.9	4680	410
A9RM02185	2	185	35.6	45.4	5900	455
A9RM02240	2	240	41.1	51.4	7485	515
A9RM03015	3	1.5	8	13	320	130
A9RM03025	3	2.5	8.9	13.9	375	140
A9RM03040	3	4	10.1	15	450	150
A9RM03060	3	6	11.3	16.2	545	165
A9RM0310	3	10	13.3	18.9	830	190
A9RM0316	3	16	15.5	21.1	1075	215
A9RM0325	3	25	19.1	25.6	1640	255
A9RM0335	3	35	21.7	28.2	2050	285
A9RM0350	3	50	23.3	30.9	2580	310
A9RM0370	3	70	27.5	35.2	3365	355
A9RM0395	3	95	30.6	38.8	4170	390
A9RM03120	3	120	34.4	42.9	5070	430
A9RM03150	3	150	38.5	48.3	6530	485
A9RM03185	3	185	42.5	52.7	7735	530
A9RM03240	3	240	48.7	59.4	9780	595
A9RM04015	4	1.5	8.9	14	365	140
A9RM04025	4	2.5	9.9	15	435	150
A9RM04040	4	4	11.2	16.3	530	165
A9RM04060	4	6	12.5	18.3	735	185
A9RM0410	4	10	14.8	20.6	990	210
A9RM0416	4	16	17.3	23.7	1405	240
A9RM0425	4	25	21.3	27.8	1960	280
A9RM0435	4	35	24	30.8	2480	310
A9RM0450	4	50	25.7	33.4	3175	335
A9RM0470	4	70	30.4	38.6	4235	390
A9RM0495	4	95	33.9	42.3	5245	425
A9RM04120	4	120	38.6	48.4	6900	485
A9RM04150	4	150	42.8	53	8295	530
A9RM04185	4	185	47.1	57.7	9850	580
A9RM04240	4	240	54.2	65.2	12560	655
A9RM05015	5	1.5	9.8	14.9	415	150
A9RM05025	5	2.5	10.9	16.7	570	170
A9RM05040	5	4	12.4	18.2	705	185
A9RM05060	5	6	13.9	19.7	850	200

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

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL DIAMETER UNDER ARMOUR mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km	MINIMUM BENDING RADIUS mm
A9RM0510	5	10	16.5	22.8	1265	230
A9RM0516	5	16	19.2	25.6	1665	260
A9RM0525	5	25	23.8	30.6	2340	310
A9RM0535	5	35	26.8	33.7	2970	340
A9RM0550	5	50	31.3	39.3	4180	395
A9RM0570	5	70	37.1	45.6	5580	460
A9RM0595	5	95	41.6	51.5	7390	515

CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm²	MAXIMUM DIAMETER OF WIRES IN CONDUCTOR mm	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C Amps
		Plain Wire
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	1.21
25	0.41	0.78
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

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm²	CURRENT CARRYING CAPACITY Amps				VOLTAGE DROP V/A/km	
	2 Core Cables		3, 4 and 5 Core Cables		Cos ø 0.8	Cos ø 1
	In Air at 40°C	In Ground at 25°C	In Air at 40°C	In Ground at 25°C		
1.5	24	27	20	23	23.61	29.374
2.5	33	36	26	30	14.2	17.62
4	45	46	36	38	8.839	10.93
6	57	58	46	48	5.919	7.288
10	79	77	65	64	3.458	4.218
16	105	100	87	82	2.218	2.672
25	123	128	110	106	1.458	1.723
35	154	154	137	129	1.057	1.224
50	188	183	167	152	0.759	0.852
70	244	224	214	187	0.556	0.601
95	296	265	259	222	0.438	0.455
120	348	302	301	253	0.358	0.356
150	404	342	353	286	0.302	0.285
185	464	383	391	320	0.262	0.234
240	552	442	468	370	0.215	0.177