

NA2XRH Aluminium Conductor IEC 60502-1 XLPE SWA LSZH 0.6/1kV Cable



Eland Product Group: D9L

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 U₀/U
0.6/1kV

Maximum Operating Temperature
Fixed: -5°C to +90°C

Minimum Bending Radius
15 x overall diameter

CONSTRUCTION

Conductor
Class 2 stranded aluminium conductor

Insulation
XLPE (Cross-Linked Polyethylene)

Filler
LSZH (Low Smoke Zero Halogen)

Armour
Single core: AWA (Aluminium wire armour)
All other sizes: SWA (Galvanized round steel wire)

Sheath
LSZH (Low Smoke Zero Halogen)

Core Identification
2 core: ● Blue ● Brown
3 core: ● Brown ● Black ● Grey
4 core: ● Brown ● Black ● Grey ● Blue
5 core: ● Brown ● Black ● Grey ● Black ● Blue

Sheath Colour
● Black

STANDARDS

Generally to BS 6724, IEC 60502-1, EN 50267-2-1, EN 60228

Flame Retardant according to IEC/EN 60332-1-2, IEC/EN 60332-3-24
Low Smoke Zero Halogen according to IEC/EN 60754-1/2, IEC/EN 61034-1/2

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 2015/853/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	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL INSULATION THICKNESS mm	NOMINAL OUTER SHEATH THICKNESS mm	NOMINAL OUTER DIAMETER mm	NOMINAL WEIGHT kg/km
D9L01070	1	70	1.1	1.3	19.6	525
D9L01095	1	95	1.1	1.3	21.1	620
D9L01120	1	120	1.2	1.3	22.7	730
D9L01150	1	150	1.4	1.4	26.2	935
D9L01185	1	185	1.6	1.5	27.7	1085
D9L01240	1	240	1.7	1.5	30.3	1310
D9L01300	1	300	1.8	1.6	33	1560
D9L01400	1	400	2	1.7	36.9	1995
D9L01500	1	500	2.2	1.7	40.3	2375
D9L01630	1	630	2.4	1.8	44.8	2963
D9L02025	2	25	0.9	1.3	23.2	850
D9L02035	2	35	0.9	1.4	26.4	1165
D9L02050	2	50	1	1.6	29.8	1390
D9L02070	2	70	1.1	1.7	34.3	1925
D9L02095	2	95	1.1	1.7	37.3	2270
D9L02150	2	150	1.4	1.8	45.9	2945
D9L02185	2	185	1.6	2	50	3990
D9L02240	2	240	1.7	2.1	55.4	4760
D9L02300	2	300	1.8	2.1	60.8	5600
D9L03025	3	25	0.9	1.4	25.4	1100
D9L03035	3	35	0.9	1.5	28	1300
D9L03050	3	50	1	1.5	28.1	1370
D9L03070	3	70	1.1	1.6	31.6	1700
D9L03095	3	95	1.1	1.7	35.6	2215
D9L03120	3	120	1.2	1.8	39	2610
D9L03150	3	150	1.4	1.9	43.1	3485
D9L03185	3	185	1.6	2	47.1	4065
D9L03240	3	240	1.7	2.1	52	4900
D9L03300	3	300	1.8	2.2	57.1	5750
D9L03400	3	400	2	2.4	64.3	7105
D9L04025	4	25	0.9	1.4	27.4	1265
D9L04035	4	35	0.9	1.5	30.3	1520
D9L04050	4	50	1	1.6	31.8	1655
D9L04070	4	70	1.1	1.7	36.6	2320
D9L04095	4	95	1.1	1.8	39.3	2755
D9L04120	4	120	1.2	1.9	44.4	3635
D9L04150	4	150	1.4	2	48.9	4280
D9L04185	4	185	1.6	2.1	53.7	5025
D9L04240	4	240	1.7	2.2	59.7	6105
D9L04300	4	300	1.8	2.4	65.3	7315
D9L05025	5	25	0.9	1.5	29.7	1530
D9L05035	5	35	0.9	1.6	32.9	1830
D9L05050	5	50	1	1.7	37.8	2535
D9L05070	5	70	1.1	1.8	43	3250

Laying conditions at trefoil formation are as below:

-Soil thermal resistivity 120°C.Cm/Watt

-Burial depth 0.5 m

-Ground temperature 15 °C

-Air temperature 25 °C

-Frequency 50 Hz



ELECTRICAL CHARACTERISTICS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM CONDUCTOR DC RESISTANCE AT 20°C	MAXIMUM CONDUCTOR AC RESISTANCE AT 50 Hz	CONDUCTOR S.C.C For 1 second KA	CURRENT RATING		
					Laid in ground	Laid in duct	Laid in free air
1	70	0.443	0.565	6.61	220	171	236
1	95	0.32	0.408	8.98	262	205	288
1	120	0.253	0.323	11.34	298	235	333
1	150	0.206	0.263	14.17	333	265	378
1	185	0.164	0.209	17.48	376	301	436
1	240	0.125	0.159	22.68	433	352	516
1	300	0.1	0.128	28.35	487	401	592
1	400	0.0778	0.099	37.79	549	459	688
1	500	0.0605	0.077	47.24	619	526	795
1	630	0.0469	0.06	59.52	693	598	911
2	25	1.2	1.53	3.58	139	103	131
2	35	0.868	1.107	5.01	167	123	160
2	50	0.641	0.817	7.15	199	148	195
2	70	0.443	0.565	10.02	243	184	244
2	95	0.32	0.408	13.59	292	222	300
2	150	0.206	0.263	21.46	372	288	394
2	185	0.164	0.209	26.47	487	387	537
2	240	0.125	0.159	34.34	549	442	617
2	300	0.1	0.128	42.93	623	508	714
3	25	1.2	1.53	2.36	113	84	108
3	35	0.868	1.107	3.31	136	101	131
3	50	0.641	0.817	4.72	172	124	168
3	70	0.443	0.565	6.61	212	155	214
3	95	0.32	0.408	8.98	255	188	263
3	120	0.253	0.323	11.34	291	216	307
3	150	0.206	0.263	14.17	323	246	349
3	185	0.164	0.209	17.48	366	281	402
3	240	0.125	0.159	22.68	426	328	478
3	300	0.1	0.128	28.35	479	375	550
3	400	0.0778	0.099	37.79	548	434	647
4	25	1.2	1.53	3.58	139	103	131
4	35	0.868	1.107	5.01	167	123	160
4	50	0.641	0.817	7.15	199	148	195
4	70	0.443	0.565	10.02	243	184	244
4	95	0.32	0.408	13.59	292	222	300
4	120	0.253	0.323	17.17	372	288	394
4	150	0.206	0.263	21.46	420	332	455
4	185	0.164	0.209	26.47	487	387	537
4	240	0.125	0.159	34.34	549	442	617
4	300	0.1	0.128	42.93	623	508	714
5	25	1.2	1.53	3.58	115	86	110
5	35	0.868	1.107	5.01	138	105	135
5	50	0.641	0.817	7.15	178	130	177
5	70	0.443	0.565	10.02	219	162	226

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.