



NA2XRY Aluminium Conductor IEC 60502-1 XLPE SWA PVC 0.6/1kV Cable



Eland Product Group: DS9

APPLICATION

Can be used in underground installations since the cable is very suitable for mechanical compulsion and harsh operating conditions. Suitable for comparatively high ambient temperature due to high maximum permissible conductor temperature.

CHARACTERISTICS

Voltage Rating U₀/U
0.6/1kV

Temperature Range
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
PVC (Polyvinyl Chloride)

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

Sheath
PVC (Polyvinyl Chloride)

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

Sheath Colour
● Black

STANDARDS

Generally to BS 5467, IEC 60502-1

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 mm ²	NOMINAL INSULATION THICKNESS mm	NOMINAL OUTER SHEATH THICKNESS mm	NOMINAL OUTER DIAMETER mm	NOMINAL WEIGHT kg/km
D9S01070	1	70	1.1	1.3	19.6	525
D9S01095	1	95	1.1	1.3	21.1	620
D9S01120	1	120	1.2	1.3	22.7	730
D9S01150	1	150	1.4	1.4	26.2	935
D9S01185	1	185	1.6	1.5	27.7	1085
D9S01240	1	240	1.7	1.5	30.3	1310
D9S01300	1	300	1.8	1.6	33	1560
D9S01400	1	400	2	1.7	36.9	1995
D9S01500	1	500	2.2	1.7	40.3	2375
D9S01630	1	630	2.4	1.8	44.8	2963
D9S02025	2	25	0.9	1.3	23.2	850
D9S02035	2	35	0.9	1.4	26.4	1165
D9S02050	2	50	1	1.6	29.8	1390
D9S02070	2	70	1.1	1.7	34.3	1925
D9S02095	2	95	1.1	1.7	37.3	2270
D9S02150	2	150	1.4	1.8	45.9	2945
D9S02185	2	185	1.6	2	50	3990
D9S02240	2	240	1.7	2.1	55.4	4760
D9S02300	2	300	1.8	2.1	60.8	5600
D9S03025	3	25	0.9	1.4	25.4	1100
D9S03035	3	35	0.9	1.5	28	1300
D9S03050	3	50	1	1.5	28.1	1370
D9S03070	3	70	1.1	1.6	31.6	1700
D9S03095	3	95	1.1	1.7	35.6	2215
D9S03120	3	120	1.2	1.8	39	2610
D9S03150	3	150	1.4	1.9	43.1	3485
D9S03185	3	185	1.6	2	47.1	4065
D9S03240	3	240	1.7	2.1	52	4900
D9S03300	3	300	1.8	2.2	57.1	5750
D9S03400	3	400	2	2.4	64.3	7105
D9S04025	4	25	0.9	1.4	27.4	1265
D9S04035	4	35	0.9	1.5	30.3	1520
D9S04050	4	50	1	1.6	31.8	1655
D9S04070	4	70	1.1	1.7	36.6	2320
D9S04095	4	95	1.1	1.8	39.3	2755
D9S04120	4	120	1.2	1.9	44.4	3635
D9S04150	4	150	1.4	2	48.9	4280
D9S04185	4	185	1.6	2.1	53.7	5025
D9S04240	4	240	1.7	2.2	59.7	6105
D9S04300	4	300	1.8	2.4	65.3	7315
D9S05025	5	25	0.9	1.5	29.7	1530
D9S05035	5	35	0.9	1.6	32.9	1830
D9S05050	5	50	1	1.7	37.8	2535
D9S05070	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.