



AS/NZS 5000.1 Traffic Signal Cable Orange 0.6/1kV XLPE SWA PVC



Eland Product Group: A9S

APPLICATION

SWA Cable - power and auxiliary control cables for use in power networks, underground, outdoor and indoor applications and for use in cable ducting.

CHARACTERISTICS

Voltage Rating Uo/U
0.6/1kV

Test Voltage
3.5kV

Temperature Rating
Operating: +90°C
Short Circuit Temperature: +250°C

Minimum Bending Radius
12 x overall diameter

CONSTRUCTION

Conductor
Class 2 circular stranded or circular compacted Copper

Insulation
XLPE (Cross-Linked Polyethylene) Type X-90

Inner Sheath
PVC (Polyvinyl Chloride) Type 5V90

Armour
Galvanized Steel Wires

Outer Sheath
PVC (Polyvinyl Chloride) Type 5V90 - UV resistant

Sheath Colour
● Black

STANDARDS

Generally to AS/NZS 5000.1, BS 5467, AS/NZS 3808, AS/NZS 1125

Flame Retardant according to IEC/EN 60332-1-2

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



REGULATORY COMPLIANCE

This cable meets the requirements of 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™.





DIMENSIONS

ELAND PART NO.	NO. OF CORES (PHASE + EARTH)	NOMINAL CROSS SECTIONAL AREA mm ²		NOMINAL THICKNESS OF INSULATION mm		NOMINAL THICKNESS OF OUTER SHEATH mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
		Phase Conductor	Earth Conductor	Phase Conductor	Earth Conductor			
A9SWAE03015	3	1.5	-	0.6	-	1.1	11.4	275
A9SWAE03025	3	2.5	-	0.7	-	1.2	13.2	366
A9SWAE03040	3	4	-	0.7	-	1.2	14.3	447
A9SWAE03060	3	6	-	0.7	-	1.2	15.6	549
A9SWAE0310	3	10	-	0.7	-	1.2	17.8	822
A9SWAE0316	3	16	-	0.7	-	1.3	20.1	1090
A9SWAE0325	3	25	-	0.9	-	1.4	24.4	1670
A9SWAE0335	3	35	-	0.9	-	1.4	26.8	2084
A9SWAE0350	3	50	-	1	-	1.6	31.0	2775
A9SWAE0370	3	70	-	1.1	-	1.7	34.9	3650
A9SWAE0395	3	95	-	1.1	-	1.8	39.8	4945
A9SWAE04015	3 + 1	1.5	1.5	0.7	0.7	1.8	14.5	393
A9SWAE04025	3 + 1	2.5	2.5	0.7	0.7	1.8	15.6	465
A9SWAE04040	3 + 1	4	2.5	0.7	0.7	1.8	16.4	546
A9SWAE04060	3 + 1	6	2.5	0.7	0.7	1.8	17.9	733
A9SWAE0410	3 + 1	10	4	0.7	0.7	1.8	19.8	939
A9SWAE0416	3 + 1	16	6	0.7	0.7	1.8	21.9	1224
A9SWAE0425	3 + 1	25	6	0.9	0.7	1.8	25.7	1810
A9SWAE0435	3 + 1	35	10	0.9	0.7	1.8	28.1	2267
A9SWAE0450	3 + 1	50	16	1	0.7	1.9	31.7	2884
A9SWAE0470	3 + 1	70	25	1.1	0.9	2.1	37.1	4119
A9SWAE0495	3 + 1	95	25	1.1	0.9	2.2	40.8	5137
A9SWAE04120	3 + 1	120	35	1.2	0.9	2.3	44.6	6225
A9SWAE04150	3 + 1	150	50	1.4	1.0	2.5	51	8064
A9SWAE04185	3 + 1	185	70	1.6	1.1	2.6	55.5	9725
A9SWAE04240	3 + 1	240	95	1.7	1.1	2.8	62.4	12265
A9SWAE04300	3 + 1	300	120	1.8	1.2	3.0	67.4	14742
A9SWAE05015	4 + 1	1.5	1.5	0.7	0.7	1.8	15.4	441
A9SWAE05025	4 + 1	2.5	2.5	0.7	0.7	1.8	16.6	529
A9SWAE05040	4 + 1	4	2.5	0.7	0.7	1.8	18.3	746
A9SWAE05060	4 + 1	6	2.5	0.7	0.7	1.8	19.2	846
A9SWAE0510	4 + 1	10	4	0.7	0.7	1.8	21.4	1106
A9SWAE0516	4 + 1	16	6	0.7	0.7	1.8	24.5	1602
A9SWAE0525	4 + 1	25	6	0.9	0.7	1.8	28.2	2187
A9SWAE0535	4 + 1	35	10	0.9	0.7	1.9	31.1	2748
A9SWAE0550	4 + 1	50	16	1	0.7	2.0	35.9	3778
A9SWAE0570	4 + 1	70	25	1.1	0.9	2.2	41	5022
A9SWAE0595	4 + 1	95	25	1.1	0.9	2.3	45.4	6333
A9SWAE05120	4 + 1	120	35	1.2	0.9	2.5	51.2	8200
A9SWAE05150	4 + 1	150	50	1.4	1.0	2.7	56.9	9942
A9SWAE05185	4 + 1	185	70	1.6	1.1	2.8	62.4	12079
A9SWAE05240	4 + 1	240	95	1.7	1.1	3.0	69.7	15181
A9SWAE05300	4 + 1	300	120	1.8	1.2	3.2	75.3	18264



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CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
1.5	12.1
2.5	7.41
4	4.61
6	3.08
10	1.83
16	1.15
25	0.727
35	0.524
50	0.387
70	0.268
95	0.193
120	0.153
150	0.124
185	0.0991
240	0.0754
300	0.0601

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm ²	CURRENT CARRYING CAPACITY	
	In Ground Amps	In Air Amps
1.5	21	25
2.5	28	33
4	36	44
6	44	56
10	58	78
16	75	99
25	96	131
35	115	162
50	135	197
70	167	251
95	197	304

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.