

NA2XBY Aluminium Conductor IEC 60502-1 XLPE DSTA PVC 0.6/1kV Cable



Eland Product Group: A90

APPLICATION

This cable is highly resistant against mechanical stresses due to the galvanised steel tape armoured construction. Suitable for local distribution systems.

CHARACTERISTICS

Voltage Rating U₀/U
0.6/1kV

Maximum Operating Temperature
+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

Double galvanized steel tape

Sheath

PVC (Polyvinyl Chloride)

Sheath Colour

● Black

STANDARDS

IEC 60502-1, EN 60228

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 2015/853/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 OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A902016	2	16	19.6	624
A902025	2	25	22.6	807
A902035	2	35	24.8	967
A903016	3	16	20.5	741
A903025	3	25	23.8	985
A903035	3	35	26.2	1202
A903035/16	3	35/16	27.4	1317
A903050	3	50	29.6	1503
A903050/25	3	50/25	30.2	1573
A903070	3	70	33.5	1914
A903070/35	3	70/35	35.3	2132
A903095	3	95	37.6	2429
A903095/50	3	95/50	39.7	2711
A903120	3	120	42.5	2991
A903120/70	3	120/70	45	3363
A903150/70	3	150/70	48.8	4271
A903185/95	3	185/95	54.1	41191
A903240/120	3	240/120	61.2	6174
A904016	4	16	22.1	859
A904025	4	25	26	1172
A904035	4	35	28.6	1434
A904050	4	50	32.4	1804
A904070	4	70	36.7	2306
A905016	5	16	23.9	1057
A905025	5	25	28.4	1477
A905035	5	35	31.5	1842
A905050	5	50	35.9	2356
A905070	5	70	40	2960
A905095	5	95	45.3	3837

CONDUCTORS

Class 2 Stranded Conductors for Single Core and Multi-Core Cables

NOMINAL CROSS SECTIONAL AREA mm ²	MINIMUM NO. OF WIRES IN CONDUCTOR						MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km
	Circular		Circular Compacted		Shaped		Aluminium or Aluminium Alloy Conductor
	Cu	Al	Cu	Al	Cu	Al	
16	7	7	6	6	-	-	1.91
25	7	7	6	6	6	6	1.2
35	7	7	6	6	6	6	0.868
50	19	19	6	6	6	6	0.641
70	19	19	12	12	12	12	0.443
95	19	19	15	15	15	15	0.32
120	37	37	15	15	18	18	0.253
150	37	37	15	15	18	18	0.206
185	37	37	30	30	30	30	0.164
240	37	37	34	30	18	18	0.125

ELECTRICAL CHARACTERISTICS

Current Carrying Capacity

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm ²	CURRENT CARRYING CAPACITY Amps	
		In Ground	In Air
2	16	84	91
2	25	101	108
2	35	126	135
3	16	76	77
3	25	90	97
3	35	112	120
3	35/16	112	120
3	50	136	146
3	50/25	136	146
3	70	174	187
3	70/35	174	187
3	95	211	227
3	95/50	211	227
3	120	245	263
3	120/70	245	263
3	150/70	283	304
3	185/95	323	347
3	240/120	382	409
4	16	76	77
4	25	90	97
4	35	112	120
4	50	136	146
4	70	174	187
5	16	76	77
5	25	90	97
5	35	112	120
5	50	136	146
5	70	174	187
5	95	211	227

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.