

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 U_o/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 galvanised steel tape

Sheath
PVC (Polyvinyl Chloride)

Sheath Colour
● Black

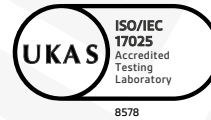
STANDARDS

BS EN 60228, IEC 60502-1

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

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.



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 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™.





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 | | |
| | 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.