# 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** Uo/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

## 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.

UKAS ISO/IEC 17025 Accredited Testing Laboratory 8578

bsi. ISO 9001 Quality Management FS 672069 | ISO 14001 Environmental Management EMS 672067 | ISO 45001 Occupational Health and Safety Management OHS 672066

## REGULATORY COMPLIANCE

This cable is compliant with European Regulation EN 50575, the Construction Products Regulation.

CPR COMPLIANT EN 50575

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™.

bsi. RoHS Trusted KITEMARK™ KM 634267 | RoHS | CE

## DIMENSIONS

| ELAND PART NO. | NO. OF CORES | NOMINAL CROSS SECTIONAL AREA $mm^2$ | NOMINAL OVERALL DIAMETER mm | NOMINAL WEIGHT kg/km |
|---|---|---|---|---|
| A9O2016 | 2 | 16 | 19.6 | 624 |
| A9O2025 | 2 | 25 | 22.6 | 807 |
| A9O2035 | 2 | 35 | 24.8 | 967 |
| A9O3016 | 3 | 16 | 20.5 | 741 |
| A9O3025 | 3 | 25 | 23.8 | 985 |
| A9O3035 | 3 | 35 | 26.2 | 1202 |
| A9O3035/16 | 3 | 35/16 | 27.4 | 1317 |
| A9O3050 | 3 | 50 | 29.6 | 1503 |
| A9O3050/25 | 3 | 50/25 | 30.2 | 1573 |
| A9O3070 | 3 | 70 | 33.5 | 1914 |
| A9O3070/35 | 3 | 70/35 | 35.3 | 2132 |
| A9O3095 | 3 | 95 | 37.6 | 2429 |
| A9O3095/50 | 3 | 95/50 | 39.7 | 2711 |
| A9O3120 | 3 | 120 | 42.5 | 2991 |
| A9O3120/70 | 3 | 120/70 | 45 | 3363 |
| A9O3150/70 | 3 | 150/70 | 48.8 | 4271 |
| A9O3185/95 | 3 | 185/95 | 54.1 | 41191 |
| A9O3240/120 | 3 | 240/120 | 61.2 | 6174 |
| A9O4016 | 4 | 16 | 22.1 | 859 |
| A9O4025 | 4 | 25 | 26 | 1172 |
| A9O4035 | 4 | 35 | 28.6 | 1434 |
| A9O4050 | 4 | 50 | 32.4 | 1804 |
| A9O4070 | 4 | 70 | 36.7 | 2306 |
| A9O5016 | 5 | 16 | 23.9 | 1057 |
| A9O5025 | 5 | 25 | 28.4 | 1477 |
| A9O5035 | 5 | 35 | 31.5 | 1842 |
| A9O5050 | 5 | 50 | 35.9 | 2356 |
| A9O5070 | 5 | 70 | 40 | 2960 |
| A9O5095 | 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 |



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# 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.