

## AHXAMK 12/20 (24)kV Cable



Eland Product Group: B1O

### APPLICATION

The AHXAMK 12/20 (24)kV cable is suitable for fixed outdoor installations.

### CHARACTERISTICS

**Voltage Rating**  $U_0/U$  ( $U_m$ )  
12/20 (24)kV

**Temperature Rating**

Installation: -20°C to +40°C  
Operating: -20°C to +90°C

**Short Circuit Temperature**  
250°C

**Minimum Bending Radius**  
8 x overall diameter

### CONSTRUCTION

**Conductor**

Watertight, Circular, stranded aluminium

**Conductor Screen**

Semi-conducting compound

**Insulation**

XLPE compound (Cross-Linked Polyethylene)

**Insulation Screen**

Semi-conducting compound

**Water Tightness**

Semiconducting waterswellable tape against longitudinal water penetration

**Metallic Screen**

Aluminium/plastic laminate, which acts as a radial water barrier

**Individual Outer Sheath**

Weather resistant PE-compound (Polyethylene)

**Centre line**

Circular, stranded copper

**Sheath Colour**

● Black

### STANDARDS

SFS 5636; HD 620 S2:2010 Part 10 Section F

### 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 <sup>2</sup>	NOMINAL OVERALL DIAMETER mm	MAXIMUM PULLING FORCE kN	NOMINAL WEIGHT kg/km
B1020KV0350/35	3	50/35	60	7.5	2300
B1020KV03070/35	3	70/35	63	10.5	2590
B1020KV0395/35	3	95/35	67	14.3	2960
B1020KV03120/35	3	120/35	69	18	3250
B1020KV03150/35	3	150/35	73	20	3630
B1020KV03185/35	3	185/35	77	20	4150
B1020KV03240/35	3	240/35	83	20	4920
B1020KV03240/70	3	240/70	83	20	5230
B1020KV03300/35	3	300/35	87	20	5660
B1020KV03300/70	3	300/70	87	20	5950

## ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	MAXIMUM CONDUCTOR DC RESISTANCE AT 20°C ohm/km
50/35	0.641
70/35	0.443
95/35	0.320
120/35	0.253
150/35	0.206
185/35	0.164
240/35	0.125
240/70	0.125
300/35	0.100
300/70	0.100

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.