



YAKXS Cable

IEC 60502-1 AL/XLPE/PVC 1.8/3 (3.6)kV



Eland Product Group: P9O

APPLICATION

For fixed installation in buildings, in free air, in ground and in water.

CHARACTERISTICS

Voltage Rating

AC: 1.8/3 (3.6)kV
DC: 2.7/5.4 kV

Temperature Range

Maximum Conductor Operating Temperature: +90°C
Maximum Conductor Temperature During S.C: +250°C

Minimum Bending Radius

15 x Overall Diameter

CONSTRUCTION

Conductor

Class 2 Stranded Plain Aluminium Circular Compact Conductor

Insulation

XLPE (Cross linked Polyethylene)

Sheath

PVC (Polyvinyl Chloride)

Sheath Colour

● Black

STANDARDS

IEC 60502-1, IEC 60228,
UV resistant ISO 4892
Flame retardant 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 2015/65/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 OUTER DIAMETER mm	NOMINAL WEIGHT kg/km
P903KV01601	1	16	10.9	140
P90010253KV	1	25	12	180
P90010353KV	1	35	13.1	215
P90010503KV	1	50	14.4	265
P90010703KV	1	70	16.2	350
P90010953KV	1	95	17.7	430
P90011203KV	1	120	19.3	530
P90011503KV	1	150	21.5	635
P90011853KV	1	185	22.6	750
P90012403KV	1	240	25.2	935
P90013003KV	1	300	27.5	1125
P90014003KV	1	400	30.4	1410
P90015003KV	1	500	34.3	1775
P90016303KV	1	630	38.4	2280
P90018003KV	1	800	43.8	2945
P900110003KV	1	1000	50.7	3710

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM CONDUCTOR DC RESISTANCE AT 20°C Ω/Km	MAXIMUM CONDUCTOR AC RESISTANCE AT 50 Hz Ω/Km	CURRENT RATING		
			Laid in ground	Laid in duct	Laid in free air
16	1.91	2.435	102	74	85
25	1.2	1.53	131	96	112
35	0.868	1.107	157	115	137
50	0.641	0.817	185	137	166
70	0.443	0.565	227	170	210
95	0.32	0.408	271	205	257
120	0.253	0.323	309	236	300
150	0.206	0.263	346	267	343
185	0.164	0.209	393	306	398
240	0.125	0.159	456	361	475
300	0.1	0.128	516	414	551
400	0.0778	0.099	590	478	648
500	0.0605	0.077	673	557	763
630	0.469	0.06	765	645	892
800	0.0367	0.047	863	740	1039
1000	0.0291	0.037	961	845	1200

Laying conditions at trefoil formation are as below:

- Soil thermal resistivity: 120°C.Cm/Watt
- Burial depth: 0.5m
- Ground temperature: 15°C | Air temperature: 25°C | Frequency: 50Hz

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.