



Eland Product Group: B9V

## APPLICATION

Low voltage power distribution cable for use in low voltage power distribution in permanent indoor and outdoor fixed installations, protected or not, in industrial areas, buildings, and similar applications. Suitable for photovoltaic installations.

## CHARACTERISTICS

### Voltage Rating

0.6/1kV

### Test Voltage

3.5kV a.c. (5 min.)

### Temperature Rating

Minimum operating temperature -15°C

Maximum temperature rating of the conductor: 90°C

Short-circuit temperature of the conductor: 250°C (t ≤ 5s)

### Maximum pulling force over conductor (N)

Over conductors 30 x Section mm<sup>2</sup>

Over sheath: 3 x d<sup>2</sup>

## CONSTRUCTION

### Conductor

Class 2 Stranded circular or sector-shaped Aluminium

### Insulation

XLPE (Cross-Linked Polyethylene)

### Sheath

PVC (Polyvinyl chloride) type ST2, UV resistant

### Sheath Colour

● Black

## STANDARDS

IEC 60502-1, IEC 60228, HD 308.S2, TS 173:01-2020,

UNE HD 603-5N,

UV Resistant

Fire Performance : UNE-EN 60332-1, EN/IEC 60332-1-2,

## THE CABLE LAB<sup>®</sup>

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](http://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<sup>®</sup>.





## DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km	MINIMUM BENDING RADIUS mm
B9V01016	1	16	9.1	103	80
B9V01025	1	25	10.7	144	95
B9V01035	1	35	11.8	181	105
B9V01050	1	50	13.0	223	115
B9V01070	1	70	15.0	301	135
B9V01095	1	95	16.9	394	150
B9V01120	1	120	18.5	473	165
B9V01150	1	150	20.6	590	185
B9V01185	1	185	22.7	730	205
B9V01240	1	240	25.6	933	230
B9V01300	1	300	28.1	1203	250
B9V01400	1	400	32.2	1585	290
B9V01500	1	500	35.0	2047	315
B9V01630	1	630	38.9	2534	350

## ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	MAXIMUM CURRENT RATING A		VOLTAGE DROP COS $\phi$ = 0,8 V/A.km
	Air 30 °C	Buried 20 °C	
16	77	59	3.421
25	103	75	2.205
35	129	90	1.547
50	159	103	1.211
70	206	130	0.861
95	253	154	0.622
120	296	174	0.531
150	343	197	0.452
185	395	220	0.373
240	471	253	0.304
300	547	286	0.265
400	663	-	0.221
500	770	-	0.194
630	899	-	0.173