

# Torsion Resistant Loop Screened LSZH 1kV Turbine Cable



Eland Product Group: B9D

## APPLICATION

Torsion resistant loop screened power cables are designed for special application conditions in wind turbines where under medium mechanical stress and for operation outdoors or under permanent influence of seawater. Oil, UV, Ozone resistant.

## CHARACTERISTICS

**Rated Voltage Uo/U**  
0.6/1kV

**Temperature Rating**  
**Fixed:** -40°C +90°C  
**Flexed:** -35°C +90°C

**Minimum Bending Radius**  
**Fixed:** 4x Overall Diameter  
**Flexing:** 6x Overall Diameter

**Torsion Resistance**  
± 100°/m

**Maximum Tensile Load**  
15N/mm<sup>2</sup> (in operation)

## CONSTRUCTION

**Conductor**  
Stranded bare copper

**Insulation**  
EPR (Ethylene Propylene Rubber)

**Screen**  
TWCB (Tinned wire copper braid)

**Sheath**  
HF-EVA (Halogen Free Ethylene-Vinyl Acetate)

**Sheath Colour**  
● Black

## DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTION AREA mm <sup>2</sup>	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
B9D040015BK	4	1.5	10.0	150
B9D040040BK	4	4	13.5	300
B9D050025BK	5	2.5	15.0	300
B9D120015BK	12	1.5	16.0	400
B9D120025BK	12	2.5	23.0	620
B9D2500075BK	25	0.75	18.0	500
B9D250010BK	25	1	20.0	550
B9D320015BK	32	1.5	26.0	950
B9D420015BK	42	1.5	35.0	1700

## STANDARDS

IEC 60502-1, IEC 60228, EN 50363, HD 22.13,  
Flame retardant according to IEC 60332-1  
Low Smoke Zero Halogen according to IEC 60754, IEC 61034

## 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](http://www.elandcables.com/company/about-us/esg-sustainability)



## REGULATORY COMPLIANCE

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®.

