

# Aluminium Concentric BS 7870 LSZH Cable



Eland Product Group: A1S

## APPLICATION

Used by distribution network operators (DNO's) when providing the final connection to domestic properties. Also suitable for sub main distribution and particularly used within high-rise buildings and street lighting systems.

## CHARACTERISTICS

**Voltage Rating (U<sub>0</sub>/U)**  
0.6/1kV

**Temperature Rating**  
-15°C to +70°C

**Minimum Bending Radius**  
8 x overall diameter

## CONSTRUCTION

**Conductor**  
Class 1 solid aluminium conductor

**Insulation**  
XLPE (Cross-Linked Polyethylene)

**Concentric Neutral / Earth Conductor**  
Single layer of plain copper wires

**Sheath**  
LSZH (Low Smoke Zero Halogen)

**Sheath Colour**  
● Orange

## STANDARDS

BS 7870-3-11, EN 60228

Flame Retardant according to IEC/EN 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 2015/863/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
A1S/312/125	1	25	13	300
A1S/312/135	1	35	14	390
A1S/312/325	3	25	23	610
A1S/312/335	3	35	25	800

## CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C ohms/km	MAXIMUM DC RESISTANCE OF CONCENTRIC CONDUCTOR AT 20°C ohms/km
25	1.2	1.3
35	0.868	0.91

## ELECTRICAL CHARACTERISTICS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	CURRENT CARRYING CAPACITY Amps		
		In Air	Clipped Direct	Enclosed in Conduit on a Wall
1	25	127	119	105
1	35	158	147	128
3	25	97	90	84
3	35	120	112	103

Conductor Operating Temperature: 90°C

Ambient Temperature: 30°C

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.