

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 (U₀/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



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 ²	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 ²	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 ²	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.