

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.

CONSTRUCTION

Conductor

Class 1 solid aluminium conductor according to BS EN 60228 (previously BS 6360)

Insulation

XLPE (Cross-Linked Polyethylene)

Concentric Conductor

Single layer of plain copper wires

Sheath

LSZH (Low Smoke Zero Halogen)

CABLE STANDARDS

BS 7870-3.12, BS EN 50266-2-4, BS EN 50267-2-1, BS EN 50268 1 and 2, BS EN 60228



The electrical and dimensional properties of this product are measured by the Technical and Quality Assurance department at the Eland Cables laboratory. Cable performance in respect of conductor resistance, construction quality (workmanship), dimensional consistency, and other parameters are verified to published standards and approved product drawings. Conformance to RoHS (Restriction of the use of Hazardous Substances) is determined and confirmed.

CHARACTERISTICS

Voltage Rating (U_o/U)

600/1000V

Temperature Rating

-15°C to +70°C

Minimum Bending Radius

8 x overall diameter

Sheath Colour

● Orange

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

CONDUCTOR

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		
		In Air Amps	Clipped Direct Amps	Enclosed in Conduit on a Wall Amps
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