

# Aluminium Split Concentric BS 7870 PVC 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)

### Neutral Conductor

Plain copper wires covered a blue polymeric compound

### Earth Continuity Conductor

Plain copper wires

### String Separator

Non-hygroscopic separator

### Sheath

PVC (Polyvinyl Chloride)

## CABLE STANDARDS

BS 7870-3.21, 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<sub>o</sub>/U)

600/1000V

### Temperature Rating

-15°C to +70°C

### Minimum Bending Radius

8 x overall diameter

### Sheath Colour

● Black

## DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A1S/321/125	1	25	15	490
A1S/321/135	1	35	16	610
A1S/321/325	3	25	23.5	830
A1S/321/335	3	35	26	1030

## CONDUCTOR

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C ohms/km		
	Phase	Neutral	Earth
25	1.2	1.2	1.2
35	0.868	0.76	1.2

## ELECTRICAL CHARACTERISTICS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	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