

# Copper 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 2 stranded copper conductor according to BS EN 60228 (previously BS 6360)

### Insulation

XLPE (Cross-Linked Polyethylene)

### Concentric Conductor

Single layer of plain copper wires

### Sheath

PVC (Polyvinyl Chloride)

## CABLE STANDARDS

BS 7870-3.11, 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/311C/1040	1	4	8.5	140
A1S/311C/116	1	16	12	370
A1S/311C/125	1	25	14	550

## CONDUCTOR

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
4	4.61	4.8
16	1.15	1.2
25	0.727	0.76

## ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	CURRENT CARRYING CAPACITY		
	In Air Amps	Clipped Direct Amps	Enclosed in Conduit on a Wall Amps
4	42	41	37
16	100	99	88
25	135	130	117

Conductor Operating Temperature: 90°C  
Ambient Temperature: 30°C