

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

Insulation

XLPE (Cross-Linked Polyethylene)

Neutral Conductor

Plain copper wires covered by a blue polymeric compound

Earth Continuity Conductor

Plain copper wires

String Separator

Non-hydroscopic 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_o/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 ²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A1S/321C/1040	1	4	10	190
A1S/321C/116	1	16	14	530
A1S/321C/125	1	25	16	710
A1S/321C/335	3	35	28.5	1900

CONDUCTOR

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C ohms/km		
	Phase	Neutral	Earth
4	4.61	4.8	4.8
16	1.15	1.2	1.2
25	0.727	0.76	1.2
35	0.524	0.55	0.76

ELECTRICAL CHARACTERISTICS

NOMINAL CROSS SECTIONAL AREA mm ²	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
35	129	120	110

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