

# 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.

## CHARACTERISTICS

**Voltage Rating** U<sub>0</sub>/U  
0.6/1KV

**Temperature Rating**  
-15°C to +70°C

**Minimum Bending Radius**  
8 x overall diameter

## CONSTRUCTION

**Conductor**  
Class 2 stranded copper conductor

**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)

**Sheath Colour**  
● Black

## STANDARDS

BS 7870-3-21, 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.



8578



FS 672069



EMS 672067

OHS 672066

## 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™.



IKH 634267





## DIMENSIONS

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

## CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	MAXIMUM DIAMETER OF WIRES IN CONDUCTOR mm	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km	
		Plain Wires	Metal-Coated Wires
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 <sup>2</sup>	CURRENT CARRYING CAPACITY Amps		
	In Air	Clipped Direct	Enclosed in Conduit on a Wall
4	42	41	37
16	100	99	88
25	129	120	110
35	135	130	117

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.