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.

CHARACTERISTICS

Voltage Rating (Uo/U)
0.6/1kV

Temperature Rating
-15°C to +70°C

Minimum Bending Radius
8 x overall diameter

CONSTRUCTION

Conductor
Class 1 solid aluminium conductor

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)

Sheath Colour
● Black

STANDARDS

BS 7870-3-21, EN 60228

Flame Retardant according to IEC/EN 60332-1-2

THE CABLE LAB®

AN ISO/IEC 17025 AND IECEE CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.

SUSTAINABILITY COMMITMENT

We are on a journey to Net Zero.

We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable operations at: www.elandcables.com/company/about-us/esg-sustainability

REGULATORY COMPLIANCE

This cable is compliant with European Reglation EN 50575, the Construction Products Regulation.

This cable meets the requirements of the Low Voltage Directive 2014/35/EU, the RoHS Directive 2015/65/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab®.

DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	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

CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm²	MAXIMUM DC RESISTANCE OF CONCENTRIC 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 mm²	CURRENT CARRYING CAPACITY Amps		
		In Air	Clipped Direct	Enclosed in Conduit on a Wall
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

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