Aluminium 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

Insulation
XLPE (Cross-Linked Polyethylene)

Concentric Neutral / Earth Conductor
Single layer of plain copper wires

Sheath
PVC (Polyvinyl Chloride)

Sheath Colour
● Black

STANDARDS

BS 7870-3-11, EN 60228

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

UK Power Networks Services

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.

ISO/IEC 17025 Accredited Testing Laboratory — UKAS TESTING

IECEE CBTL Accredited Testing Laboratory

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

SCIENCE BASED TARGETS — BUSINESS AMBITION FOR 1.5°C

REGULATORY COMPLIANCE

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

CPR COMPLIANT EN 50575

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®.

RoHS — REACH — CE

DIMENSIONS

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A1S/311/125	1	25	13	300
A1S/311/135	1	35	14	390
A1S/311/325	3	25	23	650
A1S/311/335	3	35	25	820

ELECTRICAL CHARACTERISTICS

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	MAXIMUM CONDUCTOR DC RESISTANCE AT 20°C Ω/Km	CONDUCTOR AC RESISTANCE AT 90°C Ω/Km	MAXIMUM CNE CONDUCTOR DC RESISTANCE AT 20°C Ω/Km	CURRENT CARRYING CAPACITY A		
					Enclosed in conduit on a wall, ambient temperature = 30°C	Clipped direct, ambient temperature = 30°C	In free air, ambient temperature = 30°C
1	25	1.2	1.54	1.3	84	90	103
1	35	0.868	1.11	0.91	103	112	129
1	25	1.2	1.54	1.3	84	90	97
1	35	0.868	1.11	0.91	103	112	120

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