

BS 6004 624-Y Twin and Earth PVC Cable



ELAND CABLES ©

Eland Product Group: A9A

APPLICATION

Domestic wiring cable. Can be installed in fixed installations in dry or damp premises clipped to surface, on trays or in free air where the risk of mechanical damage would not be an issue. Suitable for laying in conduit or trunking where mechanical protection is required.

CHARACTERISTICS

Voltage Rating Uo/U 300/500V

Temperature Rating -5°C to +70°C

Minimum Bending Radius Fixed: 6 x overall diameter

CONSTRUCTION

Conductor

RE: 1mm² to 2.5mm²: Class 1 solid copper RM: 4mm² to 16mm²: Class 2 stranded copper

Circuit Protection Conductor (Earth)

1mm² to 2.5mm²: Class 1 solid copper 4mm² to 16mm²: Class 2 stranded copper

Insulation PVC (Polyvinyl Chloride)

Sheath PVC (Polyvinyl Chloride)

Core Identification 2 core: ● Blue ● Brown 3 core: ● Brown ● Black ● Grey

Sheath Colour Grey

CABLE THIRD-PARTY ACCREDITATION

We supply BASEC approved products Cables are tested and certified by BASEC, The British Approvals Service for Cables

STANDARDS

BS 6004, 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 Regulation 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 mm ²	NOMINAL THICKNESS OF INSULATION mm	NOMINAL OVERALL DIAMETER mm	NOMINAL OVERALL DIAMETER mm	NOMINAL OVERALL DIAMETER mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A9A2010GR	2	1	1	1	0.6	0.9	4.35 x 7.95	68
A9A2015GR	2	1.5	1	1	0.7	0.9	4.85 x 8.9	87
A9A2025GR	2	2.5	1	1.5	0.8	1	5.65 x 10.65	120
A9A2040GR	2	4	2	1.5	0.8	1	6.3 x 11.95	172
A9A2060GR	2	6	2	2.5	0.8	1.1	7.1 x 13.7	235
A9A210GR	2	10	2	4*	1	1.2	8.7 x 17.25	373
A9A216GR	2	16	2	6*	1	1.3	9.85 x 20	530
A9A3010GR	3	1	1	1	0,6	0.9	4.35 x 9.8	91
A9A3015GR	3	1.5	1	1	0.7	0.9	4.85 x 11.2	115

*Class 2 conductors only

CONDUCTORS

Class 1 Solid Conductors for Single Core and Multi-Core Cables

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km Plain Wires		
1	18.1		
1.5	12.1		
2.5	7.41		

The above table is in accordance with BS EN 60228 (previously BS 6360)

Class 2 Stranded Conductors for Single Core and Multi-Core Cables

NOMINAL CROSS SECTIONAL AREA	MINIMUM NO. OF WIRES IN CONDUCTOR	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km		
mm ²		Annealed Copper Conductor Plain Wires		
	Circular			
4	7	4.61		
6	7	3.08		
10	7	1.83		
16	7	1.15		

The above table is in accordance with EN 60228



ELECTRICAL CHARACTERISTICS

Table 4D5 - Current Carrying Capacity and Voltage Drop

CURRENT-CARRYING CAPACITY (amperes) and VOLTAGE DROP (per ampere per metre):

Ambient temperature: 30°C Conductor operating temperature: 70°C

Conductor	Method 100#	Method 101 #	Method 102#	Method 103#	Reference	Reference	Voltage
cross-	(above a	(above a	(in a stud wall with	(in a stud wall with	Method C*	Method A*	drop
sectional	plasterboard ceiling	plasterboard ceiling	thermal insulation	thermal insulation	(clipped direct)	(enclosed in	(per ampere
area	covered by thermal	covered by thermal	with cable touching	with cable not		conduit in an	per metre)
arca	insulation not	insulation exceeding	the inner wall	touching the inner		insulated wall)	per metre)
	exceeding 100mm in thickness)	100mm in thickness)	surface)	wall surface)			
	III thickness)	thickness)					
1	2	3	4	5	6	7	8
(0)	(4)	(4)					
(mm²)	(A)	(A)	(A)	(A)	(A)	(A)	(mV/A/m)
1	13	10.5	13	8	16	11.5	44
1.5	16	13	16	10	20	14.5	29
2.5	17	21	13.5	13.5	27	20	18
4	22	27	18.5	18.5	37	26	11
6	27	35	23.5	23.5	47	32	7.3
10	36	47	32	32	64	44	4.4
16	46	63	42.5	42.5	85	57	2.8

A* - For full installation method refer to Table 4A2 Installation Method 2 but for flat twin and earth cable

C* - For full installation method refer to Table 4A2 Installation Method 20 but for flat twin and earth cable 100# - For full installation method refer to Table 4A2 Installation Method 100

101# - For full installation method refer to Table 4A2 Installation Method 101

102# - For full installation method refer to Table 4A2 Installation Method 102

103# - For full installation method refer to Table 4A2 Installation Method 103

Wherever practicable, a cable is to be fixed in a position such that it will not be covered with thermal insulation. Regulation 523.9, BS 5803-5: Appendix C: Avoidance of overheating of electric cables.

Building Regulations Approved Document B and Thermal insulation: avoiding risks, BR 262, BRE, 2001 refer.

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.