

# 318-A / BS 6004 Arctic Grade Cable



Eland Product Group: A5A

#### **APPLICATION**

Arctic grade PVC cords manufactured to BS 6004 are designed to withstand severe external temperatures and will remain flexible at temperatures down to -40°C. Making them particularly suitable for outdoor applications and for use where flexibility is required at sub zero temperatures. At normal temperatures the cable is very flexible, offering some of the characteristics usually found in elastomeric cables.

#### **CHARACTERISTICS**

Voltage Rating Uo/U 300/500V

**Temperature Rating** Fixed: -40°C to +60°C

Minimum Bending Radius

Fixed: 6 x overall diameter

#### **CONSTRUCTION**

#### Conductor

Class 5 flexible copper conductor

#### Insulation

Arctic grade PVC (Polyvinyl Chloride)

#### Sheath

Arctic grade PVC (Polyvinyl Chloride)

#### **Core Identification**

2 core: Blue Brown

3 core: 

■ Blue 

■ Brown 

Green/Yellow

#### **Sheath Colour**

■ Blue ● Yellow

#### CABLE THIRD-PARTY ACCREDITATIONS

#### 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 mm²	NOMINAL THICKNESS OF INSULATION mm	NOMINAL THICKNESS OF SHEATH mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A5A2075*1R	2	0.75	0.6	0.8	6.2	55
A5A2010*1R	2	1	0.6	0.8	6.4	61
A5A2015*1R	2	1.5	0.7	0.8	7.4	83
A5A2025*1R	2	2.5	0.8	1	9.2	130
A5A204*1R	2	4	0.8	1.1	10.4	176
A5A206*1R	2	6	0.8	1.2	11.3	73
A5A3010*1R	3	1	0.6	0.8	6.8	105
A5A3015*1R	3	1.5	0.7	0.9	8.1	163
A5A3025*1R	3	2.5	0.8	1.1	10	224
A5A304*1R	3	4	0.8	1.2	11.3	299
A5A306*1R	3	6.0	0.8	1.2	12.7	299

<sup>\*</sup> Designates the sheath colour. For each Eland Cables part number replace with the colour code as listed below e.g. A5A2075B1R = 0.75mm² Blue

# **COLOUR CODES**

COLOUR	Blue	Yellow
CODE	В	Υ

# **CONDUCTORS**

## Class 5 Flexible Copper Conductors for Single Core and Multi-Core Cables

NOMINAL CROSS SECTIONAL AREA mm²	MAXIMUM DIAMETER OF WIRES IN CONDUCTOR  mm	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km	
		Plain Wires	
0.75	0.21	26	
1	0.21	19.5	
1.5	0.26	13.3	
2.5	0.26	7.98	
4	0.31	4.95	
6	031	3.30	

# **ELECTRICAL CHARACTERISTICS**

# **Current Carrying Capacity**

NOMINAL CROSS SECTIONAL AREA	CURRENT CARRYING CAPACITY AT 30°C Amps		
mm²	Single-Phase AC	Three-Phase AC	
0.75	6	6	
1	10	10	
1.5	16	16	
2.5	25	20	
4	32	25	
6	48	40	



# **VOLTAGE DROP**

NOMINAL CROSS SECTIONAL AREA mm²	DC OR SINGLE-PHASE AC mV/A/m	THREE-PHASE AC mV/A/m		
0.75	62	54		
1	46	40		
1.5	32	27		
2.5	19	16		
4	12	10		
6	8	7		

Conductor operating temperature: 60°C

The above table is in accordance with Table 4F3B of the 18th Edition of IEE Wiring Regulations BS7671 and IEC 60364-5-52.

# **DE-RATING FACTORS**

AMBIENT TEMPERATURE	35°C	40°C	45°C	50°C	55°C
DE-RATING FACTOR	0.91	0.82	0.71	0.58	0.41

The above table is in accordance with Table 4F3A of the 18th Edition of IEE Wiring Regulations BS7671 and IEC 60364-5-52.

