

# Traffic Signal Cable BS 6346 SWA PVC



Eland Product Group: A6T

#### **APPLICATION**

For the interconnection of traffic signal equipment or other applications requiring high core configurations with mechanical robustness.

#### **CHARACTERISTICS**

Voltage Rating Uo/U 0.6/1kV

Temperature Rating Fixed: -15°C to +70°C

**Short Circuit Temperature** 

+160°C

#### **Minimum Bending Radius**

6 x overall diameter

#### CONSTRUCTION

#### Conductor

Class 1 annealed copper conductor

#### Insulation

PVC (Polyvinyl Chloride)

#### Bedding

Polymeric compound with a tensile strength of not less than 4N/mm<sup>2</sup> and an elongation break of not less than 50%

#### Δrmoui

Single layer of galvanized wires laid in a right direction

# Sheath

PVC (Polyvinyl Chloride)

#### **Sheath Colour**

Orange

#### **STANDARDS**

BS 6346, BS 50363

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





BUSINESS 1







#### REGULATORY COMPLIANCE

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\*.







### **Core Identification**

8 cores:
Centre Lay (Right Hand Lay): ● Brown
Second Layer (Left Hand Lay): ● Yellow ● Green/Blue ● Red
○ White ● Blue ● Black ● Orange

12 cores:
Centre Lay (Right Hand Lay): ● Brown ● Yellow ● Green/Blue
Second Layer (Left Hand Lay): ● Red ○ White ● Blue
● Black ● Orange ❷ Red/White
● Grey ● Red/Blue ● Violet

16 cores:
Centre Lay (Right Hand Lay): ● Brown ● Yellow
● Green/Blue ● Red ○ White
Second Layer (Left Hand Lay): ● Blue ● Black ● Orange

Grey ● Red/Blue ● VioletBrown/Red ● Yellow/Red

Red/White

# 20 cores: Centre Lay (Right Hand Lay): ■ Brown ● Yellow ■ Green/Blue ● Red ○ White ■ Blue ● Black Second Layer (Left Hand Lay): ■ Orange ● Red/White ■ Grey ● Red/Blue ● Violet ■ Brown/Red ● Yellow/Red ■ Grey/Red ● Black/Red ■ Red/Blue ● Violet ■ Violet/Red ● Orange/Red ■ Green/Red ● Blue/White

#### **DIMENSIONS**

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL THICKNESS OF INSULATION mm	NOMINAL THICKNESS OF BEDDING mm	DIAMETER OF STEEL WIRE	NOMINAL THICKNESS OF SHEATH mm	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
A6T08010SWA	8	1	0.6	0.8	0.9	1.4	13.2	388
A6T08015SWA	8	1.5	0.6	0.8	0.9	1.4	13.4	451
A6T12010SWA	12	1	0.6	0.8	1.25	1.4	16.2	615
A6T12015SWA	12	1.5	0.6	0.8	1.25	1.5	17.4	729
A6T16010SWA	16	1	0.6	0.8	0.9	1.5	17.6	725
A6T16015SWA	16	1.5	0.6	0.8	1.25	1.6	18.9	864
A6T20010SWA	20	1	0.6	8.0	1.25	1.6	19	841
A6T20015SWA	20	1.5	0.6	0.8	1.25	1.6	20.2	997

# CONDUCTORS

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

NOMINAL CROSS SECTIONAL AREA mm²	MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km		
	Annealed Copper Conductor  Plain Wires		
1	18.1		
1.5	12.1		



# **ELECTRICAL CHARACTERISTICS**

Current Carrying Capacity and Resistance Values

NO. OF CORES	NOMINAL CROSS SECTIONAL AREA	MAXIMUM CONDUCTOR RESISTANCE AT 20°C	CURRENT CARR Am	VOLTAGE DROP	
	mm <sup>2</sup>	ohms/km	In Air	Direct Burial	mV/A/m
8	1	18.1	12	10.5	25
12	1	18.1	10	8.7	25
16	1	18.1	9	8	25
20	1	18.1	8	7.1	25
8	1.5	12.1	15	13.5	38
12	1.5	12.1	13	11.7	38
16	1.5	12.1	11	10	38
20	1.5	12.1	10	9.1	38

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.