



# PAS BS 5308 Part 2 Type 2 PVC/CAM/PVC/SWA/PVC Cable



Eland Product Group: I

## APPLICATION

Publicly Available Standard (PAS) BS 5308 cables are designed to carry communication and control signals in a variety of installation types including the petrochemical industry. The signals can be of analogue, data or voice type and from a variety of transducers such as pressure, proximity or microphone. Part 2 Type 2 cables are designed where a greater degree of mechanical protection is required namely outdoor / exposed or direct burial at suitable depth.

## CHARACTERISTICS

**Voltage Rating (U<sub>o</sub>/U)**  
300/500V

**Temperature Rating**  
Fixed: -40°C to +80°C  
Flexed: 0°C to +50°C

**Minimum Bending Radius**  
Fixed: 12 x overall diameter

## CONSTRUCTION

**Conductor**  
0.5mm<sup>2</sup> - 0.75mm<sup>2</sup>: Class 5 flexible copper conductor  
1mm<sup>2</sup> and above: Class 2 stranded copper conductor

**Insulation**  
PVC (Polyvinyl Chloride)

**Screen**  
Al/PET (Aluminium/Polyester Tape)

**Drain Wire**  
Tinned copper

**Bedding**  
PVC (Polyvinyl Chloride)

**Armour**  
SWA (Galvanized Steel Wire Armour)

**Sheath**  
PVC (Polyvinyl Chloride)

**Sheath Colour**  
● Blue ● Black

## STANDARDS

BS/PAS 5308, EN 60228

Flame Retardant according to: IEC/EN 60332-1-2,  
IEC/EN 60332-3-24

## THE CABLE LAB<sup>®</sup>

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](http://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 2015/85/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab<sup>®</sup>.





## DIMENSIONS

### Collectively Screened

ELAND PART NO.	NO. OF PAIRS/TRIPLE	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL OVERALL DIAMETER mm
I0105P2T2CP**	1P	0.5	11.4
I0175P2T2CP**	1P	0.75	11.8
I0110P2T2CP**	1P	1	11.8
I0115P2T2CP**	1P	1.5	12.9
I0125P2T2CP**	1P	2.5	13.7
I1T05P2T2CP**	1T	0.5	11.7
I1T75P2T2CP**	1T	0.75	12.1
I1T10P2T2CP**	1T	1	12.3
I1T15P2T2CP**	1T	1.5	13.5
I1T25P2T2CP**	1T	2.5	17.3
I0205P2T2CP**	2P(Q)	0.5	12.3
I0275P2T2CP**	2P (Q)	0.75	13
I0210P2T2CP**	2P (Q)	1	13
I0215P2T2CP**	2P (Q)	1.5	14.3
I0225P2T2CP**	2P (Q)	2.5	15.3
I0505P2T2CP**	5P	0.5	17.9
I0575P2T2CP**	5P	0.75	19.3
I0510P2T2CP**	5P	1	19.7
I0515P2T2CP**	5P	1.5	22.1
I0525P2T2CP**	5P	2.5	24.1
I1005P2T2CP**	10P	0.5	22.9
I1075P2T2CP**	10P	0.75	25.5
I1010P2T2CP**	10P	1	24.3
I1015P2T2CP**	10P	1.5	28.4
I1025P2T2CP**	10P	2.5	32.1
I1505P2T2CP**	15P	0.5	26.4
I1575P2T2CP**	15P	0.75	28.7
I1510P2T2CP**	15P	1	28.1
I1515P2T2CP**	15P	1.5	32.2
I1525P2T2CP**	15P	2.5	36.4
I2005P2T2CP**	20P	0.5	29.1
I2075P2T2CP**	20P	0.75	31.6
I2010P2T2CP**	20P	1	31.2
I2015P2T2CP**	20P	1.5	35.7
I2025P2T2CP**	20P	2.5	41

\* Designates the sheath colour. For each Eland Cables part number replace with the colour code

P = Pairs

Q = Quad

T = Triple

## CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	CONDUCTOR CLASS	MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C ohms/km
0.5	5	39
0.75	5	26
1	1	18.1
1.5	2	12.1
2.5	2	7.41



Click here for more information:

[elandcables.com](http://elandcables.com) | [PAS BS 5308 P2 T2 PVC/CAM/PVC/SWA/PVC Cable](#)

ELAND  
CABLES

## ELECTRICAL CHARACTERISTICS





### Individually and Collectively Screened

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	MUTUAL CAPACITANCE pF/m		MINIMUM INSULATION RESISTANCE AT 20°C mohms/km	MAXIMUM L/R RATIO μH/ohms
	Between Pairs or Adjacent Cores	Between any Core and Screen		
0.5	250	450	>25	25
0.75	250	450	>25	25
1	250	450	>25	25
1.5	250	450	>25	40
2.5	250	450	>25	65

## CORE IDENTIFICATION

PAIR NO.	A WIRE	B WIRE
1	○ White	● Blue
2	○ White	● Orange
3	○ White	● Green
4	○ White	● Brown
5	○ White	● Grey
6	● Red	● Blue
7	● Red	● Orange
8	● Red	● Green
9	● Red	● Brown
10	● Red	● Grey
11	● Black	● Blue
12	● Black	● Orange
13	● Black	● Green
14	● Black	● Brown
15	● Black	● Grey
16	● Yellow	● Blue
17	● Yellow	● Orange
18	● Yellow	● Green
19	● Yellow	● Brown
20	● Yellow	● Grey
21	● White/Blue	● Blue
22	● White/Blue	● Orange
23	● White/Blue	● Green
24	● White/Blue	● Brown
25	● White/Blue	● Grey
26	● Red/Blue	● Blue
27	● Red/Blue	● Orange
28	● Red/Blue	● Green
29	● Red/Blue	● Brown
30	● Red/Blue	● Grey
31	● Blue/Black	● Blue
32	● Blue/Black	● Orange
33	● Blue/Black	● Green
34	● Blue/Black	● Brown
35	● Blue/Black	● Grey
36	● Yellow/Blue	● Blue
37	● Yellow/Blue	● Orange



PAIR NO.	A WIRE	B WIRE
38	 Yellow/Blue	 Green
39	 Yellow/Blue	 Brown
40	 Yellow/Blue	 Grey
41	 White/Orange	 Blue
42	 White/Orange	 Orange
43	 White/Orange	 Green
44	 White/Orange	 Brown
45	 White/Orange	 Grey
46	 Orange/Red	 Blue
47	 Orange/Red	 Orange
48	 Orange/Red	 Green
49	 Orange/Red	 Brown
50	 Orange/Red	 Grey

Individually screened pairs will be number coded all with Pair 1 colouring