

**ELAND<sup>®</sup>**  
**CABLES**

# BS 5308 Part 2 Type 1 PVC / ICAM / PVC Cable



Eland Product Group: I

## APPLICATION

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 1 cables are generally designed for indoor use and in environments where mechanical protection is not required. Individually screened to enhanced signal security.

## CHARACTERISTICS

**Voltage Rating (U<sub>0</sub>/U)**  
300/500V

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

**Minimum Bending Radius**  
Fixed: 6 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

**Pairing**  
Two insulated conductors uniformly twisted together

**Insulation**  
PVC (Polyvinyl Chloride)

**Individual and Collective Screen**  
Al/PET (Aluminium/Polyester Tape)

**Drain Wire**  
Tinned copper

**Sheath**  
PVC (Polyvinyl Chloride)

**Sheath Colour**  
● Blue ● Black

## STANDARDS

BS/PAS 5308, BS EN 60228

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



## ISO/IEC 17025 LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.



## REGULATORY COMPLIANCE

This cable meets the requirements of the Low Voltage Directive 2014/35/EU and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.



## DIMENSIONS

ELAND PART NO.	NO. OF PAIRS/TRIPLE	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL OVERALL DIAMETER mm
I0205P2T1ICP**	2P	0.5	10.7
I0275P2T1ICP**	2P	0.75	11.4
I0210P2T1ICP**	2P	1	11.3
I0215P2T1ICP**	2P	1.5	13.1
I0225P2T1ICP**	2P	2.5	14.5
I0305P2T1ICP**	3P	0.5	12.1
I0375P2T1ICP**	3P	0.75	12.8
I0310P2T1ICP**	3P	1	13.4
I0315P2T1ICP**	3P	1.5	14.5
I0325P2T1ICP**	3P	2.5	15.9
I0505P2T1ICP**	5P	0.5	13.6
I0575P2T1ICP**	5P	0.75	14.5
I0510P2T1ICP**	5P	1	14.5
I0515P2T1ICP**	5P	1.5	16.8
I0525P2T1ICP**	5P	2.5	18.9
I1005P2T1ICP**	10P	0.5	19
I1075P2T1ICP**	10P	0.75	20.4
I1010P2T1ICP**	10P	1	20.4
I1015P2T1ICP**	10P	1.5	23.9
I1025P2T1ICP**	10P	2.5	26.9
I1505P2T1ICP**	15P	0.5	21.9
I1575P2T1ICP**	15P	0.75	23.8
I1510P2T1ICP**	15P	1	23.7
I1515P2T1ICP**	15P	1.5	27.6
I1525P2T1ICP**	15P	2.5	31.1
I2005P2T1ICP**	20P	0.5	24.6
I2075P2T1ICP**	20P	0.75	26.8
I2010P2T1ICP**	20P	1	26.7
I2015P2T1ICP**	20P	1.5	31.1
I2025P2T1ICP**	20P	2.5	35.3
I3005P2T1ICP**	30P	0.5	29.2
I3075P2T1ICP**	30P	0.75	31.5
I3010P2T1ICP**	30P	1	31.4
I3015P2T1ICP**	30P	1.5	36.8
I3025P2T1ICP**	30P	2.5	41.8

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

P = Pairs

## 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

## ELECTRICAL CHARACTERISTICS

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

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.