



PAS BS 5308 Part 2 Type 2 PVC/ICAM/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 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. Individually screened for enhanced signal security.

CHARACTERISTICS

Voltage Rating (U₀/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
0.5mm² - 0.75mm²: Class 5 flexible copper conductor
1mm² and above: Class 2 stranded copper conductor

Insulation
PVC (Polyvinyl Chloride)

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

Drain Wire
Tinned copper

Bedding
PVC (Polyvinyl Chloride)

Armour
SWA (Galvanised 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

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 is compliant with European Regulation EN 50575, the Construction Products Regulation.



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	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm
I0205P2T2ICP**	2P	0.5	15.3
I0275P2T2ICP**	2P	0.75	16
I0210P2T2ICP**	2P	1	15.9
I0215P2T2ICP**	2P	1.5	18.6
I0225P2T2ICP**	2P	2.5	20
I0305P2T2ICP**	3P	0.5	15.9
I0375P2T2ICP**	3P	0.75	16.6
I0310P2T2ICP**	3P	1	16.8
I0315P2T2ICP**	3P	1.5	20.1
I0325P2T2ICP**	3P	2.5	23.5
I0505P2T2ICP**	5P	0.5	19.1
I0575P2T2ICP**	5P	0.75	20
I0510P2T2ICP**	5P	1	20
I0515P2T2ICP**	5P	1.5	22.5
I0525P2T2ICP**	5P	2.5	25.5
I1005P2T2ICP**	10P	0.5	25.6
I1075P2T2ICP**	10P	0.75	27
I1010P2T2ICP**	10P	1	27
I1015P2T2ICP**	10P	1.5	30.7
I1025P2T2ICP**	10P	2.5	33.9
I1505P2T2ICP**	15P	0.5	28.7
I1575P2T2ICP**	15P	0.75	30.6
I1510P2T2ICP**	15P	1	30.5
I1515P2T2ICP**	15P	1.5	34.6
I1525P2T2ICP**	15P	2.5	39.3
I2005P2T2ICP**	20P	0.5	31.6
I2075P2T2ICP**	20P	0.75	33.8
I2010P2T2ICP**	20P	1	33.7
I2015P2T2ICP**	20P	1.5	39.3
I2025P2T2ICP**	20P	2.5	43.7
I3005P2T2ICP**	30P	0.5	36.4
I3075P2T2ICP**	30P	0.75	39.7
I3010P2T2ICP**	30P	1	39.6
I3015P2T2ICP**	30P	1.5	45.2
I3025P2T2ICP**	30P	2.5	51.6

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

P = Pairs

CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm ²	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 ²	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