

# PAS5308 Part 1 Type 1 ICAM PVC

Flame retardant instrumentation cable



## Application

PAS5308 cables are designed to carry communication and control signals in a variety of installation types including those found in 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 1 Type 1 cables are generally designed for indoor use and in environments where mechanical protection is not required.

## Construction

<b>Conductor</b>	: Class 1 solid, Class 2 stranded or Class 5 flexible copper conductor acc. to BS EN 60228.
<b>Pairing</b>	: Two insulated conductors uniformly twisted together.
<b>Insulation</b>	: XLPE, cross linked polyethylene Type 03 (BS6234)
<b>Binding tape</b>	: PET (Polyester Tape)
<b>Shielding</b>	: AL/PET (Aluminium/Polyester Tape)
<b>Drain wire</b>	: Tinned copper
<b>Sheath</b>	: PVC (Polyvinyl Chloride) Type TM1 acc. to BS EN 50363
<b>Rated voltage</b>	: 300/500 V

## Outer Sheath Colours

**Available colours** : Blue or Black

## Installation recommendations

<b>Minimum Bending Radius Fixed</b>	: 12xD
<b>Operation Temp. Rating Fixed</b>	: -30 °C to 90 °C

## Standards applied

BS 5308	BS EN 50363
BS EN 60228	BS EN/IEC 60332-1
BS 6234	BS EN/IEC 60332-3-24

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## Range and Dimensions

Article Code	Number of Paires (P) / Triple (T)	Nominal Cross Sectional Area	Nominal Overall Diameter
		mm <sup>2</sup>	mm <sup>2</sup>
P5002P0.5BOOBK2	2P	0.5	10.7
P5002P0.75BOOBK2	2P	0.75	11.4
P5002P1.0BOOBK2	2P	1	11.3
P5002P1.5BOOBK2	2P	1.5	13.1
P5002P2.5BOOBK2	2P	2.5	14.5
P5003P0.5BOOBK2	3P	0.5	12.1
P5003P0.75BOOBK2	3P	0.75	12.8
P5003P1.0BOOBK2	3P	1	13.4
P5003P1.5BOOBK2	3P	1.5	14.5
P5003P2.5BOOBK2	3P	2.5	15.9
P5005P0.5BOOBK2	5P	0.5	13.6
P5005P0.75BOOBK2	5P	0.75	14.5
P5005P1.0BOOBK2	5P	1	14.5
P5005P1.5BOOBK2	5P	1.5	16.8
P5005P2.5BOOBK2	5P	2.5	18.9
P5010P0.5BOOBK2	10P	0.5	19
P5010P0.75BOOBK2	10P	0.75	20.4
P5010P1.0BOOBK2	10P	1	20.4
P5010P1.5BOOBK2	10P	1.5	23.9
P5010P2.5BOOBK2	10P	2.5	26.9
P5015P0.5BOOBK2	15P	0.5	21.9
P5015P0.75BOOBK2	15P	0.75	23.8
P5015P1.0BOOBK2	15P	1	23.7
P5015P1.5BOOBK2	15P	1.5	27.6
P5015P2.5BOOBK2	15P	2.5	31.1
P5020P0.5BOOBK2	20P	0.5	24.6
P5020P0.75BOOBK2	20P	0.75	26.8
P5020P1.0BOOBK2	20P	1	26.7
P5020P1.5BOOBK2	20P	1.5	31.1
P5020P2.5BOOBK2	20P	2.5	35.3
P5030P0.5BOOBK2	30P	0.5	29.2
P5030P0.75BOOBK2	30P	0.75	31.5
P5030P1.0BOOBK2	30P	1	31.4
P5030P1.5BOOBK2	30P	1.5	36.8
P5030P2.5BOOBK2	30P	2.5	41.8

P = Pairs T = Triple Q = Quad

## 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>	Maximum Capacitance pF/m		Minimum Insulation Resistance at 20 °C Mohms/km	Maximum L/R Ration µH/ohms
	Cables with collective screen only	1 Pair, 2 Pairs, 1 Triple collectively screened		
0.5	75	115	>5	25
0.75	75	115	>5	25
1	75	115	>5	25
1.5	85	120	>5	40
2.5	85	120	>5	65

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## Core Colours

Pair No.	A Wire	B Wire
1	Black	Blue
2	Black	Green
3	Blue	Green
4	Black	Brown
5	Blue	Brown
6	Green	Brown
7	Black	White
8	Blue	White
9	Green	White
10	Brown	White
11	Black	Red
12	Blue	Red
13	Green	Red
14	Brown	Red
15	White	Red
16	Black	Orange
17	Blue	Orange
18	Green	Orange
19	Brown	Orange
20	White	Orange
21	Red	Orange
22	Black	Yellow
23	Blue	Yellow
24	Green	Yellow
25	Brown	Yellow
26	White	Yellow
27	Red	Yellow
28	Orange	Yellow
29	Black	Grey
30	Blue	Grey
31	Green	Grey
32	Brown	Grey
33	White	Grey
34	Red	Grey
35	Orange	Grey
36	Yellow	Grey
37	Black	Grey
38	Blue	Grey
39	Green	Violet
40	Brown	Violet
41	White	Violet
42	Red	Violet
43	Orange	Violet
44	Yellow	Violet
45	Grey	Violet
46	Black	Turquoise
47	Blue	Turquoise
48	Green	Turquoise
49	Brown	Turquoise
50	White	Turquoise

### NOTICE

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