

# BS5308 PAS 5308 Part 2 Type 1 Instrumentation Cable

Designed to carry communication and control signals. BS 5308 cables are designed to form part of an intrinsically safe system.

Part 1 cables have an insulation of PE or XLPE.

Type 2 cables suitable for direct burial.

The PVC sheathing material has an OI above 30% and HCL below 15%

and the LSZH material is of type LTS3. Collectively and individually screened pairs are available within the range.

## Construction

### Conductor

Class 1 solid, Class 2 stranded or Class 5 copper conductor according to BS EN 60228 (previously to 6360)

### Pairing

Two insulated conductors uniformly twisted together

### Insulation

PVC (Polyvinyl Chloride) Type TM1 according to BS EN 50363

### Shielding

AL/PET (Aluminium/Polyester Tape)

### Drain Wire

Tinned copper

### Sheath

PVC (Polyvinyl Chloride) Type TM1 according to BS EN 50363

### Voltage Rating (Uo/U)

300/500V

### Temperature Rating

Fixed: -30°C to +75°C

### Minimum Bending Radius

Fixed: 18 x overall diameter

### Sheath Colour

Blue Black

## CABLE STANDARDS

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



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## Collective screen

NO. OF PAIRS/TRIPLE	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL DIAMETER Mm
1 pair	0.5	7
1 pair	0.75	7.4
1 pair	1	7.4
1 pair	1.5	8.3
1 pair	2.5	9.1
2 pair	0.5	7.9
2 pair	0.75	8.4
2 pair	1	8.5
2 pair	1.5	9.7
2 pair	2.5	10.7
1 triple	0.5	7.3
1 triple	0.75	7.7
1 triple	1	7.7
1 triple	1.5	8.9
1 triple	2.5	9.7
5 pair	0.5	13.1
5 pair	0.75	13.8
5 pair	1	14.2
5 pair	1.5	16.4
5 pair	2.5	18.2



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Collective screen

NO. OF PAIRS/TRIPLE	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL DIAMETER Mm
10 pair	0.5	17.2
10 pair	0.75	18.4
10 pair	1	18.9
10 pair	1.5	21.6
10 pair	2.5	25.1

20 pair	0.5	22.3
20 pair	0.75	24.6
20 pair	1	24.6
20 pair	1.5	28.5
20 pair	2.5	39.8



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Individual & Collective screen

NO. OF PAIRS/TRIPLE	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL DIAMETER Mm
2 pair	0.5	10.7
2 pair	0.75	11.4
2 pair	1	11.4
2 pair	1.5	13.1
2 pair	2.5	14.5
5 pair	0.5	13.6
5 pair	0.75	14.5
5 pair	1	14.6
5 pair	1.5	16.8
5 pair	2.5	18.9
10 pair	0.5	19
10 pair	0.75	20.4
10 pair	1	20.5
10 pair	1.5	23.9
10 pair	2.5	26.9
20 pair	0.5	24.6
20 pair	0.75	26.8
20 pair	1	26.8
20 pair	1.5	31.1
20 pair	2.5	35.3



## Pair colour code

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

The information contained within this data sheet is for guidance only.  
 Cable and gland sizes are nominal and may vary according to different manufacturer's tolerances.  
 Every possible effort is made to ensure that the Information contained in this data sheet is correct.  
 However, we reserve the right to change the information or specification at any time in the light of  
 technical developments or revisions.  
 References to or extracts from British Standards, current IEE regulations or other regulatory bodies  
 should be verified with these organisations.