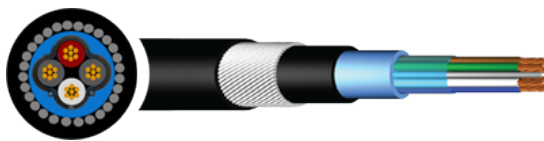


## PAS5308 Part2,Type2 Instrumentation Cable Overall Screened - 0.5mm<sup>2</sup> to 2.5mm<sup>2</sup>



### Description

PAS5308 Part 2 Type 2 construction, overall screened instrumentation cable. The cable features plain annealed copper conductors, PVC insulated, laid up to form pairs, collective aluminium/mylar foil tape screen complete with 0.5mm<sup>2</sup> drain wire, PVC bedding, galvanised steel wire armour, PVC outer sheath reduced propagation. Blue or Black. Flame propagation to BS4066 Parts 1 and 3, BS EN 50265, BS EN 50266, IEC 60332-3-24.

Manufactured to PAS5308, instrumentation cables are intrinsically safe and designed for use in communication and instrumentation applications in and around process industries for transmission of signals in control systems. The signals can be analogue or digital from a variety of sensors and transducers.

### Key Features



**Voltage Rating**  
300/500 Volts



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



**Flame Retardancy**  
BS EN/IEC 60332-1  
BS EN/IEC 60332-3-24



**Temperature Limits**  
Fixed: -40°C to +70°C

### Core Colours

[PAS5308 pair identification colour chart](#)

### Standards

- PAS5308 / BS5308
- BS EN/IEC 60332-1-2
- BS EN/IEC 60228
- BS EN/IEC 60332-3-24

### Construction

- **Conductor:** Under 1mm<sup>2</sup> Class 5 flexible copper conductor  
1mm<sup>2</sup> & above Class 2 stranded copper conductor
- **Insulation:** Polyvinyl Chloride (PVC) Laid up to form pairs
- **Screen:** Collective Aluminium/mylar tape with 0.5mm drain wire
- **Bedding:** Polyvinyl Chloride (PVC)
- **Armour:** Galvanised Steel Wire Armour (SWA)
- **Outer Sheath:** Polyvinyl Chloride (PVC)
- **Sheath Colour:** Blue or Black

### QA Lab

#### Cleveland Cable Test & Training Lab

Our state-of-the-art cable testing facility ensures that every cable meets the highest standards of quality and compliance through continuous, rigorous testing. Where applicable, cables are independently tested and certified by BASEC to ensure full compliance.



#### CPR

Cleveland Cable Company is committed to compliance with the Construction Products Regulation (CPR). Where applicable, all cables manufactured after 1st July 2017 have been assessed in accordance with CPR requirements, with full supporting documentation available.



### Our Sustainability Commitment

We are committed to the journey to Net Zero as a business partner, an employer and a community member.

By thinking and acting sustainably, we deliver excellent customer service while reducing carbon emissions in collaboration with our customers and suppliers.



#### ecovadis

Cleveland Cable Company has been independently assessed by EcoVadis, a globally recognised provider of business sustainability ratings. Our score places us among the top 35% of companies evaluated worldwide, reflecting our strong commitment to environmental, social, and ethical performance

ecovadis

PAS5308 Part2,Type2 Instrumentation Cable Overall Screened - 0.5mm² to 2.5mm² - Dimensions

| Reference | Conductor Size (mm2) | No Of Pairs | Stranding(mm) | Overall Diameter(mm) | Weight(Kg/Km) | Nylon Cleat Size | Gland Size |
|-----------|----------------------|-------------|---------------|----------------------|---------------|------------------|------------|
| 7325B     | 0.5                  | 1 Triple    | 16/0.20       | 11                   | 259           | 0.5              | 20/16      |
| 7318B     | 0.5                  | 1           | 16/0.20       | 10.8                 | 242           | 0.5              | 20/16      |
| 7319B     | 0.5                  | 2           | 16/0.20       | 11.7                 | 288           | 0.5              | 20S        |
| 7320B     | 0.5                  | 5           | 16/0.20       | 17.3                 | 535           | 0.7              | 20         |
| 7321B     | 0.5                  | 10          | 16/0.20       | 22.3                 | 868           | 0.9              | 25         |
| 7322B     | 0.5                  | 20          | 16/0.20       | 28.5                 | 1466          | 1.2              | 32         |
| 7323B     | 0.5                  | 30          | 16/0.20       | 33.3                 | 1944          | 1.4              | 32         |
| 7324B     | 0.5                  | 50          | 16/0.20       | 41.5                 | 3360          | 1.8              | 50S        |
| 7362B     | 0.75                 | 1 Triple    | 24/0.20       | 11.4                 | 288           | 0.5              | 20S        |
| 7355B     | 0.75                 | 1           | 24/0.20       | 11.1                 | 270           | 0.5              | 20/16      |
| 7356B     | 0.75                 | 2           | 24/0.20       | 12.3                 | 330           | 0.5              | 20S        |
| 7357B     | 0.75                 | 5           | 24/0.20       | 19.2                 | 719           | 0.8              | 20         |
| 7358B     | 0.75                 | 10          | 24/0.20       | 24.7                 | 1150          | 1.0              | 25         |
| 7359B     | 0.75                 | 20          | 24/0.20       | 30.7                 | 1704          | 1.2              | 32         |
| 7360B     | 0.75                 | 30          | 24/0.20       | 36.9                 | 2570          | 1.6              | 40         |
| 7361B     | 0.75                 | 50          | 24/0.20       | 46.4                 | 4400          | 2.0              | 50S        |
| 7396B     | 1.5                  | 1 Triple    | 7/0.53        | 12.6                 | 357           | 0.5              | 20S        |
| 7389B     | 1.5                  | 1           | 7/0.53        | 12.3                 | 312           | 0.5              | 20S        |
| 7390B     | 1.5                  | 2           | 7/0.53        | 13.7                 | 397           | 0.6              | 20S        |
| 7391B     | 1.5                  | 5           | 7/0.53        | 21.5                 | 918           | 0.9              | 25         |
| 7392B     | 1.5                  | 10          | 7/0.53        | 27.8                 | 1466          | 1.1              | 32         |
| 7393B     | 1.5                  | 20          | 7/0.53        | 35.1                 | 2519          | 1.4              | 40         |
| 7394B     | 1.5                  | 30          | 7/0.53        | 41.9                 | 3352          | 1.8              | 50S        |
| 7395B     | 1.5                  | 50          | 7/0.53        | 53.4                 | 5310          | TC9              | 63S        |
| 7413B     | 2.5                  | 1 Triple    | 7/0.67        | 13.7                 | 407           | 0.6              | 20S        |
| 7408B     | 2.5                  | 1           | 7/0.67        | 13.1                 | 395           | 0.6              | 20S        |
| 7409B     | 2.5                  | 2           | 7/0.67        | 15.9                 | 490           | 0.6              | 20         |
| 7410B     | 2.5                  | 5           | 7/0.67        | 26.5                 | 1430          | 1.1              | 20         |
| 7411B     | 2.5                  | 10          | 7/0.67        | 35.1                 | 2235          | 1.4              | 40         |
| 7412B     | 2.5                  | 20          | 7/0.67        | 46.7                 | 3935          | 2.0              | 50         |



## PART 2 PAIR COLOURS

| PAIR | A          | B      |
|------|------------|--------|
| 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   |

| PAIR | A              | B      |
|------|----------------|--------|
| 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 |
| 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   |

For individual screened pairs, identification will be White/Blue numbered pairs.

Two pair collectively screened cables are in quad formation colour coded in rotation, Black, Blue, Green, Brown

Single triple will be Blue, White, Orange.

## PART 2 ELECTRICAL CHARACTERISTICS

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

## PART 2 CONDUCTOR RESISTANCE

| NOMINAL CROSS<br>SECTIONAL AREA<br><br>(MM <sup>2</sup> ) | CONDUCTOR CLASS | MAXIMUM RESISTANCE CONDUCTOR<br>AT 20°C<br><br>Ω/Km |
|-----------------------------------------------------------|-----------------|-----------------------------------------------------|
| 0.5                                                       | 5               | 39                                                  |
| 0.75                                                      | 5               | 26                                                  |
| 1                                                         | 1               | 18.1                                                |
| 1.5                                                       | 2               | 12.1                                                |

THE INFORMATION CONTAINED WITHIN THIS DATASHEET IS FOR GUIDANCE ONLY AND IS SUBJECT TO CHANGE WITHOUT NOTICE OR LIABILITY. WE BELIEVE THE INFORMATION IS CORRECT AT THE TIME OF PUBLICATION. PLEASE NOTE WHEN SELECTING CABLE ACCESSORIES THAT ACTUAL CABLE DIMENSIONS MAY VARY DUE TO MANUFACTURING TOLERANCES.