

PAS5308 Part1,Type2 Instrumentation Cable, Individually Screened LSZH - 0.5mm² to 1.5mm²



Description

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: -15°C to +70°C

Core Colours

Core IDs

[PAS5308 pair identification colour chart](#)

Standards

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

Construction

- **Conductor:** Under 1mm² Class 5 flexible copper conductor
1mm² & above Class 2 stranded copper conductor
- **Insulation:** Cross-Linked Polyethylene (XLPE) Laid up to form pairs
- **Screen:** Aluminium/mylar foil tape individually screened pairs complete with 0.5mm drain wire
- **Overall Tape Screen:** Aluminium/Polyester Tape (AL/PET) with 0.5mm drain wire
- **Bedding:** Low Smoke Zero Halogen (LSZH)
- **Armour:** Galvanised Steel Wire Armour (SWA)
- **Outer Sheath:** Low Smoke Zero Halogen (LSZH)

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 Part1,Type2 Instrumentation Cable, Individually Screened LSZH - 0.5mm² to 1.5mm² - Dimensions

| Reference | Conductor Size (mm ²) | No Of Pairs | Stranding(mm) | Overall Diameter(mm) | Weight(Kg/Km) | Nylon Cleat Size | Gland Size |
|-----------|-----------------------------------|-------------|---------------|----------------------|---------------|------------------|------------|
| 7230B | 0.5 | 2 | 16/0.2 | 16.8 | 460 | 0.7 | 20 |
| 72131BK | 0.5 | 5 | 16/0.2 | 19.9 | 730 | 0.8 | 20 |
| 72132BK | 0.5 | 10 | 16/0.2 | 19.9 | 1202 | 1.1 | 32 |
| 7267B | 0.75 | 2 | 24/0.20 | 16.6 | 518 | 0.7 | 20 |
| 7268B | 0.75 | 5 | 24/0.20 | 21 | 805 | 0.9 | 25 |
| 7269B | 0.75 | 10 | 24/0.20 | 28.5 | 1323 | 1.2 | 32 |
| 7270B | 0.75 | 20 | 24/0.20 | 36.8 | 2323 | 1.6 | 40 |
| 7271B | 0.75 | 30 | 24/0.20 | 36.9 | 2570 | 1.6 | 40 |
| 72563BK | 0.75 | 2 Triple | 24/0.20 | 15.9 | 476 | 0.7 | 20 |
| 72566BK | 0.75 | 5 Triple | 24/0.20 | 17.8 | 670 | 0.8 | 20 |
| 72569BK | 0.75 | 10 Triple | 24/0.20 | 29 | 1456 | 1.2 | 32 |
| 7296B | 1.5 | 2 | 7/0.53 | 19.4 | 707 | 707 | 20 |
| 7297B | 1.5 | 5 | 7/0.53 | 24.4 | 1185 | 1.0 | 25 |
| 7298B | 1.5 | 10 | 7/0.53 | 32.5 | 1668 | 1.4 | 32 |
| 7299B | 1.5 | 20 | 7/0.53 | 41.6 | 2956 | 1.8 | 50S |

PART 1 PAIR COLOURS

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

| PAIR | A | B |
|------|--------|-----------|
| 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 | Violet |
| 38 | Blue | Violet |
| 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 |

For individual screened pairs, identification will be Black/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 , Black, Green

PART 1 ELECTRICAL CHARACTERISTICS

| NOMINAL CROSS SECTIONAL AREA (MM ²) | MUTUAL CAPACITANCE pF/m | | | MINIMUM INSULATION RESISTANCE AT 20° C | MAXIMUM L/R RATIO |
|---|------------------------------------|---|---|--|-------------------|
| | Cables with Collective Screen Only | 1 Pair, 2 Pairs, 1 Triple Collectively Screened | Cables with Individually Screened Pairs | mohms/km | µH/ohms |
| 0.5 | 75 | 115 | 115 | >5 | 25 |
| 0.75 | 75 | 115 | 115 | >5 | 25 |
| 1 | 75 | 115 | 115 | >5 | 25 |
| 1.5 | 85 | 120 | 120 | >5 | 40 |

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.