

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



















### Description

Manufactured to PAS5308, individually screened 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: Polyethylene (PE) 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: Polyethylene (PE)
- 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 Part1, Type2 Instrumentation Cable, Individually Screened - 0.5mm² to 1.5mm² - Dimensions

Reference	Conductor Size (mm2)	No Of Pairs	Stranding(mm)	Overall Diameter(mm)	Weight(Kg/Km)	Nylon Cleat Size	Gland Size
7130B	0.5	2	16/0.20	16.8	460	0.7	0.7
7131B	0.5	5	16/0.20	19.9	730	0.8	0.8
7132B	0.5	10	16/0.20	26.9	1300	1.1	1.1
7133BU	0.5	20	16/0.20	1634.3	1870	1.4	1.4
7133BK	0.5	20	16/0.20	34.3	1870	1.4	1.4
7134B	0.5	30	16/0.20	40.5	2620	1.6	1.6
7135B	0.5	50	16/0.20	51.5	4180	TC9	TC9
7167B	0.75	2	24/0.20	16.6	16.6	518	20
7168B	0.75	5	24/0.20	21	805	805	25
7169B	0.75	10	24/0.20	28.5	1323	1.2	32
7170B	0.75	20	24/0.20	36.8	2323	1.6	40
7171B	0.75	30	24/0.20	42.9	3312	1.8	50S
7172B	0.75	50	24/0.20	54	5520	TC9	63S
7201B	1.5	2	7/0.53	19.4	707	0.8	20
7202BU	1.5	5	7/0.53	24.4	1185	1.0	25
7202BK	1.5	5	7/0.53	24.43	1185	1.0	25
7203B	1.5	10	7/0.53	32.5	1668	1.4	32
7204B	1.5	20	7/0.53	41.6	2956	1.8	50S



















# PART 1 PAIR COLOURS

PAIR	Α	В	
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	Α	В	
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		MUTUAL CAPACITANCE pF/m	MINIMUM INSULATION RESISTANCE AT 20°C	MAXIMUM L/R RATIO	
(MM²)	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.

















