

# PAS5308 Part1, Type1 Instrumentation Cable, Overall Screened - 0.5 mm<sup>2</sup> to 1.5 mm<sup>2</sup>



## **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: 6 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**

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

#### 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: Collective Aluminium/mylar tape with 0.5mm drain wire
- 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.



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, Type1 Instrumentation Cable, Overall Screened - 0.5 mm² to 1.5 mm² - Dimensions

Reference	Conductor Size (mm2)	No Of Pairs	Stranding(mm)	Outside Diameter(mm)	Weight(Kg/Km)	Brass A2 Gland
7107B	0.5	1	16/0.20	6.1	69	20/16
7100	0.5	1	16/0.20	6	60	20/16
7101B	0.5	2	16/0.20	6.9	75	20/16
7102B	0.5	5	16/0.20	12.1	190	20
7103B	0.5	10	16/0.20	16.2	305	25
7104B	0.5	20	16/0.20	21.3	518	32
7105B	0.5	30	16/0.20	25.9	759	32
7106B	0.5	50	16/0.20	32.9	1251	50S
7143B	0.75	1	24/0.20	8.3	83	20/16
7136B	0.75	1	24/0.20	6.3	69	20/16
7137B	0.75	2	24/0.20	7.3	99	20/16
7138B	0.75	5	24/0.20	13.3	242	20
7139BU	0.75	10	24/0.20	17.7	380	25
7139BK	0.75	10	24/0.20	17.720	380	25
7140B	0.75	20	24/0.20	23.5	684	32
7141B	0.75	30	24/0.20	28.5	989	40
7142B	0.75	50	24/0.20	36.4	1670	50S
7178B	1.5	1	7/0.53	8.4	115	205
7173B	1.5	1	7/0.53	7.3	87	20/16
7174B	1.5	2	7/0.53	8.7	145	205
7175B	1.5	5	7/0.53	15.4	345	25
7176B	1.5	10	7/0.53	20.6	575	32
7177B	1.5	20	7/0.53	27.5	1075	40















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# 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.

















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