

PAS5308 Part 1 Type 3 ICAM PVC

Steel wired armoured, lead sheathed and flame retardant instrumentation cable



Application

PAS5308 cables are designed to carry communication and control signals in a variety of installation types including those found in the petrochemicals industry. The signals can be of analogue, data or voice type and from a variety of transducers such as pressure, proximity and microphone. Part 1 Type 3 cables are generally designed where a greater degree of mechanical and chemical protection is required or direct burial at a suitable depth. For installations where fire, smoke emission and toxic fumes create a potential risk to life and equipment.

Construction

Conductor	: Class 1 solid, Class 2 stranded or Class 5 flexible copper conductor acc. BS EN 60228.
Pairing	: Two insulated conductors uniformly twisted together.
Insulation	: XLPE, cross linked polyethylene Type 03 (BS6234)
Binding tape	: PET (Polyester Tape)
Shielding	: AL/PET (Aluminium/Polyester Tape)
Drain wire	: Tinned copper
Bedding	: PE (Polyethylene) Type 03 according to BS 6234
Covering	: Lead
Inner Sheath	: PE (Polyethylene) Type 03 according to BS 6234
Armour	: Galvanized steel wires
Outer sheath	: PVC (Polyvinyl Chloride) Type TM1 according to BS EN 50363
Rated voltage	: 300/500 V

Outer Sheath Colours

Available colours : Blue or Black

Installation recommendations

Minimum Bending Radius Fixed	: 18xD
Operation Temp. Rating Fixed	: -30 °C to 90 °C

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Standards applied

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

Range and Dimensions

Article Code	Number of Paires (P) / Triple (T)	Nominal Cross Sectional Area mm ²	Nominal Overall Diameter mm ²
P53D02P0.5A00BK2	2P	0.5	20
P53D02P.75A00BK2	2P	0.75	21.9
P53D02P1.0A00BK2	2P	1	20.8
P53D02P1.5A00BK2	2P	1.5	22.6
P53D02P2.5A00BK2	2P	2.5	25.3
P53D03P0.5A00BK2	3P	0.5	21.9
P53D03P.75A00BK2	3P	0.75	23.2
P53D03P1.0A00BK2	3P	1	23.1
P53D03P1.5A00BK2	3P	1.5	25.1
P53D03P2.5A00BK2	3P	2.5	30.1
P53D05P0.5A00BK2	5P	0.5	23.1
P53D05P.75A00BK2	5P	0.75	25.1
P53D05P1.0A00BK2	5P	1	25.3
P53D05P1.5A00BK2	5P	1.5	28.0
P53D05P2.5A00BK2	5P	2.5	40.5
P53D10P0.5A00BK2	10P	0.5	30.2
P53D10P.75A00BK2	10P	0.75	31.8
P53D10P1.0A00BK2	10P	1	32.0
P53D10P1.5A00BK2	10P	1.5	37.1
P53D10P2.5A00BK2	10P	2.5	45.1
P53D15P0.5A00BK2	15P	0.5	33.5
P53D15P.75A00BK2	15P	0.75	36.7
P53D15P1.0A00BK2	15P	1	36.9
P53D15P1.5A00BK2	15P	1.5	41.2
P53D15P2.5A00BK2	15P	2.5	51.3
P53D20P0.5A00BK2	20P	0.5	37.8
P53D20P.75A00BK2	20P	0.75	40.1
P53D20P1.0A00BK2	20P	1	40.3
P53D20P1.5A00BK2	20P	1.5	45.1
P53D20P2.5A00BK2	20P	2.5	58.6
P53D30P0.5A00BK2	30P	0.5	43.0
P53D30P.75A00BK2	30P	0.75	45.2
P53D30P1.0A00BK2	30P	1	45.4
P53D30P1.5A00BK2	30P	1.5	53.0
P53D30P2.5A00BK2	30P	2.5	72.2

P = Pairs T= Triple Q = Quad

Conductors

Nominal Cross Sectional Area mm ²	Conductor Class	Maximum DC Resistance of Conductor at 20 °C Ohms/km
0.5	5	39
0.75	5	26
1	1	18.1
1.5	2	12.1
2.5	2	7.41

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Electrical characteristics

Nominal Cross Sectional Area mm ²	Maximum Capacitance pF/m		Minimum Insulation Resistance at 20 °C Mohms/km	Maximum L/R Ration μH/ohms
	Cables with collective screen only	1 Pair, 2 Pairs, 1 Triple collectively screened		
0.5	75	115	>5	25
0.75	75	115	>5	25
1	75	115	>5	25
1.5	85	120	>5	40
2.5	85	120	>5	65

Core Colours

Pair No.	A Wire	B Wire
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
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	Grey
38	Blue	Grey
39	Green	Violet
40	Brown	Violet
41	White	Violet
42	Red	Violet
43	Orange	Violet
44	Yellow	Violet
45	Grey	Violet

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Pair No.	A Wire	B Wire
46	Black	Turquoise
47	Blue	Turquoise
48	Green	Turquoise
49	Brown	Turquoise
50	White	Turquoise

NOTICE

Incore Cables has endeavored to ensure the accuracy of the data in this publication, however we cannot be liable for the consequences of errors or omissions. All data is subject to change without notice. The installer and/or user assumes all liability for the consequences of the installation and/or use of any of our products in contravention of any applicable law, regulation or code.

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