

PAS5308 Part 1 Type 2 ICAM PVC

Steel wired armoured 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 petrochemical industry. The signals can be of analogue, data or voice type and from a variety of transducers such as pressure, proximity or microphone. PAS5308 cables are designed to form part of an intrinsically safe system and the technical information required to determine their suitability for this application is contained within the datasheet. Part 1 Type 2 cables are designed where a greater degree of mechanical protection is required namely outdoor / exposed or direct burial at suitable depth. Being PAS5308 Part 1 the insulation material is XLPE. The PVC sheathing material has an OI above 30% and HCL below 15%.

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)
Shielding	: AL/PET (Aluminium/Polyester Tape)
Drain wire	: Tinned copper
Bedding	: PE (Polyethylene) Type 03 according to BS 6234
Armour	: Galvanized SWA (Steel Wire Armour)
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

Standards applied

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

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Range and Dimensions

Article Code	Number of Paires (P) / Triple (T)	Nominal Cross Sectional Area	Nominal Overall Diameter
		mm ²	mm ²
P5201P0.5BOOBK2	1P	0.5	11.4
P5201P0.75BOOBK2	1P	0.75	11.8
P5201P1.0BOOBK2	1P	1	11.8
P5201P1.5BOOBK2	1P	1.5	12.9
P5201P2.5BOOBK2	1P	2.5	13.7
P5201T0.5BOOBK2	1T	0.5	11.7
P5201T0.75BOOBK2	1T	0.75	12.1
P5201T1.0BOOBK2	1T	1	12.3
P5201T1.5BOOBK2	1T	1.5	13.5
P5201T2.5BOOBK2	1T	2.5	14.3
P5202P0.5BOOBK2	2P (Q)	0.5	12.3
P5202P0.75BOOBK2	2P (Q)	0.75	13
P5202P1.0BOOBK2	2P (Q)	1	13
P5202P1.5BOOBK2	2P (Q)	1.5	14.3
P5202P2.5BOOBK2	2P (Q)	2.5	15.3
P5205P0.5BOOBK2	5P	0.5	17.9
P5205P0.75BOOBK2	5P	0.75	19.3
P5205P1.0BOOBK2	5P	1	19.7
P5205P1.5BOOBK2	5P	1.5	22.1
P5205P2.5BOOBK2	5P	2.5	24.1
P5210P0.5BOOBK2	10P	0.5	22.9
P5210P0.75BOOBK2	10P	1	24.3
P5210P1.0BOOBK2	10P	1.5	28.4
P5210P1.5BOOBK2	10P	2.5	32.1
P5210P2.5BOOBK2	10P	0.75	25.5
P5215P0.5BOOBK2	15P	0.5	26.4
P5215P0.75BOOBK2	15P	0.75	28.7
P5215P1.0BOOBK2	15P	1	28.1
P5215P1.5BOOBK2	15P	1.5	32.2
P5215P2.5BOOBK2	15P	2.5	36.4
P5220P0.5BOOBK2	20P	0.5	29.1
P5220P0.75BOOBK2	20P	0.75	31.6
P5220P1.0BOOBK2	20P	1	31.2
P5220P1.5BOOBK2	20P	1.5	35.7
P5220P2.5BOOBK2	20P	2.5	41

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

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

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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
46	Black	Turquoise
47	Blue	Turquoise
48	Green	Turquoise
49	Brown	Turquoise
50	White	Turquoise

NOTICE

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