

PAS/BS 5308 CAM PART 1 TYPE 2 INSTRUMENTATION CABLE



Instrumentation cables, manufactured to PAS5308 standards, ensure safety and reliability for communication and instrumentation applications in process industries, transmitting analogue or digital signals from various sensors and transducers. These cables, featuring steel wire armour (SWA), provide exceptional protection in aggressive environments.

Designed for indoor and outdoor installations in industrial process plants and for data and voice transmission services, they are also used to interconnect electrical equipment and instruments, particularly in process plants. These cables are widely utilized throughout the petroleum industry.

Type 2 armoured cables are suitable for direct burial installations.

CONDUCTOR	Plain Copper
STRANDING	See Spec. Table
INSULATION	PE
COLLECTIVE SCREEN	Collective Aluminium Mylar
BEDDING	PE
ARMOUR	Steel Wire Armour
OUTERSHEATH	PVC
OUTERSHEATH COLOUR	Black, Blue
RATED VOLTAGE	500V
CORE IDENTIFICATION	According to BS5308 part 1
OPERATING TEMPERATURE	70Â°C
STANDARDS	BS/PAS 5308, EN 60228

SPECIFICATION DATA

Dimensions

No. of Pairs/Triples	Nominal cross sectional area of conductor (mm)	Approx overall diameter (mm)
1P	0.5	11.4
1P	0.75	11.8
1P	1	11.8
1P	1.5	12.9
1P	2.5	13.7
1T	0.5	11.7
1T	0.75	12.1
1T	1	12.3
1T	1.5	13.5
1T	2.5	14.3
2P(Q)	0.5	12.3
2P(Q)	0.75	13.0
2P(Q)	1	13.0
2P(Q)	1.5	14.3
2P(Q)	2.5	15.3
5P	0.5	17.9
5P	0.75	19.3
5P	1	19.7
5P	1.5	22.1
5P	2.5	24.1
10P	0.5	22.9
10P	0.75	25.5
10P	1	24.3
10P	1.5	28.4
10P	2.5	32.1
15P	0.5	26.4
15P	0.75	28.7
15P	1	28.1
15P	1.5	32.2
15P	2.5	36.4
20P	0.5	29.1
20P	0.75	31.6
20P	1	31.2
20P	1.5	35.7
20P	2.5	41

Conductors

Nominal cross sectional area (mm²)	Conductor class	Maximum DC resistance of conductor at 20° (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	Maximum mutual capacitance (pF/m)			Minimum insulation resistance at 20°C	Maximum L/R ratio (μH/ohms)
	Cables with collective screens only	1 pair, 2 pairs, 1 triple, collectively screened	Cables with individually screened pairs		
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
2.5	85	120	120	<	65

Core Identification

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	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

The information in this datasheet is for guidance only and subject to change without liability. Images provided are representations; actual cable dimensions may vary due to manufacturing tolerances.

www.battcables.com | 01322 441165
©2024 Batt Cables Limited

