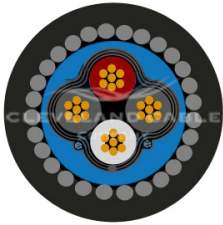


BS5308 PART2 TYPE2 ARMoured INSTRUMENTATION CABLE PVC CAT



APPLICATION

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.

CABLE STANDARDS

Flame propagation to BS4066 Pt 1 & 3
PAS5308
BS 50265
BS EN 50266
BS EN/IEC 60332-3-24

CONSTRUCTION PART 2

Conductor: Plain Annealed Copper Conductors

Insulation: Polyvinyl Chloride (PVC)

Laid up to form pairs

Tape: Collective aluminium / mylar tape screen complete with 0.5mm drain wire

Bedding: Polyvinyl Chloride (PVC)

Armour: Galvanised Steel Wire

Sheath: Polyvinyl Chloride (PVC)

Sheath Colour: ■ Blue or ■ Black

CHARACTERISTICS

Voltage Rating: 300/500 Volts

Temperature Limits: -20°C to +65°C

Minimum Bending Radius: As per cable manufacturer datasheet

CORE IDENTIFICATION

Refer to Part 2 colour chart on page 3

PAS 5308 PART2 TYPE 2 ARMOURED PVC CAT CABLE - DIMENSIONS

CCC CODE	CONDUCTOR SIZE (MM ²)	STRANDING (MM)	NO OF PAIRS	WEIGHT (KG/KM)	OVERALL DIAMETER	GLAND SIZE
PART 2						
7318	0.5	16/0.20	1	242	10.8	20/16
7319	0.5	16/0.20	2	288	11.7	20S
7320	0.5	16/0.20	5	535	17.3	20
7321	0.5	16/0.20	10	868	22.3	25
7322	0.5	16/0.20	20	1466	28.5	32
7323	0.5	16/0.20	30	1944	33.3	32
7324	0.5	16/0.20	50	3360	41.5	50S
7325	0.5	16/0.20	1 Triple	259	11	20/16
7355	0.75	24/0.20	1	270	11.1	20/16
7356	0.75	24/0.20	2	330	12.3	20S
7357	0.75	24/0.20	5	719	19.2	20
7358	0.75	24/0.20	10	1150	24.7	25
7359	0.75	24/0.20	20	1704	30.7	32
7360	0.75	24/0.20	30	2570	36.9	40
7361	0.75	24/0.20	50	4400	46.4	50S
7362	0.75	24/0.20	1 Triple	288	11.4	20S
7389	1.5	7/0.53	1	312	12.3	20S
7390	1.5	7/0.53	2	397	13.7	20S
7391	1.5	7/0.53	5	918	21.5	25
7392	1.5	7/0.53	10	1466	27.8	32
7393	1.5	7/0.53	20	2519	35.1	40
7394	1.5	7/0.53	30	3352	41.9	50S
7395	1.5	7/0.53	50	5310	53.4	63S
7396	1.5	7/0.53	1 Triple	357	12.6	20S
7408	2.5	7/0.67	1	395	13.1	20S
7409	2.5	7/0.67	2	490	15.9	20
7410	2.5	7/0.67	5	1430	26.5	20
7411	2.5	7/0.67	10	2235	35.1	40
7412	2.5	7/0.67	20	3935	46.7	50
7413	2.5	7/0.67	1 Triple	407	13.7	20S

PAS 5308 TYPE 2 PVC CAT CABLE – CONDUCTOR RESISTANCE

NOMINAL CROSS SECTIONAL AREA (MM ²)	CONDUCTOR CLASS	MAXIMUM RESISTANCE CONDUCTOR AT 200C Ω/KM
0.5	5	39
0.75	5	26
1	1	18.1
1.5	2	12.1
2.5	2	7.41

THE ABOVE IS IN ACCORDANCE WITH 18TH EDITION OF IET WIRING REGULATIONS

PAS 5308 TYPE 2 – CURRENT CAPACITY

NOMINAL CROSS SECTIONAL AREA (MM ²)	MUTUAL CAPACITANCE pF/m			MINIMUM INSULATION RESISTANCE AT 20°C MOHMS/KM	MAXIMUM L/R RATIO MH/OHMS
	CABLES WITH COLLECTIVE SCREEN 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	>5	65

THE ABOVE IS IN ACCORDANCE WITH 18TH EDITION OF IET WIRING REGULATIONS

PAS 5308 INSTRUMENT CABLE - PAIR COLOUR CHARTS

PART 2 PAIR COLOURS					
PAIR	A	B	Pair	A	B
1	WHITE	BLUE 2	6	RED/BLUE	BLUE
2	WHITE	ORANGE	27	RED/BLUE	ORANGE
3	WHITE	GREEN	28	RED/BLUE	GREEN
4	WHITE	BROWN	29	RED/BLUE	BROWN
5	WHITE	GREY	30	RED/BLUE	GREY
6	RED	BLUE	31	BLUE/BLACK	BLUE
7	RED	ORANGE	32	BLUE/BLACK	ORANGE
8	RED	GREEN	33	BLUE/BLACK	GREEN
9	RED	BROWN	34	BLUE/BLACK	BROWN
10	RED	GREY	35	BLUE/BLACK	GREY
11	BLACK	BLUE	36	YELLOW/BLUE	BLUE
12	BLACK	ORANGE	37	YELLOW/BLUE	ORANGE
13	BLACK	GREEN	38	YELLOW/BLUE	GREEN
14	BLACK	BROWN	39	YELLOW/BLUE	BROWN
15	BLACK	GREY	40	YELLOW/BLUE	GREY
16	YELLOW	BLUE	41	WHITE / ORANGE	BLUE
17	YELLOW	ORANGE	42	WHITE/ ORANGE	ORANGE
18	YELLOW	GREEN	43	WHITE / ORANGE	GREEN
19	YELLOW	BROWN	44	WHITE / ORANGE	BROWN
20	YELLOW	GREY	45	WHITE / ORANGE	GREY
21	WHITE/BLUE	BLUE	46	ORANGE/RED	BLUE
22	WHITE/BLUE	ORANGE	47	ORANGE/RED	ORANGE
23	WHITE/BLUE	GREEN	48	ORANGE/RED	GREEN
24	WHITE/BLUE	BROWN	49	ORANGE/RED	BROWN
25	WHITE/BLUE	GREY	50	ORANGE/RED	GREY

- FOR INDIVIDUAL SCREENED PAIRS, IDENTIFICATION WILL BE WHITE/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, WHITE, ORANGE.

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.