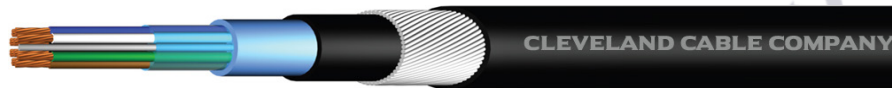
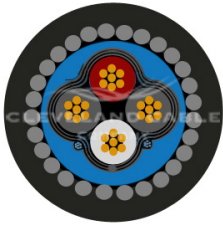


## BS5308 PART1 TYPE2 ARMoured INSTRUMENTATION CABLE PVC ICAT



### 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.

### CONSTRUCTION PART 1

**Conductor:** Plain Annealed Copper Conductors

**Insulation:** Polyethylene (PET)

Laid up to form pairs

**Screen:** Each pair individually aluminium/mylar foil tape screened, collective aluminium/mylar foil tape screen complete with 0.5mm drain wire

**Bedding:** Polyethylene (PET)

**Armour:** Galvanised Steel Wire

**Sheath:** Polyvinyl Chloride (PVC)

**Sheath Colour:** ■ Blue or ■ Black

### CABLE STANDARDS

PAS5308

BS 50265

BS EN 50266

BS EN/IEC 60332-3-24

Flame propagation to BS4066 Pt 1 & 3

### 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 1 colour chart on page 3

## BS5308 PART1 TYPE2 ARMoured CABLE PVC ICAT - DIMENSIONS

CCC CODE PART 1	CONDUCTOR SIZE (MM <sup>2</sup> )	STRANDING (MM)	NO OF PAIRS	WEIGHT (kg/km)	OVERALL DIAMETER	GLAND SIZE	NYLON CLEAT SIZE
7130	0.5	16/0.20	2	460	16.8	20	0.7
7131	0.5	16/0.20	5	730	19.9	20	0.8
7132	0.5	16/0.20	10	1202	26.9	32	1.1
7133	0.5	16/0.20	20	1870	34.3	40	1.4
7134	0.5	16/0.20	30	2620	40.5	50S	1.6
7135	0.5	16/0.20	50	4180	51.5	50	TC9
7167	0.75	24/0.20	2	518	16.6	20	0.7
7168	0.75	24/0.20	5	805	21	25	0.9
7169	0.75	24/0.20	10	1323	28.5	32	1.2
7170	0.75	24/0.20	20	2323	36.8	40	1.6
7171	0.75	24/0.20	30	3312	42.9	50S	1.8
7172	0.75	24/0.20	50	5520	54	63S	TC9
7201	1.5	7/0.53	2	707	19.4	20	0.8
7202	1.5	7/0.53	5	1185	24.4	25	1
7203	1.5	7/0.53	10	1668	32.5	32	1.4
7204	1.5	7/0.53	20	2956	41.6	50S	1.8

## PAS 5308 TYPE 2 PVC ICAT CABLE – CONDUCTOR RESISTANCE

NOMINAL CROSS SECTIONAL AREA (MM <sup>2</sup> )	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

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

## PAS 5308 TYPE 2 PVC CABLE – CURRENT CAPACITY

NOMINAL CROSS SECTIONAL AREA (MM <sup>2</sup> )	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

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

## PAS 5308 INSTRUMENT CABLE - PAIR COLOUR CHARTS

PART 1 PAIR COLOURS					
PAIR	A	B	PAIR	A	B
1	BLACK	BLUE	26	WHITE	YELLOW
2	BLACK	GREEN	27	RED	YELLOW
3	BLUE	GREEN	28	ORANGE	YELLOW
4	BLACK	BROWN	29	BLACK	GREY
5	BLUE	BROWN	30	BLUE	GREY
6	GREEN	BROWN	31	GREEN	GREY
7	BLACK	WHITE	32	BROWN	GREY
8	BLUE	WHITE	33	WHITE	GREY
9	GREEN	WHITE	34	RED	GREY
10	BROWN	WHITE	35	ORANGE	GREY
11	BLACK	RED	36	YELLOW	GREY
12	BLUE	RED	37	BLACK	VIOLET
13	GREEN	RED	38	BLUE	VIOLET
14	BROWN	RED	39	GREEN	VIOLET
15	WHITE	RED	40	BROWN	VIOLET
16	BLACK	ORANGE	41	WHITE	VIOLET
17	BLUE	ORANGE	42	RED	VIOLET
18	GREEN	ORANGE	43	ORANGE	VIOLET
19	BROWN	ORANGE	44	YELLOW	VIOLET
20	WHITE	ORANGE	45	GREY	VIOLET
21	RED	ORANGE	46	BLACK	TURQUOISE
22	BLACK	YELLOW	47	BLUE	TURQUOISE
23	BLUE	YELLOW	48	GREEN	TURQUOISE
24	GREEN	YELLOW	49	BROWN	TURQUOISE
25	BROWN	YELLOW	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
- 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.