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## **BS5308 PART 1 TYPE 1**

*BS 5308 Part 1 Type 1 Unarmoured PVC  
Instrumentation*



Extensively used for process control and signalling within the petrochemical industry, BS 5308 is also used in other industrial and commercial applications. Available with collective aluminium tape screening (CAT) or individual and collective aluminium tape screens (ICAT) to prevent electrical interference and crosstalk. These cables are suitable for use on cables trays and fixed installation where risk of mechanical damage is minimal.

# Construction

## Type: CAT – Collective Aluminium Tape Screen

Plain annealed copper wire conductors to IEC 60228, class 1, 2 or 5, PE insulation, laid up as cores or twisted into pairs or triples, overall aluminium/polyester foil screen and 0.5mm<sup>2</sup> tinned copper drain wire, RP-PVC sheath – black or blue.

## Type: ICAT – Individual & Collective Aluminium Tape Screen

Plain annealed copper wire conductors to IEC 60228, class 1, 2 or 5, PE insulation, cores twisted into pairs or triples, each pair aluminium/polyester foil screen and 0.5mm<sup>2</sup> tinned copper drain wire, units laid up, collective aluminium/polyester foil screen and 0.5mm<sup>2</sup> tinned copper drain wire, RP-PVC sheath – black or blue.

# Technical Information

<b>Voltage Rating:</b>	300V
<b>Temperature Rating:</b>	+65°C (minimum 0°C for installation)
<b>Conductor Stranding:</b>	IEC 60228 Class 1, 2 or 5 plain copper conductors
<b>L/R Ratio:</b>	
<b>0.5mm<sup>2</sup> &amp; 0.75mm<sup>2</sup>:</b>	25 µH/Ohm
<b>1.5mm<sup>2</sup>:</b>	40 µH/Ohm
<b>Flame Retardant:</b>	IEC 60332-1-2
<b>Manufactured Generally To:</b>	BS 5308 Part 1

# Pair Identification

**CAT:** Cables up to 50 pair are colour coded in accordance with BS 5308 part 1, appendix A. Two pair cables are twisted as a quad and coloured black, blue, green, brown.

**ICAT:** Each pair black, blue and numbered.

# Specification

Part No.	Pairs x Size mm <sup>2</sup>	Conductor Stranding mm	Screen Type	Colour	Weight kg/km	O/D mm	Cap. pF/m	Conductor Resistance Ohms/Km
<b>Collectively Screened Pairs</b>								
5311005010	1 x 2 x 0.5	16/0.20	CAT	BLACK	54.00	6.8	115	39.70
5311005011	1 x 2 x 0.5	16/0.20	CAT	BLUE	54.00	6.8	115	39.70
5311005020	2 x 2 x 0.5	16/0.20	CAT	BLACK	75.00	7.7	115	39.70

5311O05021	2 x 2 x 0.5	16/0.20	CAT	BLUE	75.00	7.7	115	39.70
5311O05050	5 x 2 x 0.5	16/0.20	CAT	BLACK	187.00	12.9	75	39.70
5311O05051	5 x 2 x 0.5	16/0.20	CAT	BLUE	187.00	12.9	75	39.70
5311O05100	10 x 2 x 0.5	16/0.20	CAT	BLACK	310.00	17.0	75	39.70
5311O05101	10 x 2 x 0.5	16/0.20	CAT	BLUE	310.00	17.0	75	39.70
5311O05200	20 x 2 x 0.5	16/0.20	CAT	BLACK	527.00	22.1	75	39.70
5311O05201	20 x 2 x 0.5	16/0.20	CAT	BLUE	527.00	22.1	75	39.70
5311O07010	1 x 2 x 0.75	24/0.20	CAT	BLACK	73.00	7.0	115	26.50
5311O07011	1 x 2 x 0.75	24/0.20	CAT	BLUE	73.00	7.0	115	26.50
5311O07020	2 x 2 x 0.75	24/0.20	CAT	BLACK	105.00	8.0	115	26.50
5311O07021	2 x 2 x 0.75	24/0.20	CAT	BLUE	105.00	8.0	115	26.50
5311O07050	5 x 2 x 0.75	24/0.20	CAT	BLACK	255.00	14.0	75	26.50
5311O07051	5 x 2 x 0.75	24/0.20	CAT	BLUE	255.00	14.0	75	26.50
5311O07100	10 x 2 x 0.75	24/0.20	CAT	BLACK	430.00	18.4	75	26.50
5311O07101	10 x 2 x 0.75	24/0.20	CAT	BLUE	430.00	18.4	75	26.50
5311O07200	20 x 2 x 0.75	24/0.20	CAT	BLACK	740.00	24.2	75	26.50
5311O07201	20 x 2 x 0.75	24/0.20	CAT	BLUE	740.00	24.2	75	26.50
5311O15010	1 x 2 x 1.5	7/0.53	CAT	BLACK	84.00	7.8	120	12.30
5311O15011	1 x 2 x 1.5	7/0.53	CAT	BLUE	84.00	7.8	120	12.30
5311O15020	2 x 2 x 1.5	7/0.53	CAT	BLACK	129.00	9.1	120	12.30
5311O15021	2 x 2 x 1.5	7/0.53	CAT	BLUE	129.00	9.1	120	12.30
5311O15050	5 x 2 x 1.5	7/0.53	CAT	BLACK	310.00	15.5	85	12.30
5311O15051	5 x 2 x 1.5	7/0.53	CAT	BLUE	310.00	15.5	85	12.30
5311O15100	10 x 2 x 1.5	7/0.53	CAT	BLACK	570.00	20.3	85	12.30
5311O15101	10 x 2 x 1.5	7/0.53	CAT	BLUE	570.00	20.3	85	12.30
5311O15200	20 x 2 x 1.5	7/0.53	CAT	BLACK	1,043.00	26.9	85	12.30
5311O15201	20 x 2 x 1.5	7/0.53	CAT	BLUE	1,043.00	26.9	85	12.30
<b>Individually &amp; Collectively Screened Pairs</b>								
5311I05020	2 x 2 x 0.5	16/0.20	ICAT	BLACK	130.00	11.7	115	39.70
5311I05021	2 x 2 x 0.5	16/0.20	ICAT	BLUE	130.00	11.7	115	39.70
5311I05050	5 x 2 x 0.5	16/0.20	ICAT	BLACK	217.00	14.3	115	39.70
5311I05051	5 x 2 x 0.5	16/0.20	ICAT	BLUE	217.00	14.3	115	39.70
5311I05100	10 x 2 x 0.5	16/0.20	ICAT	BLACK	403.00	19.6	115	39.70
5311I05101	10 x 2 x 0.5	16/0.20	ICAT	BLUE	403.00	19.6	115	39.70
5311I05200	20 x 2 x 0.5	16/0.20	ICAT	BLACK	667.00	25.4	115	39.70

<b>5311105201</b>	20 x 2 x 0.5	16/0.20	ICAT	BLUE	667.00	25.4	115	39.70
<b>5311107020</b>	2 x 2 x 0.75	24/0.20	ICAT	BLACK	190.00	12.5	115	26.50
<b>5311107021</b>	2 x 2 x 0.75	24/0.20	ICAT	BLUE	190.00	12.5	115	26.50
<b>5311107050</b>	5 x 2 x 0.75	24/0.20	ICAT	BLACK	300.00	16.0	115	26.50
<b>5311107051</b>	5 x 2 x 0.75	24/0.20	ICAT	BLUE	300.00	16.0	115	26.50
<b>5311107100</b>	10 x 2 x 0.75	24/0.20	ICAT	BLACK	530.00	22.3	115	26.50
<b>5311107101</b>	10 x 2 x 0.75	24/0.20	ICAT	BLUE	530.00	22.3	115	26.50
<b>5311107200</b>	20 x 2 x 0.75	24/0.20	ICAT	BLACK	930.00	29.2	115	26.50
<b>5311107201</b>	20 x 2 x 0.75	24/0.20	ICAT	BLUE	930.00	29.2	115	26.50
<b>5311115020</b>	2 x 2 x 1.5	7/0.53	ICAT	BLACK	230.00	14.4	120	12.30
<b>5311115021</b>	2 x 2 x 1.5	7/0.53	ICAT	BLUE	230.00	14.4	120	12.30
<b>5311115050</b>	5 x 2 x 1.5	7/0.53	ICAT	BLACK	410.00	18.5	120	12.30
<b>5311115051</b>	5 x 2 x 1.5	7/0.53	ICAT	BLUE	410.00	18.5	120	12.30
<b>5311115100</b>	10 x 2 x 1.5	7/0.53	ICAT	BLACK	730.00	26.1	120	12.30
<b>5311115101</b>	10 x 2 x 1.5	7/0.53	ICAT	BLUE	730.00	26.1	120	12.30
<b>5311115200</b>	20 x 2 x 1.5	7/0.53	ICAT	BLACK	1,283.00	34.2	120	12.30
<b>5311115201</b>	20 x 2 x 1.5	7/0.53	ICAT	BLUE	1,283.00	34.2	120	12.30