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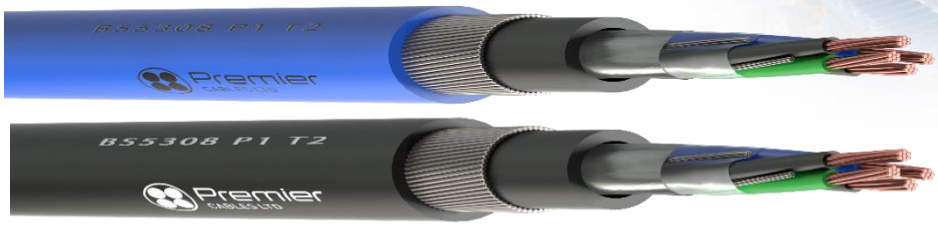
BS5308 PAS 5308 Part 1 Type 2
Instrumentation Cable
Collective Screened



BS/PAS 5308, BS EN 60228, BS 6234, BS E 63,
BS EN/IEC 60332-1, BS EN/IEC 60332-3-24

Application

Designed for connection to electrical instrument circuits to provide communication in process applications. BS 5308 cables are designed to form part of an intrinsically safe system.
Part 1 cables have an insulation of PE /XLPE.
Type 2 cables suitable for direct burial.
The PVC sheathing material has an OI above 30% and HCL below 15%

Construction

Conductor	Class 1 solid, Class 2 stranded or Class 5 copper conductor according to BS EN 60228 (previously to 6360)
Pairing	Two insulated conductors uniformly twisted together
Insulation	PE (Polyethylene) Type 03 according to BS 6234
Shielding	AL/PET (Aluminium/Polyester Tape) This range is also available with Individual and Collectively Screened Pairs
Drain Wire	Tinned copper
Bedding	PE (Polyethylene) Type 03 according to BS 6234
Armour	Galvanized SWA (Steel Wire Armour)
Sheath	PVC (Polyvinyl Chloride) Type TM1according to BS EN 50363
Voltage Rating (Uo/U)	300/500V
Temperature Rating	Fixed: -30°C to +75°C
Minimum Bending Radius Fixed:	18 x overall diameter
Sheath Colour	Blue or Black
	This range is also available in LSZH LTS3

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Premier Part No	number of pairs	Nominal Cross Section mm²	Nominal Diameter Overall mm
42001PX000.5C	1	0.5	11.4
42001PX000.75C	1	0.75	11.8
42001PX001C	1	1	11.9
42001PX001.5C	1	1.5	12.8
42001PX002.5C	1	2.5	13.7
42002PX000.5C	2	0.5	12.3
42002PX000.75C	2	0.75	13.0
42002PX001C	2	1	13.5
42002PX001.5C	2	1.5	14.3
42002PX002.5C	2	2.5	15.3
42001TX000.5C	1 triple	0.5	11.7
42001TX000.75C	1 triple	0.75	12.1
42001TX001.5C	1 triple	1.5	13.5
42001TX002.5C	1 triple	2.5	14.3
42005PX000.5C	5	0.5	17.9
42005PX000.75C	5	0.75	19.3
42005PX001C	5	1	19.7
42005PX001.5C	5	1.5	22.1
42005PX002.5C	5	2.5	24.1
42010PX000.5C	10	0.5	22.9
42010PX000.75C	10	0.75	25.5
42010PX001C	10	1	24.3
42010PX001.5C	10	1.5	28.4
42010PX002.5C	10	2.5	32.1
42010PX000.5C	20	0.5	29.1
42010PX000.75C	20	0.75	31.6
42010PX001C	20	1	31.2
42010PX001.5C	20	1.5	35.7
42010PX002.5C	20	2.5	41

Nominal Cross Secional Area mm²	Maximun DC Resistance of Conductor at 20°C ohms/km
0.5	36
0.75	24.5
1	18.1
1.5	12.1
2.5	7.41

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0.5	36
0.75	24.5
1	18.1
1.5	12.1
2.5	7.41

Nominal Cross Section mm²	Mutual Capacitance pF/m Cables with Collective screen	1,2 pair , 1 triple collective screen	Cable with Ind/ collective screen	Minimum insulation resistance Gohms/km	Max L/R Ratio µH/ohms
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

Pair colour code

Pair No:	A Wire	B wire		A Wire	B Wire
1	Black	Blue	16	Black	Orange
2	Black	Green	17	Blue	Orange
3	Blue	Green	18	Green	Orange
4	Black	Brown	19	Brown	Orange
5	Blue	Brown	20	White	Orange
6	Green	Brown	21	Red	Orange
7	Black	White	22	Black	Yellow
8	Blue	White	23	Blue	Yellow
9	Green	White	24	Green	Yellow
10	Brown	White	25	Brown	Yellow
11	Black	Red	26	White	Yellow
12	Blue	Red	27	Red	Yellow
13	Green	Red	28	Orange	Yellow
14	Brown	Red	29	Black	Grey
15	White	Red	30	Blue	Grey

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