

BS 5308 Part 1 Type 1 LSZH Screened Multipaired Instrumentation Cable **pro-POWER**

**RoHS
Compliant**



Application:

BS 5308 cables are designed to carry communication and control signals in a variety of installation types including those found in the petrochemical industry. The signals can be of analogue, data or voice type and from a variety of transducers such as pressure, proximity or microphone. BS 5308 cables are designed to form part of an intrinsically safe system. Part 1 Type 1 cables are generally designed for indoor use and in environments where mechanical protection is not required. Collectively and individually screened pairs are available within the range where further signal security is required.

Cable Standards:

Made in accordance with the following:

BS/PAS 5308, BS EN 60228, BS 6234, BS EN 50363,
BS EN/IEC 60332-1, BS EN/IEC 60332-3-24

Construction:

Conductor	: Class 1 solid, Class 2 stranded or Class 5 flexible copper conductor according to BS EN 60228 (previously to BS 6360)
Pairing	: Two insulated conductors uniformly twisted together
Insulation	: XLPE (Cross-Linked Polyethylene) Type 03 according to BS 6234
Shielding	: AL/PET (Aluminium/Polyester Tape)
Drain Wire	: Tinned copper
Sheath	: LSZH (Low Smoke Zero Halogen) Type LTS3 according to BS 7655

Characteristics:

Voltage Rating (Uo/U)	: 300/500V
Temperature Rating	: -30°C to +90°C (Fixed)
Min. Bending Radius	: 12 × overall diameter (Fixed)
Sheath Colour	: Black

Electrical Characteristics:

Individually and Collectively Screened Cables

Nominal Cross Sectional Area mm ²	Mutual Capacitance pF/m		Min Insulation Resistance at 20°C mΩ/km	Max. L/R Ratio μH/Ω
	Cables with Collective Screen Only	Cables with Individually Screened Pairs		
0.5	75	115	>5	25
0.75	75	115	>5	25
1.5	85	120	>5	40

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Core Colours:

Pair No.	A Wire	B Wire
1	Black	Blue
2	Black	Green

Individually screened pairs will be number coded all with Pair 1 colouring

Conductors:

Nominal Cross Sectional Area mm ²	Conductor Class	Max. DC Resistance of Conductor at 20°C Ω/km
0.5	5	39
0.75	5	26
1.5	2	12.1

Dimensions:

Part Number	No. of Pairs	Nominal Cross Sectional Area mm ²	Nominal Overall Diameter mm
PP000929	1P	0.5	7
PP000930	1P	0.75	7.4
PP000931	1P	1.5	8.3
PP000933	2P(Q)	0.5	7.9
PP000932	2P(Q)	0.75	8.4
PP000934	2P(Q)	0.75	8.4

P = Pairs

Q = Quad

Part Number Table

Description	Reel Length (m)	Part Number
BS 5308 Part 1 Type 1 LSZH Screened Multipaired Instrumentation Cable	50	PP000929
		PP000930
		PP000931
		PP000932
		PP000933
		PP000934

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