

BS 5308 Part 1 Type 1 LSZH Screened Paired and Quad 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.

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
Quad	: Four insulated conductors uniformly twisted together
Insulation	: XLPE (Cross-Linked Polyethylene) Type 03 according to BS 6234
Shielding (Collective Overall Screen)	: 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:

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 Overall Screen		
0.5	75	>5	25
0.75	75	>5	25
1.5	85	>5	40

www.element14.com
www.farnell.com
www.newark.com
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Core Colours:

Pair No.	A Wire	B Wire
1	Black	Blue
2	Black	Green
Quad	Black, Blue, Green, Brown	

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 / Quad	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	Q	0.5	7.9
PP000932	2P	0.75	8.4
PP000934	Q	0.75	8.4

P = Pairs

Q = Quad

Part Number Table

Description	No. of Pairs / Quad	Reel Length (m)	Part Number
BS 5308 Part 1 Type 1 LSZH Screened Paired / Quad Instrumentation Cable	1 Pr.	50	PP000929
	1 Pr.		PP000930
	1 Pr.		PP000931
	2 Pr.		PP000932
	Quad		PP000933
	Quad		PP000934

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