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BS5308 PAS 5308 Part 1 Type 1
LSZH Instrumentation Cable
Individual & 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 1 cables for indoor applications without mechanical protection.
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	Individual and Collectively AL/PET (Aluminium/Polyester Tape) screened pairs
Drain Wire	Tinned copper
Bedding	Polyester tape
Sheath	LSZH (Low smoke zero halogen) to BS7655
Voltage Rating (Uo/U)	300/500V
Temperature Rating	Fixed: -30°C to +75°C
Minimum Bending Radius Fixed:	12 x overall diameter
Sheath Colour	Blue or Black

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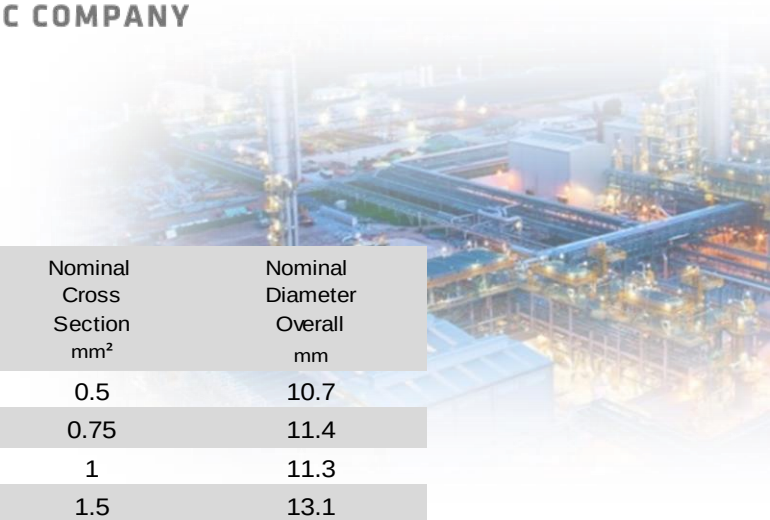

Premier Part No	number of pairs	Nominal Cross Section mm²	Nominal Diameter Overall mm
4002PX000.5ICATLS	2	0.5	10.7
4002PX000.75ICATLS	2	0.75	11.4
4002PX001ICATLS	2	1	11.3
4002PX001.5ICATLS	2	1.5	13.1
4002PX002.5ICATLS	2	2.5	14.5
4003PX000.5ICATLS	3	0.5	12.1
4003PX000.75ICATLS	3	0.75	12.8
4003PX001.5ICATLS	3	1.5	14.5
4003PX002.5ICATLS	3	2.5	15.9
4005PX000.5ICATLS	5	0.5	13.6
4005PX000.75ICATLS	5	0.75	14.5
4005PX001ICATLS	5	1	14.6
4005PX001.5ICATLS	5	1.5	16.8
4005PX002.5ICATLS	5	2.5	18.9
4010PX000.5ICATLS	10	0.5	19
4010PX000.75ICATLS	10	0.75	20.4
4010PX001ICATLS	10	1	20.5
4010PX001.5ICATLS	10	1.5	23.9
4010PX002.5ICATLS	10	2.5	26.9
4020PX000.5ICATLS	20	0.5	24.6
4020PX000.75ICATLS	20	0.75	26.8
4020PX001ICATLS	20	1	26.7
4020PX001.5ICATLS	20	1.5	31.1
4020PX002.5ICATLS	20	2.5	35.3

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Nominal Cross Secional Area mm²	Maximun DC Resistance of Conductor at 20°C ohms/km
0.5	39
0.75	26
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

Colour Coding Individual & Collective Screen

Screened pairs can be identified by either:
colour coded pairs click here
or
black / blue pairs with number coded polyester tape

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