

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 |

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

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 |

Important Notice : This data sheet and its contents (the "Information") belong to the members of the Premier Farnell group of companies (the "Group") or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but the Group assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where the Group was aware of the possibility of such loss or damage arising) is excluded. This will not operate to limit or restrict the Group's liability for death or personal injury resulting from its negligence. pro-POWER is the registered trademark of the Group. © Premier Farnell plc 2012.