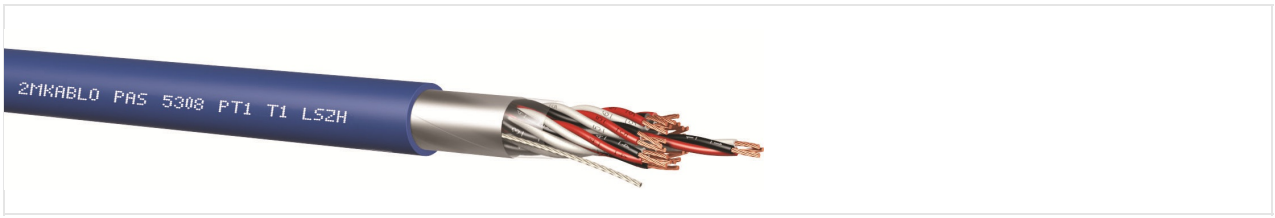
# PT1 T1 LSZH




## Areas of Use

Instrumentation cables have a wide range of usage in process control and data processes, in analog and digital signal transmission. Factories, refineries, petrochemical plants, power plants, natural gas filling plants, etc. make up the general areas that these cables are used.

## Cable Construction

| | |
|---|---|
| **Conductor** | Solid or Stranded Annealed Copper (IEC/EN 60228, Class 1, 2,5) -Table 1 |
| **Insulation** | PE (EN 50290-2-23) |
| **Core Colors** | According to PAS 5308-1 Annex C-Table 2 |
| **Lay-up** | Cores / pairs / triples are stranded in layers, Two-pair cables laid in quad formation |
| **Separator** | PET Foil |
| **Overall Screen** | Al-PET Foil (with 7x0.3 mm Tinned Copper Drain Wire) |
| **Outer Sheath** | Halogen Free Flame Retardant Compound (HFFR /LSZH/LSOH/FRNC) (EN 50290-2-27), RAL 9005 - Black, RAL 5015 - Blue (other colors upon request) |
| **Reference Standards** | PAS 5308 Part 1 - Type 1 |

## Technical Properties

| | |
|---|---|
| **Operating Voltage** | 300 V / 500 V |
| **Test Voltage** | Core - Core: 2000 V; Core - Screen: 1000 V |
| **Capacitance Unbalance (800 Hz)** | ≤500 pF/500m |
| **Conductor Resistance** | 0.50 mm² - ≤36.8 Ω/km; 0.75 mm² - ≤24.5 Ω/km; 1.00 mm² - ≤18.4 Ω/km; 1.50 mm² - ≤12.3 Ω/km; 2.50 mm² - ≤7.6 Ω/km |
| **Insulation Resistance** | >5000 M.Ωxkm |
| **Capacitance (@800Hz)** | Table-3 |
| **L/R Ratio** | 0.50 mm²..1.00 mm² - ≤25 µH/Ω; 1.30 mm²..1.50 mm² - ≤40 µH/Ω; 2.50 mm² - ≤60 µH/Ω |
| **Temperature Range** | Fixed: -40 °C .....+70 °C, Flexible: -5 °C .....+50 °C |
| **Flame Retardancy** | IEC/EN 60332-1, IEC/EN 60332-3-24 (CAT C) |
| **Smoke Density** | IEC/EN 61034-1 |
| **Amount of Halogen Acid Gas** | IEC/EN 60754-1 |
| **Corrosive Gases Measurement** | IEC/EN 60754-2 |
| **Oil Resistance** | IEC/EN 60811-404, ASTM No 2 oil 70 °C 4 hours |
| **Min. Bending Radius (Fixed)** | 8 x Cable Diameter |

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