# PT1 T1 ICAT 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 |
| **Separator** | PET Foil |
| **Individual Screen** | Al-PET Foil (with 7x0.30 mm Tinned Copper Drain Wire) |
| **Lay-up** | Shielded pairs are stranded in layers |
| **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) |

## Technical Properties

| | |
|---|---|
| **Operating Voltage** | 300 V / 500 V |
| **Test Voltage** | Core - Core: 2000 V; Core - Screen: 1000 V |
| **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 Unbalance (800 Hz)** | ≤500 pF/500m |
| **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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