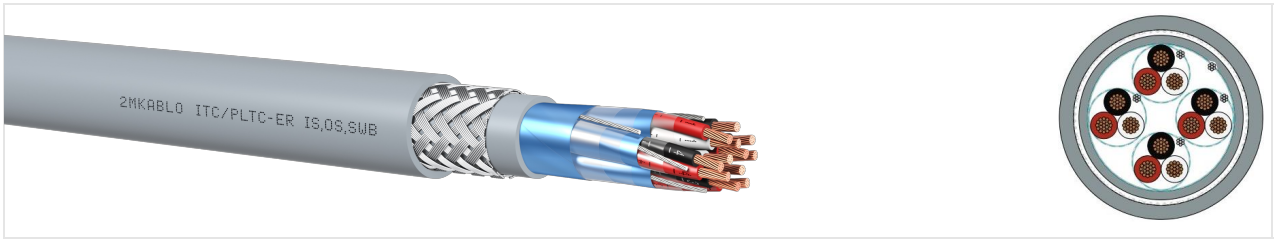
# TYPE ITC/PLTC-ER - Individual & Overall Shielded Braid Armored




## 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. These cables meets the crush and impact requirements and deformation resistance according to UL 2556.

## Cable Construction

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|---|---|
| **Conductor** | Stranded Annealed Copper (ASTM B3) |
| **Insulation** | PVC (UL 1581 Class 105°C, EN 50363-3 TI3) |
| **Core Colors** | Pair: Black / White, Numbered Triples: Black / White / Red, Numbered Quad: Black / White / Red / Blue, Numbered |
| **Individual Seperaor** | PET Foil |
| **Individual Screen** | Al-PET Foil (with 0.60 mm Tinned Copper Drain Wire) |
| **Lay-up** | Shielded pairs / triples / quads are stranded in layers |
| **Separator** | PET Foil |
| **Inner Sheath** | PVC (UL 1581 Class 105°C) |
| **Armour** | Galvanised Steel Wire Braid |
| **Outer Sheath** | Heat Resistant and Sunlight Resistant PVC (UL 1581 Class 105°C), Black, Blue (other colors upon request) |
| **Reference Standards** | UL 13, UL 2250, NEC Article 725, NEC Article 727 |
| **Overall Screen** | Al-PET Foil (with 7x0.3 mm Stranded Tinned Copper) |

## Technical Properties

| | |
|---|---|
| **Operating Voltage** | 300 V |
| **Test Voltage** | 1.5 kV |
| **Dielectric Voltage Withstand** | UL 2556 |
| **Conductor Resistance** | UL 1581 - Section 220 |
| **Insulation Resistance** | >100.1 MΩ/kft (at 15.6°C) |
| **Max. Operating Temperature** | Fixed: -40°C ... +105°C, Flexible: -5°C ... +60°C |
| **Flame Retardancy** | FT4/IEEE 1202 Flame Test (UL 1685), IEC/EN 60332-1, IEC/EN 60332-3-24 (CAT C) |
| **Oil Resistance** | ASTM No 2 oil 70°C 4 hours (IEC / EN 60811- 404) |
| **Sunlight Resistance** | Acc. to UL 1581, Sec. 1200 |
| **Min. Bending Radius (Fixed)** | 8 x Cable Diameter |

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