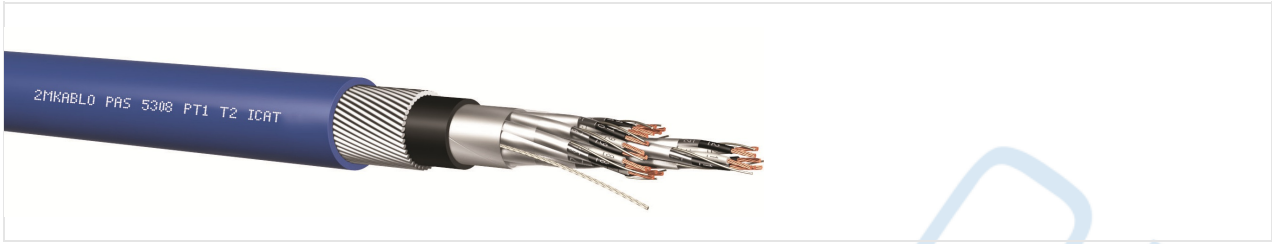


## PT1 T2 ICAT



### 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

<b>Conductor</b>	Solid or Stranded Annealed Copper (IEC/EN 60228, Class 1, 2,5) -Table 1
<b>Insulation</b>	PE (EN 50290-2-23)
<b>Core Colors</b>	According to PAS 5308-1 Annex C-Table 2
<b>Separator</b>	PET Foil
<b>Individual Screen</b>	Al-PET Foil (with 7x0.30 mm Tinned Copper Drain Wire)
<b>Lay-up</b>	Shielded pairs / triples are stranded in layers
<b>Separator</b>	PET Foil
<b>Overall Screen</b>	Al-PET Foil (with 7x0.3 mm Tinned Copper Drain Wire)
<b>Inner Sheath</b>	PE
<b>Armour</b>	Round Galvanized Steel Wire (Min. Diameter 0.90 mm ±0.02 mm)
<b>Outer Sheath</b>	UV Resistant, Flame Retardant PVC (EN 50290-2-22 ), RAL 9005 - Black, RAL 5015 - Blue (other colors upon request)
<b>Reference Standards</b>	PAS 5308 Part 1 - Type 2

### Technical Properties

<b>Operating Voltage</b>	300 V / 500 V
<b>Test Voltage</b>	Core - Core: 2000 V; Core - Screen: 1000 V
<b>Conductor Resistance</b>	0.50 mm <sup>2</sup> - ≤36.8 Ω/km; 0.75 mm <sup>2</sup> - ≤24.5 Ω/km; 1.00 mm <sup>2</sup> - ≤18.4 Ω/km; 1.50 mm <sup>2</sup> - ≤12.3 Ω/km; 2.50 mm <sup>2</sup> - ≤7.6 Ω/km
<b>Insulation Resistance</b>	>5000 M.Ωxkm
<b>Capacitance Unbalance (800 Hz)</b>	≤500 pF/500m
<b>Capacitance (@800Hz)</b>	Table-3
<b>L/R Ratio</b>	0.50 mm <sup>2</sup> ..1.00 mm <sup>2</sup> - ≤25 μH/Ω; 1.30 mm <sup>2</sup> ..1.50 mm <sup>2</sup> - ≤40 μH/Ω; 2.50 mm <sup>2</sup> - ≤60 μH/Ω
<b>Temperature Range</b>	Fixed: -40 °C .....+70 °C, Flexible: -5 °C .....+50 °C
<b>Flame Retardancy</b>	IEC/EN 60332-1, IEC/EN 60332-3-24 (CAT C)
<b>Oil Resistance</b>	IEC/EN 60811-404, ASTM No 2 oil 70 °C 4 hours
<b>Min. Bending Radius (Fixed)</b>	12 x Cable Diameter

21.01.2025 11:38

**Legal Warning:** The information in this catalog is for marketing purposes. 2M Kablo can change this catalog during product development and any requirements. 2M Kablo can always change designs, technical specifications, images and other informations in this catalog without any notice. This catalog is only a guide and is valid at the time of download, not valid for an offer or contract.

If you need more information about the products in this catalog, please contact us via [info@2mkablo.com](mailto:info@2mkablo.com) or call +90 (212) 222 8250.