PT1 T1 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

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 / triples are stranded in layers
Separator	PET Foil
Overall Screen	Al-PET Foil (with 7x0.3 mm Tinned Copper Drain Wire)
Outer Sheath	UV Resistant, Flame Retardant PVC (EN 50290-2-22), 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
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)
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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