



instrumentation cable series

TraceTek TT1000 / TT1100-OHP

Conductive-Polymer Water Leak

4-wire conductive-polymer fluoropolymer water leak detection & location cable



Pinpoint ± 1 m Location

Fast Dry-Out & Reset

Underfloor & Overhead Pipe

Application

TraceTek TT1000 and TT1100-OHP Conductive-Polymer Water Leak Detection Sensing Cable featuring two carbon-loaded conductive-polymer sensing electrodes, two fluoropolymer-insulated continuity/reference wires helically wound around a.

Typical uses: Hyperscale Data Centres & AI Liquid-Cooling CDUs, Semiconductor Cleanroom Sub-Fab Utility Piping, Commercial Building HVAC & Overhead Chilled Water, Telecom Switching Rooms & UPS Battery Floors, Museum, Archive & Hospital Critical Infrastructure

Construction



Cross-section, not to scale

- 1 2 × insulated copper reference & loop-continuity wires
- 2 Fluted non-conductive fluoropolymer central carrier core
- 3 2 × conductive-polymer jacketed sensing electrodes
- 4 Capillary wicking polyester overbraid (TT1100-OHP only)

Technical data

Typical values

Sensing wire linear R	≈ 20.0 Ω/m (±2 % per metre for accurate distance readout)	Continuity wire DC R	≈ 0.14 Ω/m (26 AWG stranded tinned copper)
Dry insulation resistance	≥ 100 MΩ per 30 m sensing circuit	Max. sensing circuit length	Up to 150 m per TTSIM / TTDM-128 sensor interface module
Continuous operating temp.	-20 °C to +75 °C (TT1000) · 0 °C to +75 °C (TT1100-OHP)	Storage temperature	-40 °C to +85 °C
Plenum fire rating	UL 910 / NFPA 262 plenum flame & low smoke qualified (TT1000)	Outer diameter	6.0 mm / 0.24 in (TT1000) · 7.5 mm / 0.30 in (TT1100-OHP)
Min. bend radius	25 mm (4 × OD)	Crush resistance	> 180 kg on 12 mm flat plate without shorting
Detected liquids	Potable water, chilled water, condensate, glycol/water mixes	Dry-out & reset	TT1000 resets within seconds of wiping dry; zero water absorption
Dust & metal floor immunity	Recessed flutes prevent contact with flat metal subfloors	Standards	NFPA 75 & EN 50600-2-2 / EN 50174-2

Sizes

4 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Order designation	Installation environment	Outer Ø mm	Weight ≈ kg/km	Sense R Ω/m	Wetted alarm mm
4-Wire Conductive-Polymer Water Leak Sensing Cables 4 sizes					
☐ TraceTek TT1000 (Bulk)	Raised Floor, Drip Pan & Plenum Subfloor	6.0	34.0	20.0	50
☐ TraceTek TT1000-PC (Modular)	Pre-Terminated 3 m / 7.5 m / 15 m / 30 m Plug-and-Play	6.0	34.0	20.0	50
☐ TraceTek TT1100-OHP (Bulk)	Overhead Pipe Under-Insulation / Belly Strap	7.5	42.0	20.0	20
☐ TraceTek TT1100-OHP-PC	Pre-Terminated Overhead Pipe Modular Assemblies	7.5	42.0	20.0	20

– Directly compatible with 4-wire locating controllers (TTDM-128, TTSIM-1/2, and standard 20 Ω/m Modbus/BACnet leak transmitters).

Standards and approvals

- ✓ NFPA 262 / UL 910 Plenum
- ✓ NFPA 75 Data-Centre Compliant
- ✓ CE, RoHS 2 & REACH

Certifications



Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone

+86 185 9591 3361

Email

info@tebaoflex.com

Web

tebaoflex.com/cables/tracetek-tt1000-tt1100-ohp-conductive-polymer-water-leak-detection-sensing-cable



Typical values for this cable type, based on UL 719 / NFPA 75 / EN 50174-2. Values for your order are confirmed in the quotation. Subject to change without notice.
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