instrumentation cable series

TT1000 / TT1100-OHP

Conductive-Polymer Water Leak Sensing Cable

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

Pinpoint ±1 m Location | **Fast Dry-Out & Reset** | **Underfloor & Overhead Pipe**



Application

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

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					
☐ **TT1000 (Bulk)**	**Raised Floor, Drip Pan & Plenum Subfloor**	**6.0**	**34.0**	**20.0**	**50**
☐ **TT1000-PC (Modular)**	**Pre-Terminated 3 m / 7.5 m / 15 m / 30 m Plug-and-Play**	**6.0**	**34.0**	**20.0**	**50**
☐ **TT1100-OHP (Bulk)**	**Overhead Pipe Under-Insulation / Belly Strap**	**7.5**	**42.0**	**20.0**	**20**
☐ **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. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.