



instrumentation cable series

TraceTek TT5001 / TT5001-HUV

Fast-Response Organic Solvent Leak

Fast-response water-immune organic solvent leak sensing cable (TT5001 & UV TT5001-HUV)



Sub-3-Min Solvent Alarm

MEK, Toluene & Acetone

TT5001-HUV Outdoor UV

Application

TraceTek TT5001 and TT5001-HUV Fast-Response Organic Solvent Leak Sensing Cable engineered with a fast-diffusing swelling-elastomer actuator that detects low-molecular-weight organic solvents (MEK, acetone, toluene, xylene, benzene,).

Typical uses: Pharmaceutical API & Solvent Recovery Piping, Semiconductor Photoresist & Solvent Sub-Fabs, Outdoor Petrochemical Aromatics (BTX) Pipe Racks, Lithium-Ion Battery Slurry (NMP / DMC / EMC) Lines, Specialty Paint, Coating & Adhesive Manufacturing

Construction



Cross-section, not to scale

- 1 2 × fluoropolymer-insulated copper continuity wires
- 2 Concentric 20 Ω/m conductive-polymer sensing pair
- 3 Thin-wall fast-response solvent-swelling elastomer
- 4 Open-weave protective braid (UV Black on TT5001-HUV)

Technical data

Typical values

Sensing wire linear R	≈ 20.0 Ω/m (±2 % linearity — compatible with all TraceTek panels)	Dry / water-immersed IR	≥ 100 MΩ in dry air or clean water
Location accuracy	± 0.5 % of total sensing circuit length	Hazardous area rating	Ex ia IIC T4 Ga Simple Apparatus (with zener barrier)
Continuous operating temp.	-20 °C to +60 °C	Response time (Toluene/MEK)	30 to 90 seconds @ 20 °C
Response time (Gasoline/Jet)	1 to 3 minutes @ 20 °C	Nominal outer diameter	6.5 mm (0.26 in) cable body
Min. bend radius	35 mm (5.5 × OD)	Max. pulling tension	160 N (35 lbf)
Detected organic solvents	MEK, Acetone, Toluene, Xylene, Benzene, THF, Hexane, Ethyl Acetate	Water & humidity immunity	Zero false alarm in outdoor rain, snowmelt or washdown water
Reset after evaporation	Automatically resets to > 100 MΩ once clean volatile solvent evaporates	Standards	IEC 60079-11 / UL 913 Intrinsically Safe Simple Apparatus

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	Environment & connectors	Body Ø mm	Weight ≈ kg/km	MEK/Toluene sec	Gasoline sec
Fast-Response Organic Solvent Leak Sensing Cables 4 sizes					
☐ TraceTek TT5001 (Bulk)	Indoor Solvent Containment Pipes & Trenches	6.5	52	45	90
☐ TraceTek TT5001-PC	Indoor Modular Lengths with Plastic Connectors	6.5	52	45	90
☐ TraceTek TT5001-HUV (Bulk)	Outdoor UV-Stabilized Pipe Racks & Tank Dikes	6.5	54	45	90
☐ TraceTek TT5001-HUV-PC	Outdoor UV Modular Lengths (1.5 m to 15 m)	6.5	54	45	90

- TT5001 resets automatically once clean volatile solvents (such as acetone, MEK or toluene) evaporate from the cable.

Standards and approvals

- ✓ Ex ia IIC Simple Apparatus
- ✓ SEMI S2 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-tt5001-tt5001-huv-fast-response-organic-solvent-leak-sensing-cable



Typical values for this cable type, based on UL 913 / IEC 60079-11 / SEMI S2. Values for your order are confirmed in the quotation. Subject to change without notice.
Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.