



TT5001

TraceTek® solvent-sensing cable

TraceTek® TT5001 sensing cable detects liquid organic solvents anywhere along its length, but does not react to the presence of water. Installed with a TraceTek alarm and locating module, the cable senses the liquid, triggers an alarm, and pinpoints the location of the leak.

Distributed sensing

TraceTek TT5001 sensing cable provides distributed leak detection and location for a wide range of applications. Cable lengths can be arranged to provide as much coverage as necessary.

Design flexibility

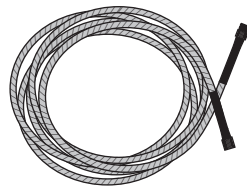
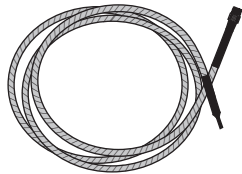
The TT5001 sensing cable is available in a variety of lengths with factory-installed connectors. These modular sensing cables may be

connected in series to provide distributed monitoring for trenches, subfloors, and double-containment piping, or used individually for double-containment tanks, sumps, and small areas. TT5001 zone sensing cable—which comes with a factory-installed, heat-shrink end termination—is also available for small area coverage.

Advanced technology

The Raychem® radiation-crosslinking and conductive-polymer technologies are used to make TraceTek TT5001 sensing cable mechanically strong and chemically resistant. The core of the cable is constructed of two sensing wires, an alarm signal wire, and a continuity wire. The core is encased in a conductive-polymer jacket and surrounded with a fluoropolymer braid. This rugged construction allows the cable to perform well, even in demanding environments.

Ordering Information

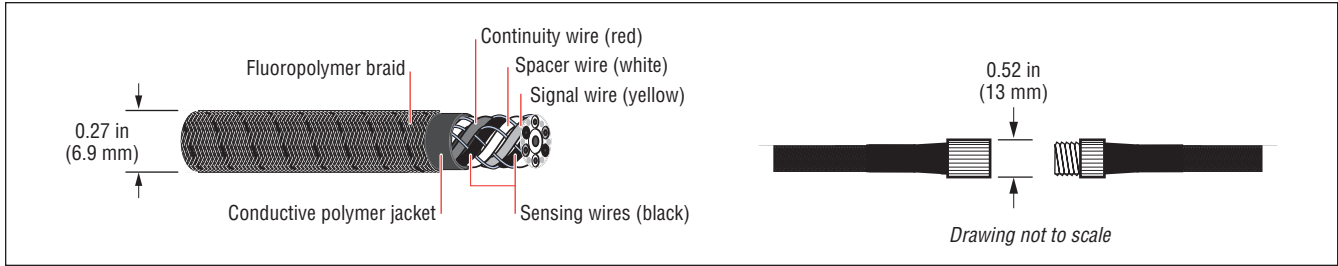


TT5001 zone sensing cable with factory-installed connector and end termination

Catalog number	Description
TT5001-1.5M/5FT-MC-HSE	5 ft (1.5 m) sensing cable with heat-shrink end termination

TT5001 modular sensing cable with factory-installed connectors

Catalog number	Description
TT5001-0.3M/1FT-MC	1 ft (0.3 m) sensing cable
TT5001-1.5M/5FT-MC	5 ft (1.5 m) sensing cable
TT5001-3M/10FT-MC	10 ft (3 m) sensing cable
TT5001-7.5M/25FT-MC	25 ft (7.5 m) sensing cable
TT5001-15M/50FT-MC	50 ft (15 m) sensing cable



Product Characteristics

Cable diameter	0.27 in (6.9 mm) nominal
Cable connector diameter	0.52 in (13 mm) nominal
Cable weight (50 ft/15 m length)	2.4 lb (1.1 kg)
Operating temperature range	-4°F to 140°F (-20°C to 60°C)
Pull force limit	Not to exceed 50 lb (23 kg)
Bend radius	2 in (50 mm) minimum
Pressure	Loads greater than 20 lb (9 kg) per linear inch at 68°F (20°C) may immediately trigger an alarm
Nonresettable	Must be replaced after exposure to solvents

Chemical Resistance

Cable functions normally after exposure in accordance with ASTM D 543 at 73°F (23°C) for seven days:	Sulfuric acid (10%) Nitric acid (10%) Hydrochloric acid (10%) Sodium hydroxide (10%)
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Water Resistance

Sensing cable	Less than 10 µA leakage when immersed in salt water for 90 days
Connector system	Less than 10 µA leakage when immersed in water at 10 psig for 24 hours

Response Time

Representative materials detected	Typical response time at 68°F (20°C)
Toluene	10 min
Dichloromethane (methylene chloride)	5 min
1, 1, 1-trichloroethylene (TCE)	8 min
Trichloroethane (TCA)	20 min
Methyl ethyl ketone (MEK)†	10 min†
Acetone†	10 min†
n-methyl pyrrolidone (NMP)†	60 min†
Isopropyl alcohol (anhydrous)	90 min

Notes

- Response times are based on 2 in (50 mm) of cable immersed in liquid.
 - Response times are affected by operating temperature. Consult factory for specific response times at other temperatures and in other liquids.
- † Prolonged immersion in ketones will inhibit sensing-cable performance.

Approvals



Sensing cable may be used in Class I, Division 2, Groups A, B, C, D Hazardous Locations only when used with agency approved TraceTek alarm modules. If wiring from module meets requirements for intrinsic safety, sensing cable may be used in Class I, Division 1, Groups A, B, C, and D Hazardous Locations (Zone 0 or Zone 1 in Europe).



The TraceTek products group is a part of Tyco Thermal Controls. Tyco Thermal Controls is ISO 9001 certified.

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