

TT5000

TraceTek® fuel-sensing cable

TraceTek® TT5000 sensing cable detects the presence of liquid hydrocarbon fuels at any point along its length, yet 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

TT5000 sensing cable provides distributed leak detection and location for a wide range of applications. The cable is available in a variety of lengths to provide as much coverage as needed.

Design flexibility

TT5000 sensing cable is available in bulk reels, with connector kits or with factory-installed connectors that plug together. The cable is

designed for a variety of double-containment applications, including tanks, trenches, and piping. (See the "TraceTek Double-Containment Design Guide" for specific design alternatives.)

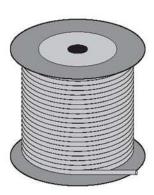
Advanced technology

The Raychem® radiation-crosslinking and conductive-polymer technologies are used to make TT5000 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 reliably in the most demanding environments.

Ordering Information







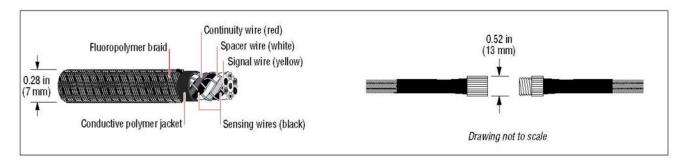
TT5000 zone sensing cable with factory-installed connector and end termination		
Catalog number	Description	
TT5000-Zone-MC	5 ft (1.5 m) sensing cable with heat-shrink end termination	

TT5000 modular sensing cable with factory-installed connectors

Description 1 ft (0.3 m) sensing cable	
10 ft (3 m) sensing cable	
15 ft (4.5 m) sensing cable	
25 ft (7.5 m) sensing cable	
50 ft (15 m) sensing cable	
100 ft (30 m) sensing cable	

TT5000 bulk sensing cable for installation in double-containment piping (connector kits required)

Catalog number	Description	
TT5000-SC	Bulk sensing cable on reel	
	Minimum length: 100 ft (30 m)	
	Maximum length: 800 ft (240 m)	
Connector kits (not shown)		
TT5000-CK-MC-M/F	Components for five mated pairs of	
(includes test tools)	connectors	
TT5000-CK-MC-M	One pin-type connector	
TT5000-CK-MC-F	One socket-type connector	



Product Characteristics			
Cable diameter	0.28 in (7 mm) nominal		
Cable diameter with connector	0.52 in (13 mm) nominal		
Cable weight (50 ft/15 m length)	2.4 lb (1.1 kg) -4°F to 140°F (-20°C to 60°C) Not to exceed 50 lb (22.7 kg)		
Operating temperature range			
Pull force limit			
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 alarn		
Nonresettable	Must be replaced after exposure to hydrocarbon liquids		
Chemical Resistance			
Cable functions normally after exposure in accordance with ASTM D 543 at 73°F (23°C) for seven days	Sulfuric acid (10%) Hydrochloric acid (10%) Nitric acid (10%) Sodium hydroxide (10%)		
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 Notes: Response Time Test Method: "Test Procedures for Third Party Evaluation of Leak Detection Methods; Cable Sensor Liquid Contact Leak Detection Systems." Response times are affected by operating temperature. Consult factory for specific response times at other temperatures and in other liquids.	Represented materials detected Gasoline #1 diesel fuel #2 diesel fuel JP5 jet fuel JP8 jet fuel Jet-A jet fuel Xylene	Typical response time at 68°F (20°C) 12 minutes 60 minutes 120 minutes 70 minutes 50 minutes 50 minutes 20 minutes	

Approvals







Sensing cable may be used in Class I, Division 2, Groups A, B, C, D Hazardous Locations. 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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