

# **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**

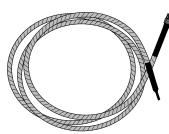
TT5000 sensing cable is available in bulk reels, with connector kits or with factory-

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

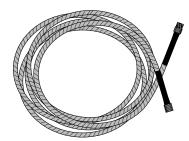
Raychem's radiation-crosslinking and conductive-polymer technologies are used to make TT5000 sensing cable mechanically strong and chemically resistant. The core of the cable is constructed of two sensing wires, an alarm signal wire, and a continuity wire. The core is encased in a conductive-polymer 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

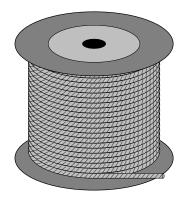
Catalog number TT5000–Zone–MC **Description** 5-ft (1.5 m) sensing cable with heat-shrink end termination.



# TT5000 modular sensing cables with factory-installed connectors

#### Catalog number

TT5000-0.3M/1FT-MC TT5000-1.5M/5FT-MC TT5000-3M/10FT-MC TT5000-4.5M/15FT-MC TT5000-7.5M/25FT-MC TT5000-15M/50FT-MC TT5000-30M/100FT-MC Description 1-ft (0.3 m) sensing cable 5-ft (1.5 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** (connector kits required) *for installation in double-containment piping* 

Catalog number TT5000–SC

Connector kits (not shown): TT5000–CK–MC–M/F

TT5000-CK-MC-M TT5000-CK-MC-F Description

Bulk sensing cable on reel Minimum length: 100 ft (30 m) Maximum length: 800 ft (240 m)

Components for five mated pairs of connectors (includes test tools) One pin-type connector One socket-type connector

0.28 in. (7 mm)	ve polymer jacket	0.52 in. (13 mm)
Product characteristics	Cable diameter Cable diameter with connector Cable weight (50-ft length) Operating temperature range Pull force limit Bend radius Pressure	0.28 in. (7 mm) nominal0.52 in. (13 mm) nominal2.4 lb-20°C to 60°C (-4°F to 140°F)Not to exceed 50 lb2 in. (50 mm) minimumLoads greater than 20 lb (9 kg) per linear inch at 20°C (68°F) may
	Nonresettable	immediately trigger an alarm. Must be replaced after exposure to hydrocarbon liquids.
Chemical resistance	Cable functions normally after exposure in accordance with ASTM D 543 at 23°C (73°F) for seven days:	Sulfuric acid (10%) Hydrochloric acid (10%) Nitric acid (10%) Sodium hydroxide (10%)
Water resistance	Sensing cable Connector system	Less than 10-µA leakage when immersed in salt water for 90 days. Less than 10-µA leakage when immersed in water at 10 psig for 24 hours.
Response time	Contact Leak Detection Systems."	Typical response time at 20°C (68°F): 12 minutes 60 minutes 120 minutes 70 minutes 50 minutes 50 minutes 20 minutes 20 minutes 20 minutes
		mperature. Consult factory for specific response times at other temperatures
Approvals ULISTED APPROVED OFF		ion 2, Groups A, B, C, D Hazardous Locations. If wiring from module meets may be used in Class I, Division 1, Groups A, B, C, D Hazardous Locations
ISO 9001	The TraceTek products group is a part of Raychem Chemelex Division. Chemelex Division is ISO 9001 certified.	
Raychem Corpo	ration All informa	tion, including illustrations, is believed to be reliable. Users, however, should independently

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