![TraceTek logo]

TT3000

TraceTek® sensing cable for conductive liquids

TraceTek®TT3000 sensing cable detects the presence of conductive liquids at any point along its length. Most acids and bases and even deionized water can be sensed and located. Installed with a TraceTek alarm and locating module, the cable senses the presence of fluid, triggers an alarm, and pinpoints the location.

Distributed sensing

TT3000 sensing cable provides distributed leak detection and location over a wide range of areas. The cable is available in a variety of lengths to provide as much coverage as needed.

Design flexibility

TT3000 sensing cable is available with factory-installed metal connectors that plug together. The measurement circuit is not dependent upon the condu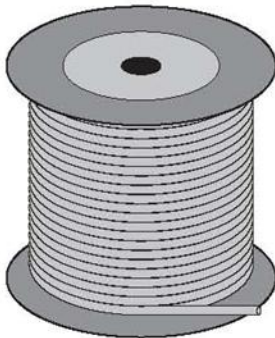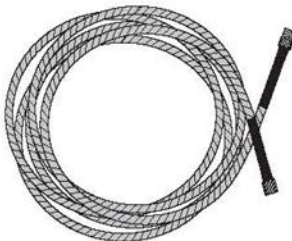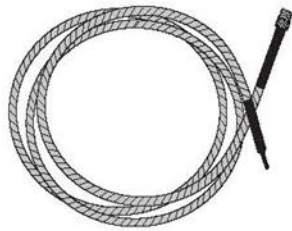ctivity of the leaking fluid. Therefore, the same cable will detect a wide range of fluids without special design considerations or calibration.

The cable is designed for a variety of applications, including floor surfaces, subfloors, equipment locations, pipes, storage tanks, and trenches. The cable is small, lightweight, and flexible, allowing easy installation. The smooth design allows quick drying.

Advanced technology

The Raychem®conductive-polymer technology and fluoropolymer construction make TT3000 sensing cable mechanically strong and chemically resistant. The cable is constructed of two sensing wires, an alarm signal wire, and a continuity wire embedded in a fluoropolymer carrier rod. This rugged construction exposes no metal, and enables the cable to be reused even in corrosive environments.

Ordering Information

TT3000 zone sensing cable with factory-installed connector and end termination

Catalog number	Description
TT3000–1.5M/5FT–MC–HSE	5 ft (1.5 m) sensing cable with preinstalled heat-shrink end termination

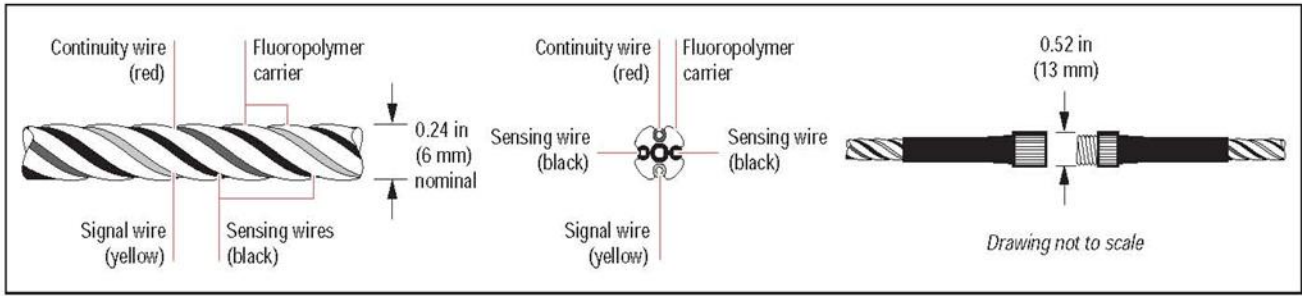**TT3000 modular sensing cable with factory-installed connectors**

Catalog number	Description
TT3000–0.3M/1FT–MC	1 ft (0.3 m) sensing cable
TT3000–1M/3FT–MC	3 ft (1 m) sensing cable
TT3000–1.5M/5FT–MC	5 ft (1.5 m) sensing cable
TT3000–3M/10FT–MC	10 ft (3 m) sensing cable
TT3000–4.5M/15FT–MC	15 ft (4.5 m) sensing cable
TT3000–7.5M/25FT–MC	25 ft (7.5 m) sensing cable
TT3000–15M/50FT–MC	50 ft (15 m) sensing cable
TT3000–30M/100FT–MC	100 ft (30 m) sensing cable

TT3000 bulk sensing cable for installation in double-containment piping (connector kits required)

Catalog number	Description
TT3000–SC	Bulk sensing cable on reel Minimum length: 250 ft (75 m) Maximum length: 1000 ft (300 m)

Connector kits (not shown)

Catalog number	Description
TT3000–CK–MC–M/F (includes test tools)	Components for five mated pairs of connectors
TT3000–CK–MC–M	One pin-type connector
TT3000–CK–MC–F	One socket-type connector

Continuity wire (red) | Fluoropolymer carrier | Signal wire (yellow) | Sensing wires (black)

0.24 in (6 mm) nominal

Continuity wire (red) | Fluoropolymer carrier | Sensing wire (black) | Sensing wire (black) | Signal wire (yellow)

0.52 in (13 mm)

Drawing not to scale

Product Characteristics

Cable diameter	0.24 in (6.0 mm) nominal
Cable diameter with connector	0.52 in (13 mm) nominal
Continuity and signal wires	2 x 26 AWG with insulation of fluoropolymer
Sensing wires	2 x 30 AWG with jacket of conductive fluoropolymer
Carrier	Fluoropolymer
Cable weight (50 ft/15 m length)	2.3 lb (1 kg)

Technical Information

Breaking strength	160 lb (72 kg)
Cut-through force	>50 lb with 0.005 in (>22 kg with 0.13 mm) blade; crosshead speed 0.2 in/min
Abrasion resistance	>65 cycles per UL 719
Maximum continuous operating temperature	Sensing cable: 194°F (90°C) Cable connectors: 185°F (85°C)

Chemical Resistance

Cable functions normally after exposure in accordance with ASTM D 543 at 77°F (25°C) for seven days: **Note:** Prolonged exposure to concentrated ketones may cause temporary reduction of sensitivity; consult factory.	Trichloroethylene (100%) Sulfuric acid (98%) Hydrochloric acid (37%) Hexane (100%) Methanol (100%) Sodium hydroxide (10%) Xylene (100%) Aqua regia

Radiation Resistance

Cumulative radiation exposure of 10 megarad gamma radiation over design life of 30 years

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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