TT1000

WATER SENSING CABLE

Cable construction

Continuity wire (red)

Fluoropolymer core

Signal wire (yellow)

Sensing wires (black)

Continuity wire (red)

Fluoropolymer core

Sensing wire (black)

Sensing wire (black)

Signal wire (yellow)

0.92 in (23 mm)
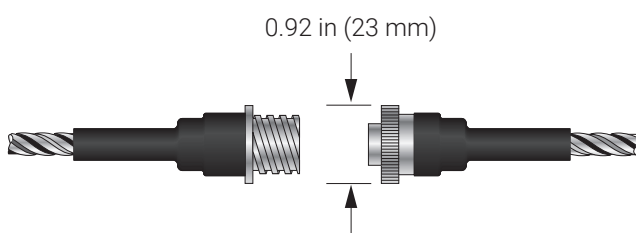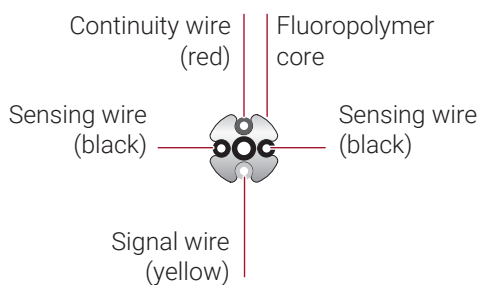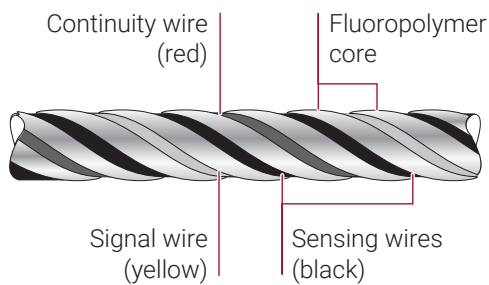
Drawing not to scale

PRODUCT OVERVIEW

nVent RAYCHEM TraceTek TT1000 sensing cables detect the presence of water at any point along their length. Installed with a TraceTek alarm and locating module, the cable senses water intrusion, triggers an alarm, and pinpoints the location.

Distributed sensing

TT1000 sensing cables provide 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

TT1000 sensing cable is supplied with factory-installed plastic connectors that plug together. The cable is designed for a range of applications, including data center subfloors, telecommunication rooms, HVAC equipment locations, pipes, electrical vaults, storage areas, tanks, and roofs. The cable is small, lightweight, and flexible, allowing easy installation. The smooth design allows for quick drying.

Advanced technology

The RAYCHEM conductive-polymer technology and fluoropolymer construction make TT1000 sensing cable mechanically strong and resistant to corrosion and abrasion. The cable is constructed of two sensing wires, an alarm signal wire, and a continuity wire embedded in a fluoropolymer carrier rod. The alarm module constantly monitors the sensing cable for continuity. The rugged cable construction exposes no metal, and enables the cable to be reused even in corrosive environments.
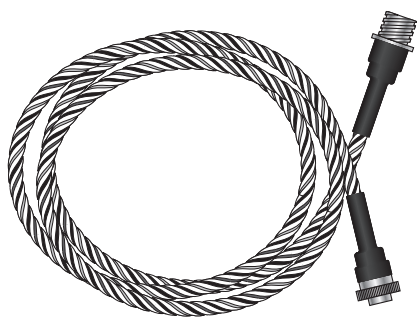
TT1000 modular sensing cable with factory-installed connectors

Catalog number	Part number	Description
TT1000−1M/3FT−PC	409271-000	3 ft (1 m) sensing cable
TT1000−3M/10FT−PC	391887-000	10 ft (3 m) sensing cable
TT1000−5M/17FT−PC	072827-000	17 ft (5 m) sensing cable
TT1000−7M/25FT−PC	017859-000	25 ft (7 m) sensing cable
TT1000−15M/50FT−PC	805147-000	50 ft (15 m) sensing cable
TT1000−30M/100FT−PC	396807-000	100 ft (30 m) sensing cable
TT1000−50M/165FT−PC	P000000873	165 ft (50 m) sensing cable
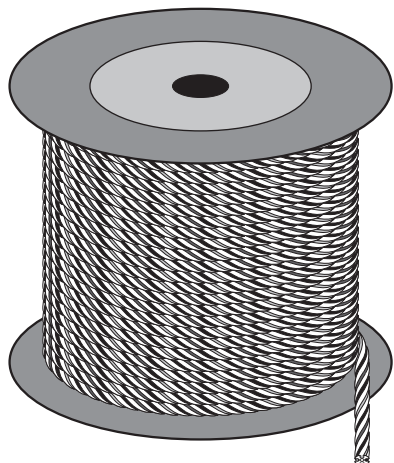
TT1000 bulk sensing cable (connector kits required)

Catalog number	Part number	Description
TT1000−SC	683901-000	Bulk sensing cable on reel Minimum length: 250 ft (75 m) Maximum length: 1000 ft (300 m)

Connector kits (not shown)

Catalog number	Part number	Description
TT-1000 / JC−CK−PC−M/F	P000000080	Components for ten mated pairs of connectors

Notes:

• Refer to the Product Selection Guide (H53874) for other components of the TraceTek system.

• TT1000 sensing cables are compatible with existing TraceTek TT100 systems.

PRODUCT CHARACTERISTICS

Cable diameter	0.24 in (6.0 mm) nominal
Continuity and signal wires	2 x 26 AWG with fluoropolymer insulation
Sensing wires	2 x 30 AWG with conductive fluoropolymer jacket
Core	Fluoropolymer
Cable weight (50 ft/15 m length)	2.3 lb (1 kg)
Cable color	High-visibility yellow

TECHNICAL INFORMATION

Breaking strength	Cable only: 160 lb (72 kg) Including connectors: 70 lb (32 kg)
Cut-through force	>50 lb with 0.005 (>22 kg with 0.13 mm) in blade; crosshead speed 0.2 in/min
Abrasion resistance	>65 c ycles per UL 719
Maximum continuous operating temperature	174°F (75°C)
Fire resistance	Meets the requirements of NFPA 262 "Standard Method of Test for Flame Travel and Smoke of Wires and Cables for use in Air-Handling Spaces"

PERFORMANCE DATA

Leak size to alarm (tap water)	2 in (50 mm) maximum at any point along sensing cable; up to 5000 ft maximum system length
Drying time	Cable dries and resets within 15 seconds of removal from standing water
Standard cleaning method	Wipe with clean damp cloth

APPROVALS AND CERTIFICATIONS

TraceTek TT1000 sensing cables are approved for installation in ordinary and hazardous areas when used in conjunction with approved TraceTek monitoring equipment and zener safety barriers when appropriate.

All TraceTek sensing cables are designated as "simple apparatus" and included in the approval certification for TraceTek monitoring instruments.

Consult the specific data sheets and approval certificates for the TraceTek TTSIM-128, TTSIM-1, TTSIM-1A, TTSIM-2, TTC-1 and TT-FLASHER-BE for application limitations and specific area approvals and certifications.

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