

## Water Sensing Cable for Suspended Pipes



nVent RAYCHEM TraceTek TT1100-OHP sensor cable detects water leaks at any point along the cable length. When used in conjunction with nVent RAYCHEM TraceTek monitoring instruments, the cable senses the presence of a water leak, triggers an alarm and pinpoints the location of the leak to within  $\pm 1$  meter accuracy.

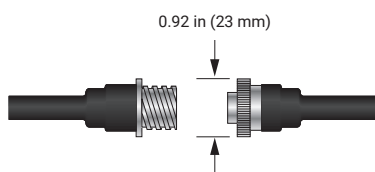
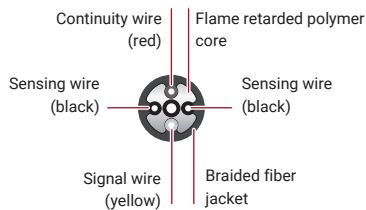
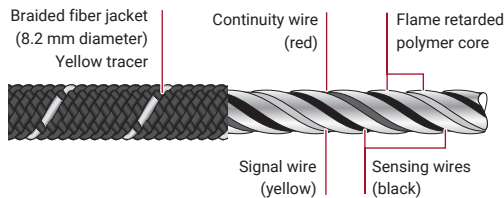
### Targeted design for suspended piping

TT1100-OHP is supplied with an absorptive synthetic fiber braid designed to wick water along the cable even when the water leak is dripping from a single small pin hole or crack. The fiber is selected to be rapid drying so that once the leak is located and repaired, the cable will quickly dry and be ready for re-use, in many cases as soon as the pipe repairs are completed.

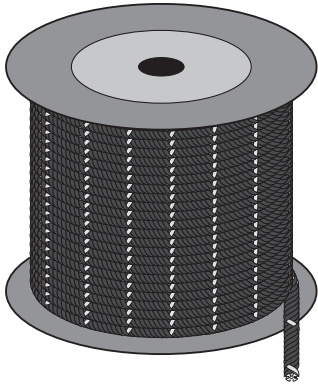
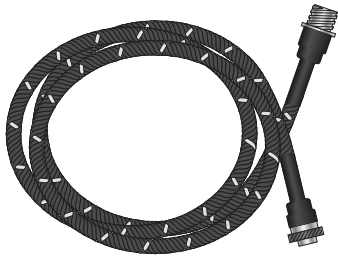
### Strap directly to the pipe - eliminate drip trays

TT1100-OHP is a distributed sensor that can be attached to the bottom of suspended piping with nylon tie-wraps. There is no need for a drip tray to bring water into contact with the sensor cable. The braided fiber jacket provides extra mechanical protection and strength for ease of installation in construction environments.

TT1100-OHP is available in bulk lengths or pre-terminated in standard lengths. TT1100-OHP is compatible with all nVent RAYCHEM TraceTek instruments and software.



**Cable construction**



## ORDERING INFORMATION

### TT1100-OHP modular sensing cable with factory-installed connectors

| Catalog number     | Part number | Description                  |
|--------------------|-------------|------------------------------|
| TT1100-OHP-1M-PC   | P000000812  | 3 ft (1 m) sensing cable     |
| TT1100-OHP-3M-PC   | P000000811  | 10 ft (3 m) sensing cable    |
| TT1100-OHP-5M-PC   | P000001378  | 17 ft (5 m) sensing cable    |
| TT1100-OHP-7.5M-PC | P000000810  | 25 ft (7 m) sensing cable    |
| TT1100-OHP-15M-PC  | P000000809  | 50 ft (15 m) sensing cable   |
| TT1100-OHP-30M-PC  | P000000808  | 100 ft (30 m) sensing cable  |
| TT1100-OHP-50M-PC  | P000000807  | 165 ft (50 m) sensing cable  |
| TT1100-OHP-100M-PC | P000000806  | 328 ft (100 m) sensing cable |

### TT1000 bulk sensing cable (connector kits required)

| Catalog number | Part number | Description  |
|----------------|-------------|--|
| TT1100-OHP-SC  | P000000805  | Bulk sensing cable on reel<br>Minimum length: 350 ft (75 m)<br>Maximum length: 1000 ft (300 m) |

### Connector kits (not shown)

| Catalog number        | Part number | Description                                  |
|-----------------------|-------------|--|
| TT-1100-OHP-CK-PC-M/F | P000001186  | Components for ten mated pairs of connectors |

## PRODUCT CHARACTERISTICS

|                                |   |
|--------------------------------|---|
| Cable diameter                 | 8.2 mm nominal                                  |
| Cable diameter with connectors | 23 mm nominal                                   |
| Signal wires                   | 2 x 26 AWG with fluoropolymer insulation        |
| Sensing wires                  | 2 x 30 AWG with conductive fluoropolymer jacket |
| Core                           | Flame retarded polymer                          |
| Cable weight                   | 5.86 kg / 100 m nominal                         |

## TECHNICAL INFORMATION

|  |   |
|--|---|
| Breaking strength                        | >100 kg                                   |
| Cut-through force                        | >50 kg (using 0.05" radius blade)         |
| Maximum continuous operating temperature | 80°C                                      |
| Resistance to humidity                   | <2 µA leakage per 100 feet @ 90% RH / 20C |

## APPROVALS AND CERTIFICATIONS

TT1100 sensing cables are approved for installation in ordinary and hazardous areas when used in conjunction with approved nVent RAYCHEM TraceTek monitoring equipment and zener safety barriers when appropriate.

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

Consult the specific data sheets and approval certificates for the nVent RAYCHEM TraceTek TT-TS12, TTDM-128, TTSIM-1, TTSIM-1A, TTSIM-2, TTC-1 and TT-FLASHER-BE for application limitations and specific area approvals and certifications.



General Signaling Equipment  
76LJ



The TT1100-OHP sensing cable is FM approved in the TraceTek Leak Detection System when installed with a TraceTek Alarm and Locator Module to detect and locate water.

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