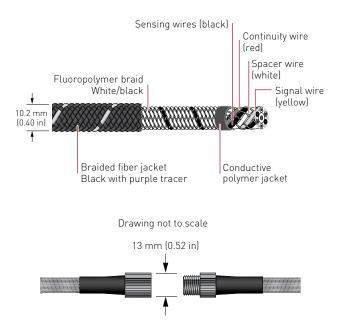


TraceTek TT5001-HUV SOLVENT SENSING CABLE FOR ABOVEGROUND LEAK DETECTION

Cable construction



PRODUCT OVERVIEW

TraceTek TT5001-HUV sensing cable detects the presence of liquid organic solvents at any point along its length, yet it does not react to the presence of water. Installed with a TraceTek Sensor Interface Module and TraceTek Alarm Panel, the cable senses the solvent liquid, triggers an alarm and pinpoints the location of the leak within one meter.

Designed for aboveground leak detection

TT5001-HUV sensing cable is designed for use on aboveground pipe, around pump pads or valves where the cable will be exposed to sunlight and weather during its service life. The sensor cable core is standard TT5001 with well documented response times, and years of successful applications. The cable can be purchased in bulk form, cut to length in the field and joined using connector kits, or it can be obtained in standard or custom cut lengths with connectors attached in the factory. The cable is designed to be attached to the bottom of horizontal piping, spiraled around vertical pipe, or placed on flat surfaces below or around pumps and valves and other applications where surface level fuel leaks and spills can be anticipated.

Distinctive appearance and ready for chemical facility, tank farm and terminal applications

TT5001-HUV sensing cable has a matte black rope outer layer with a purple tracer stripe. The rope outer layer is fabricated with thousands of individual filaments that add strength and excellent protection from the damaging effects of direct sunlight exposure. Additionally, this rope layer makes the sensor cable resistant to kinks and pliable, yet rugged enough for installation and long service life in pipe applications.

The sensor cable can have connectors wherever necessary; can be branched as needed and in general can be tailored to match the piping network. Circuits up to 1000 meters can be constructed by connecting individual segments. Multiple circuits can be monitored from a single control room location.

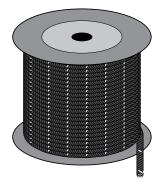
Advanced technology

TraceTek uses radiation cross-linking and conductivepolymer technology to make TT5001-HUV cable. The combination of water and chemically resistant cable core coupled with the enhanced UV protection provided by the rope outer layer yield a product well suited for aboveground leak detection. The cable is able to withstand the rigors of installation and long years of service with exposure to rain, snow, sunlight and similar weather stresses.

ORDERING INFORMATION







TT5001-HUV modular sensing cable with factory-installed connectors						
Catalog number	Part number	Description				
TT5001-HUV-1M-MC	P000000836	1 m (3 ft) sensing cable				
TT5001-HUV-3M-MC	P000000835	3 m (10 ft) sensing cable				
TT5001-HUV-7.5M-MC	P000000834	7.5 m (25 ft) sensing cable				
TT5001-HUV-15M-MC	P000000833	15 m (50 ft) sensing cable				
TT5001-HUV-30M-MC	P000000832	30 m (100 ft) sensing cable				
TT5001-HUV-50M-MC	P000000831	50 m (164 ft) sensing cable				
TT5001-HUV-100M-MC	P000000830	100 m (328 ft) sensing cable				
TT5001-HUV bulk sensing cable (connector kits required)						
Catalog number	Part number	Description				
TT5001-HUV-SC	P000000829	Bulk sensing cable on reel Minimum length: 30 m (100 ft) Maximum length: 240 m (800 ft)				
Connector kits (not shown)						
Catalog number	Part number	Description				
TT5000-HUV-CK-MC-M/F (includes test tools)	P000001207	Components for five mated pairs of connectors				
Installation Materials						
Catalog number	Part number	Description				
TT-PU-FOAM-2x0.5	P000001136	2-inch wide foam with adhesive backing				
TT-VSTRAP-1.5x75ft	P000001135	Fastening strap				

PRODUCT CHARACTERISTICS

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Cable diameter	7 mm (0.28 in) nominal		
Cable diameter with connector	13 mm (0.52 in) nominal		
Cable diameter with fiber jacket	10.2 mm (0.40 in) nominal		
Fluoropolymer braid	Color—white and black		
Braided fiber jacket	Color—black with purple tracer		
Cable weight	8.8 kg/100 m nominal (5.9 lb/100 ft nominal)		
Operating temperature range	-20°C to 60°C (-4°F to 140°F)		
Pull force limit	Not to exceed 100 kg (220 lb)		
Bend radius	50 mm (2 in) minimum		
Pressure	Loads greater than 9 kg (20 lb) per linear inch at 20°C (68°F) may immediately trigger an alarm		
Nonresettable	Must be replaced after exposure to most solvents		

CHEMICAL RESISTANCE

Cable functions normally	Sulfuric acid	(10%)
after exposure in accordance	Hydrochloric acid	(10%)
with ASTM D 543 at 23°C	Nitric acid	(10%)
(73°F) for seven days	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

Represented materials detected	Typical response time at 68°F (20°C)	
Toluene	10 min	
Dichloromethane	5 min	
(methylene chloride)		
1, 1, 1-trichloroethylene (TCE)	8 min	
Trichloroethane (TCA)	20 min	
Methyl ethyl ketone (MEK) ⁺	10 min ⁺	
Acetone ⁺	10 min ⁺	
n-methyl pyrrolidone (NMP)†	60 min†	
Isopropyl alcohol (anhydrous)	90 min	

Notes:

- Response times are based on 2 in (50 mm) of cable immersed in liquid.
- Response times are affected by operating temperature. Consult factory for specific response times at other temperatures and in other liquids.
- + Prolonged immersion in ketones will inhibit sensing-cable performance.

APPROVALS AND CERTIFICATIONS

TraceTek TT5001-HUV 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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