



TraceTek[®] Fuel Sensing Cable for Underground Leak Detection

TraceTek® TT5000-HS sensing cable detects the presence of liquid hydrocarbon fuels 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 hydrocarbon liquid, triggers an alarm and pinpoints the location of a leak within one meter.

Designed for underground leak detection

TT5000-HS sensing cable is designed for use within slotted PVC conduit and is constructed with an outer layer of polyethylene fibers to provide extra pulling strength and low friction during the installation process. The sensor cable core is standard TT5000 with well documented response times, numerous third party qualifications 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 pull through 42 mm or 1-1/2 in slotted schedule 80 PVC conduit with up to 240 m (800 ft) between pull boxes.

Distinctive appearance and ready for pipeline projects

TT5000-HS sensing cable has a glossy white outer layer of rope fibers. The polyethylene rope outer layer is fabricated with a number of individual filaments that collectively increase the pulling force limit to greater than 100 kg (220 lb). At the same time, the outer rope layer dramatically reduces frictional drag between the cable and the PVC conduit, thereby facilitating long distances between pull boxes. In many cases four lengths of TT5000-HS will be joined to form a single TraceTek circuit of 1000 meters.

TT5000-HS modular sensing cable with factory-installed connectors

Multiple circuits can be monitored from a single location, thus permitting pipeline applications from a few hundred meters to many kilometers.

Advanced Technology

TraceTek uses radiation cross-linking and conductive-polymer technology to make TT5000-HS cables. The combination of water and chemically resistant inner wall coupled with the enhanced strength of the polyethylene outer rope layer yield a product well suited for underground leak detection. The cable is able to withstand both the rigors of installation and long years of service underground with exposure to ground water and various soil conditions. Mildly acidic or alkaline conditions, exposure to detergents and similar tough conditions are well tolerated. The cable can even be installed in many 'brown field' conditions where older spills have been remediated but traces of hydrocarbon remain present in the soil and ground water.

Ordering information





Catalog Number	Part Number	Description
TT5000-HS-MC	P000000581	Sensing cable with connectors—custom order by meter
TT5000-HS bulk sensing cable (connec	tor kits required)	
Catalog Number	Part Number	Description
TT5000-HS	P000000094	Bulk sensing cable on reel Minimum length: 30 m (100 ft) Maximum length: 240 m (800 ft)
TT5000–HS–HYB–XXX/YYY/ZZZ–HSE	N/A	Custom order of TT5000–HS/JC–BLACK jumper cable/pull rope spooled together.
		Length (ft) of TT5000–HS sensing cable represented by XXX. Length (ft) of TT–JC–BLACK jumper cable represented by YYY. Length (ft) of TT–PR pull rope represented by ZZZ.
Connector kits (not shown)		
Catalog Number	Part Number	Description



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

TT5000-HS Fuel Sensing Cable



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