

## Fuel Leak Detection Cable Model P-LFP6000 Data Sheet



### Product Overview

P-LFP6000 Fuel sensing cable detects the presence of liquid hydrocarbon fuels at any point along its length, yet does not react to the presence of water. Installed with a Prosino alarm and locating module, the cable senses the liquid, triggers an alarm, and pinpoints the location of the leak within one meter.

### **Distributed sensing**

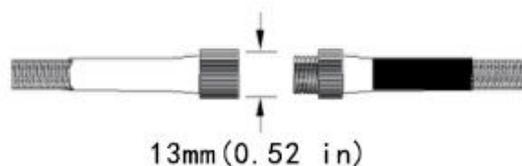
P-LFP6000 sensing cable provides distributed leak detection and location for a wide range of applications. The cable is available in a variety of lengths to provide as much coverage as needed.

### **Design flexibility**

P-LFP6000 sensing 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 lengths with connectors attached in the factory. These modular sensing cables may be connected in series to provide distributed monitoring for trenches, subfloors, and double-containment piping, or used individually for double-containment tanks, sumps, and small areas. P-LFP6000 zone sensing cable—which comes with a factory-installed, heat-shrink end termination—is also available for small area coverage.

### **Advanced technology**

Prosino Group uses radiation-crosslinking and conductive-polymer technology to make P-LFP6000 sensing cable mechanically strong and chemically resistant. The core of the cable is constructed of two sensing wires, an alarm signal wire, and a continuity wire. The core is encased in a conductive-polymer jacket and surrounded with a fluoropolymer braid. This rugged construction allows the cable to perform reliably in the most demanding environments.



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## Product characteristics

Cable diameter	8 mm (0.32 in) nominal
Cable diameter with connector	13 mm (0.52 in) nominal
Cable weight	7.3 kg/100 m nominal (4.81 lb/100 ft nominal)
Fluoropolymer braid	Color—red, white and black
Operating temperature range	–20°C to 60°C (–4°F to 140°F)
Pull force limit	Not to exceed 22.7 kg (50 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 hydrocarbon liquids

## Chemical resistance

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

## Water Resistance

Sensing cable	Less than 10 µA leakage when immersed in salt water for 90 days
Connector system	Less than 10 µA leakage when immersed in water at 10 psig for 24 hours

## Response time

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Represented materials detected	Typical response time at 20°C (68°F)
Gasoline	3minutes
#1 diesel fuel	30 minutes
#2 diesel fuel	60 minutes
JP5 jet fuel	30 minutes
JP8 jet fuel	20 minutes
Jet-A jet fuel	20 minutes
Xylene	10 minutes

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### **Notes:**

- Response Time Test Method: “Test Procedures for Third Party Evaluation of Leak Detection Methods; Cable Sensor Liquid Contact Leak Detection Systems.”
- Response times are affected by operating temperature. Consult factory for specific re-sponse times at other temperatures and in other liquids.

## Approvals and Certifications

Prosino P-LFP6000 sensing cables are approved for installation in ordinary and hazardous areas when used in conjunction with approved Prosino Group monitoring equipment and zener safety barriers when appropriate.

All Prosino Group sensing cables are designated as “simple apparatus” and included in the approval certification for Prosino Group monitoring instruments.