LEAK DETECTION

Ranger Hydrocarbon Fuel Detection Cable

Detects the presence of liquid hydrocarbon fuels at any point along its length yet does not react to the presence of water.



Detects liquid hydrocarbon fuels — but not water

Installed with a Floodline® Ranger Control Panel, the cable senses the liquid, triggers an alarm and pinpoints the location of the leak to within one metre. Andel Ranger Hydrocarbon Fuel Detection Cable provides distributed leak detection and location for a wide range of applications, and is available in a variety of lengths to provide as much coverage as needed.

Distributed monitoring

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.

Rugged construction

Radiation-crosslinking and conductive-polymer technology is used to make the cable mechanically strong and chemically resistant. The core 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, allowing the cable to perform reliably in the most demanding environments.

Benefits at a glance

- Pinpoints the leak location within one metre
- Available in a variety of lengths
- Rugged construction
- Reliable in demanding environments
- Quick and easy installation
- Mechanically strong and chemically resistant



Andel Ranger Hydrocarbon Fuel Detection Cable — conductive-polymer core with a red/white/black fluoropolymer braid.

Response times are affected by operating temperature. Consult Andel for specific response times at other temperatures and in other liquids.

Configurations

Ranger Hydrocarbon Detection Cable 2m	Ranger Hydrocarbon Detection Cable 10m	Ranger Hydrocarbon Detection Cable 5m
Item 600400	Item 600401	Item 600405

TECHNICAL INFORMATION

PRODUCT CHARACTERISTICS

Cable diameter: 8mm nominal (13mm nominal with connector)

Cable weight: 7.3 kg/100m nominal

Fluoropolymer braid colour: Red, white and black

Operating temperature range: -20°C to 60°C

Pull force limit: Not to exceed 22.7 kg (50 lb)

Bend radius: 50mm (minimum)

Pressure: Loads greater than 9 kg per linear inch at 20°C may immediately trigger an alarm

Non-resettable: Must be replaced after exposure

CHEMICAL RESISTANCE

Tested to: Cable functions normally after exposure in accordance with ASTM D 543 at 23°C for seven days

Resistant to: Sulphuric acid (10%), hydrochloric acid (10%), sodium hydroxide (10%), nitric acid (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 (TYPICAL, AT 20°C)

Gasoline: 3 minutes

#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

Standards & certifications

- ASTM D 543