

- ▶ Intermediate Sensitivity
- ▶ Fast Response with Light and Middle Distillates
- ▶ Leak Location on Section Length
- ▶ Re-usable and Pre-connected Cable
- ▶ Suitable for Explosive Area Service
- ▶ Insensitive to Water and Inorganic Pollutants

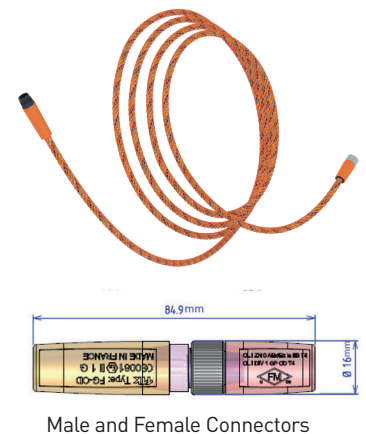
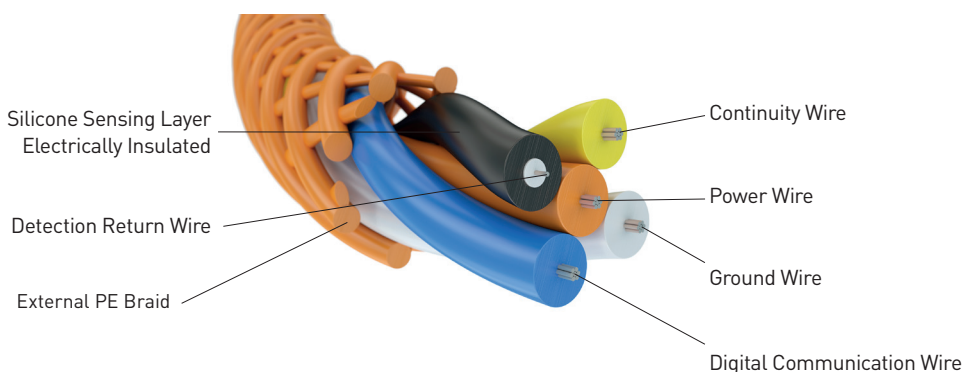
## Description

The TTK digital sense cable FG-OD detects and locates liquid hydrocarbons and certain water-insoluble liquids anywhere along its length. Thanks to its embedded microchip, each cable has independent digital addressing, enabling multiple leak detections on a panel output. It offers a fast response, is reusable after detection, and remains unaffected by water or inorganic contamination, making it ideal for humid environments.

## Key Advantages

- Standard length (9, 22, 39, 65 ft or 3, 7, 12, 20m) sensor sections or long line section allowing optimised system architecture.
  - Microprocessor embedded in each FG-OD sense cable allowing independent digital transmission to the alarm unit.
  - Standard length sense cable provided with built-in plug-socket connector.
  - Long line provided with built-in intermediate embedded connections (for each section), plus connector at extremities on demand.
  - Structure of the sense cable comprising a silicon sensing wire, a continuity wire, a communication wire (proprietary bus) and the power supply wires. Protective external PE braid built on the cable.
  - Reliable detection:
    - Sensitive to liquid hydrocarbons.
    - Insensitive to water, inorganic pollutants and external loads (pressure).
  - Can be reused, allowing leak detection tests under real conditions.
  - Examples of detection time: **Gasoline: 3-6 minutes (\*), Diesel Oil: 25-35 minutes (\*), Jet Fuels: 10-20 minutes (\*).**
  - Detects and locates hydrocarbon leaks on the section length.
  - The same unit FG-NET can be connected to FG-OD sense cables and mixed with water or acids / bases sense cables at the same time.
  - Easy to install and remove: standard FG-OD cables pre-connected with male / female connectors.
- Note (\*): depending on liquid composition and leak conditions

## Cable Structure



## Technical Data

<b>Compatibility</b>	Digital units: FG-NET*, FG-NET-LL, FG-ALS8-OD, FG-ALS4-OD, FG-A-OD Satellite devices: FG-BBOX*, FG-BBOX-LL Sense cables: Compatible with water and acid sense cables on the same panel output via an interface box. [*FG-DOD interface box required for connecting OD range cables/probes to non-OD range panels]
<b>Reusability</b>	Reusable, as long as the cable hasn't been damaged by prolonged immersion in liquid
<b>Sense Cable Material &amp; Nominal Diameter</b>	PE, 0.39 in (10 mm)
<b>Sensor Wires Material &amp; Nominal Diameter</b>	PE, 0,08 in (2 mm)
<b>Sense Cable Weight (Without Connector)</b>	4.04 lbs / 100 ft (6 kg / 100 m)
<b>Minimum Bend Radius</b>	1.97" or 50 mm
<b>Sense Cable Color</b>	Orange braid
<b>Operating Temperature</b>	-22° to 212°F (-30° to 100°C)
<b>Maximum Pressure</b>	3 bar
<b>Maximum Tensile Strength (Incl. Connection)</b>	88 lb (40 kg)
<b>Connector Nominal Diameter</b>	0.63 in (16 mm)
<b>Connector Ingress Protection (IP Rating - DIN/EN/IEC60529)</b>	IP 68
<b>Explosive Area Classification</b>	Ex ia IIB T4 Ga (ATEX "Zone 0")
<b>Direct Burial Capacity</b>	Possible

## Identification Codes

<b>FG-OD3</b>	Addressable Oil Sense Cable in 9 ft (3 m) with Connectors
<b>FG-OD7</b>	Addressable Oil Sense Cable in 22 ft (7 m) with Connectors
<b>FG-OD12</b>	Addressable Oil Sense Cable in 39 ft (12 m) with Connectors
<b>FG-OD20</b>	Addressable Oil Sense Cable in 65 ft (20m) with Connectors
<b>Accessories:</b>	
<b>FG-CLOD</b>	Leader Cable, on OD Bus 8771
<b>FG-TMOD</b>	Digital End Plug on OD Bus 8771 for FG-OD Cable
<b>FG-NOD 'N'</b>	OD Bus 8771 Neutral Cable 'N' (9, 22, 49, 98 ft) (1, 3, 7, 15, 30 m) with Connectors
<b>CF-OD50</b>	50 Hold-down Clips with Adhesive for Oil Cables
<b>ES-OD</b>	40 Tags for Oil Cable

## Certifications



TTK - Type: FG-OD  
CE 0081 Ex II 1 G  
Ex ia IIB T4 Ga  
LCIE 13 ATEX 3082 X  
LECEX LCIE 13.0072X

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