

- ▶ Very High Sensitivity
- ▶ Very Fast Response with Light and Middle Distillates
- ▶ Sensitive to Heavy Oils and Hydrocarbon Vapors
- ▶ 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-ODC+ detects and locates liquid hydrocarbons and certain water-insoluble liquids and their vapors anywhere along its length. The sensor element is optimized for very fast response with light to middle distillates, and is sensitive to heavy oils such as conventional crude oils, dilbit / synbit, as well as to hydrocarbon vapors. The cable is more sensitive than FG-ODC cable.

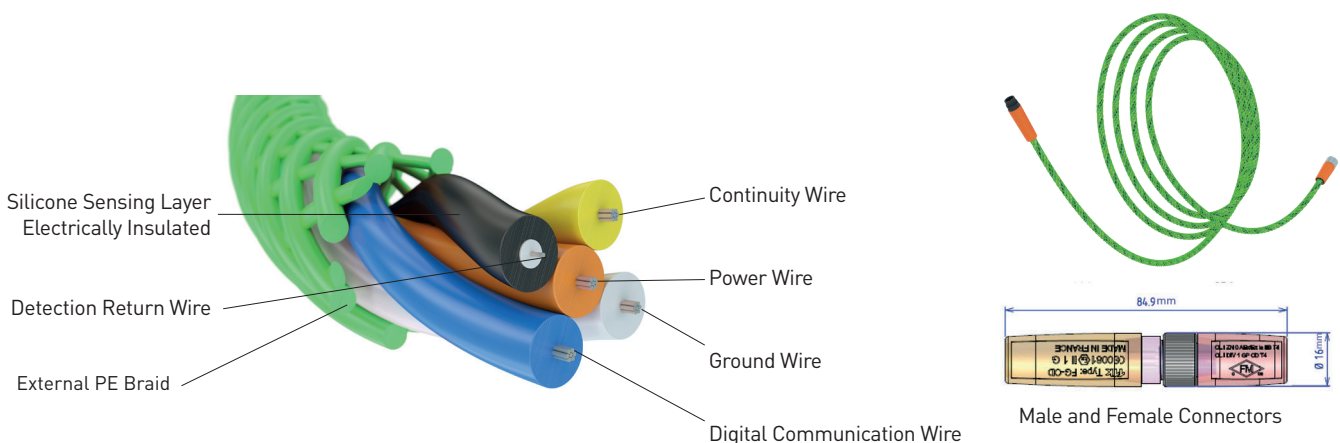
Thanks to its embedded microchip, each cable has independent digital addressing, enabling multiple leak detections on a panel output. It offers a fast response, is reusable after detection, and remains unaffected by water or inorganic contamination, making it ideal for humid environments.

## Key Advantages

- Standard length 3 m sensor sections.
- Microcontroller embedded in each FG-ODC+ sense cable allowing independent digital transmission to the alarm unit.
- Standard length sense cable provided with built-in plug-socket connector.
- 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.
- Intrinsically safe - can be used in classified areas: Ex ia IIB T4 Ga (IECEx "Zone 0").
- Reliable detection:
  - Sensitive to heavy oils and vapors.
  - Insensitive to water, inorganic pollutants and external loads (pressure).
- Can be reused, provided that heavy hydrocarbon residues are thoroughly cleaned.
- High sensitivity: examples of detection time: **Diesel at 2-5 minutes (\*)**, **Gasoline: less than 1 minute (\*)**.
- Detects and locates hydrocarbon leaks on the section length.
- The same unit FG-NET can be connected to FG-ODC+ sense cables and mixed with water or acids / bases sense cables at the same time.
- Easy to install and remove: standard FG-ODC+ 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 acids 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, 10 mm
<b>Sensor Wires Material &amp; Nominal Diameter</b>	PE, 2 mm
<b>Sense Cable Weight (3 m)</b>	0.3 kg
<b>Minimum Bend Radius</b>	50 mm
<b>Sense Cable Color</b>	Green braid
<b>Operating Temperature</b>	-30° to 100°C
<b>Maximum Pressure</b>	3 bar
<b>Maximum Tensile Strength (Incl. Connection)</b>	40 kg
<b>Connector Nominal Diameter</b>	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-ODC+3</b>	Addressable Oil Sense Cable in 3m 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' (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 ia IIB T4 Ga  
LCIE 13 ATEX 3082 X  
LECEX LCIE 13.0072X

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