

- Compatible with Locating Systems
- Unique Dust-Proof Feature Efficiently Preventing False Alarms
- Available in Standard Lengths

## Description

The TTK sense cable FG-ACS detects the presence of acids and water at any point along its length. The FG-ACS sense cable connects to TTK's locating units (FG-NET, FG-SYS, FG-ALS8 & FG-ALS4) or non-locating units (FG-A), to immediately respond to any leaks of acids and corrosive chemical liquids.

## Key Advantages

### A RELIABLE SENSE CABLE

The FG-ACS sense cable performs the following functions:

- Rapidly detects the leak of acids and water along the length of the cable.
- Detects and locates leaks when connected to a Locating Alarm Unit: FG-NET, FG-SYS, FG-ALS8 or FG-ALS4.
- Detects leaks when connected to a Non-locating Alarm Unit: FG-A.
- Detects any break or cut to the cable.
- Ingenious design: four sensing wires of helical construction, compressed and connected on an extruded central core, **efficiently prevent false alarms** that have been triggered by **dust and all kinds of conductive residue** from the environment that has accumulated on the cable surface.

### A MODULAR SYSTEM

The FG-ACS cable ensures permanent protection in areas at risk. FG-ACS is available in standard and pre-finished lengths of 9, 22 and 49

ft [3, 7, 15 m]. The sense cable is installed to provide the best possible protection in order to cover risks and limit the financial consequences of an undetected acids leak.

### EASY INSTALLATION

A spliced junction with a length of 11.5 ft [3.5 m] of Plenum bus jumper cable and an end termination at each length of FG-ACS sense cable give immediate connection to the unit or to the sector diversion box.

Special fixing clips are used to fasten the sense cables in the chosen areas. A set of jumper cables and pre-finished connection accessories gives continuity to each circuit with the sector diversion box FG-DTCS.

### A TOUGH AND STURDY DESIGN

Small in diameter, the FG-ACS sense cable is light, flexible and of an easily identifiable color. The FG-ACS sense cable is a non-absorbent design that **can be reused** after cleaning in most cases, thereby reducing the maintenance costs.

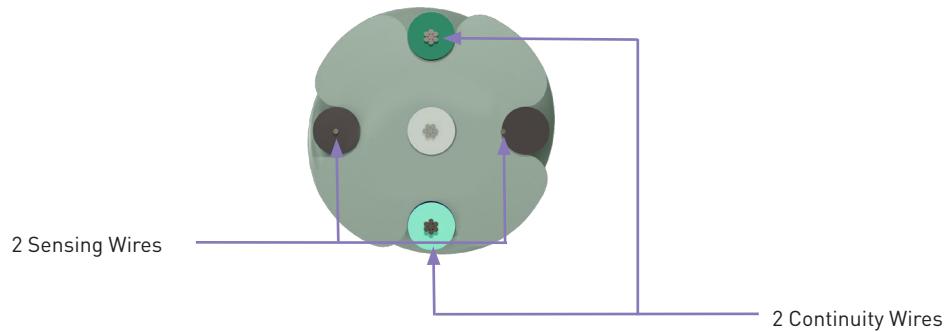
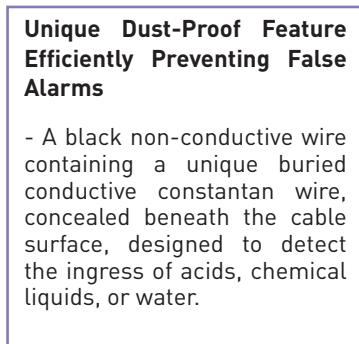
## Technical Data

<b>Compatibility</b>	Locating units: FG-SYS, FG-NET, FG-BBOX (via Diversion Box: FG-DTCS, DCTL), FG-ALS8, FG-ALS4 Non-locating unit: FG-A
<b>Reusability</b>	Reusable, as long as the cable hasn't been damaged by prolonged immersion in liquid
<b>Drying Time for Cable After Leak</b>	10 – 20 seconds, depending on site conditions
<b>Sense Cable Material &amp; Nominal Diameter</b>	PVDF, 0.25 in ( $\pm$ 0.02 in) (6.5 mm ( $\pm$ 0.5 mm))
<b>Sensor Wires Material &amp; Diameter</b>	PVDF, 0.05 in (1.2 mm)
<b>Core Material</b>	PVDF
<b>Sense Cable Weight (9, 22, 49 ft)</b>	0.6 lb, 1.15 lb, 2.56 lb (0.27 kg, 0.52 kg, 1.16 kg)
<b>Minimum Bend Radius</b>	0.79 in (20 mm)
<b>Sense Cable Color</b>	Green and light gray
<b>Operating Temperature</b>	-40° to 185°F (-40° to +85°C)
<b>Ingress Protection</b>	IP 67

# Product Diagram

## FG-ACS Sense Cable Cutting View

2 Communication Wires and 2 Wires for Locating and Detection



*Non-contractual images*

## Identification Codes

FG-ACS3	Acids Sense Cable in 9 ft (3 m) Sealed to 11.5 ft (3.5 m) of Neutral Cable
FG-ACS7	Acids Sense Cable in 22 ft (7 m) Sealed to 11.5 ft (3.5 m) of Neutral Cable
FG-ACS15	Acids Sense Cable in 49 ft (15 m) Sealed to 11.5 ft (3.5 m) of Neutral Cable
<b>Accessories:</b>	
FG-DTCS	Addressable Box
CF-EC100	100 Hold-down Clips with Adhesive
ES-EC	40 Signal Tags

## Certification



FG-ACS sense cable is compliant to NFPA 262 (known also as UL910). NFPA: National Fire Protection Association  
All TTK sense cables are designed as a part of the leak detection system and were used for the approval certification for TTK monitoring panels.  
• FG-NET and FG-SYS are UL Listed.  
• FG-NET system is certified FM7745.

This brochure has been carefully prepared to ensure technical accuracy but is only intended for promotional use. TTK cannot guarantee that the information contained herein contains no errors or omissions, and hence does not accept responsibility related to the use of its equipment. TTK maintain its obligations set forth in the Standard Terms and Conditions of Sale and will not, under any circumstances, assume liability for any incidental damages, indirect or consequential, arising from the sale, resale, use or misuse of this project. The purchaser(s) accept their responsibility as the sole judge(s) of the adaptability of the product for the intended use. FG-NET, FG-SYS and TOPSurveillance are trademarks of TTK S.A.S. © TTK 2025

- **TTK USA Inc.** / 100 S. Broad Street, Suite 730 Philadelphia, PA 19110 / Tel. +1 610 304 2270 / [www.ttkusa.com](http://www.ttkusa.com) / [sales@ttkusa.com](mailto:sales@ttkusa.com)
- **TTK Headquarters** / 19, rue du Général Foy / 75008 Paris / France / T : +33.1.56.76.90.10 / F : +33.1.55.90.62.15 / [www.ttk.fr](http://www.ttk.fr) / [ventes@ttk.fr](mailto:ventes@ttk.fr)