

- ▶ Compatible with Locating Systems
- ▶ Acids, Corrosive Chemical Liquids and Water Detection
- ▶ Pre-connected in Standard Lengths
- ▶ Unique Dust-Proof Feature Efficiently Preventing False Alarms

## Description

The TTK sense cable FG-ACX detects the presence of acids, corrosive chemical liquids and water at any point along its length. The FG-ACX sense cable connects to TTK’s analog alarms (FG-ALS8, FG-ALS4 & FG-A), to respond immediately in the event of any leaks of liquids. The TTK Sense Cable FG-ACX is available in standard, pre-finished lengths of 9, 22 and 49 ft (3, 7 or 15 m) complete with connectors.

## Key Advantages

### A RELIABLE SENSE CABLE

The FG-ACX sense cable performs the following functions:

- Rapidly detects the leak of acids, corrosive chemical liquid and water along the entire length of the cable.
- Detects and locates leaks when connected to the Locating Alarm Units: FG-ALS8 and 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** triggered by **dust and all kinds of conductive residue** from the environment that has accumulated on the cable surface.

### A MODULAR SYSTEM

The FG-ACX cable ensures permanent protection in areas at risk.

FG-ACX is available in standard and pre-finished lengths of 9, 22 and 49 ft (3, 7 and 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 leak.

### EASY INSTALLATION

The male and female connectors at the end of each length of FG-ACX cable give immediate and dependable connection. Fixing clips are used to fasten the sense cables in the chosen areas.

### A TOUGH AND STURDY DESIGN

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

## Technical Data

<b>Compatibility</b>	Alarm units: FG-ALS8, FG-ALS4, 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>	Less than 10 seconds
<b>Sense Cable Material &amp; Nominal Diameter</b>	PVDF, 0.3 in (± 0.02 in) (7.5 mm (± 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</b>	1.68 oz / ft (2.5 kg / 100 m)
<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

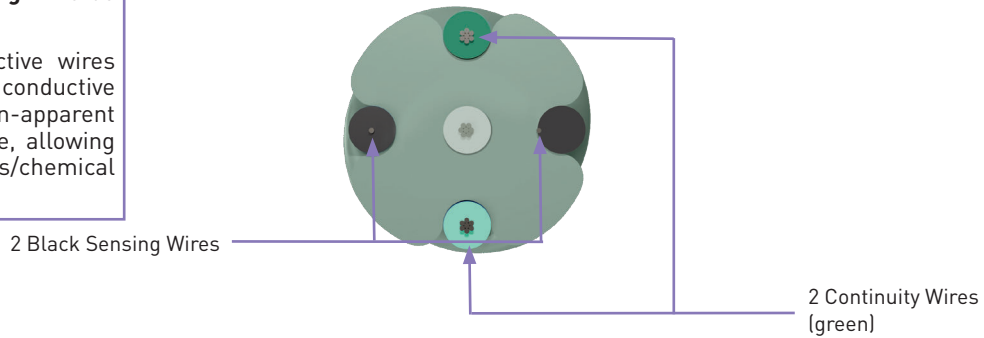
# Product Diagram

## FG-ACX Sense Cable Cutting View

### Unique Feature Efficiently Preventing False Alarms

- 2 black non-conductive wires with unique buried conductive constantan wires, non-apparent from the cable surface, allowing only ingress acids/chemical liquid/water.

2 Communication Wires and 2 Wires for Locating and Detection



### Male Connector Tip



### Female Connector Tip



Non-contractual images

## Chemical Resistance

In an aqueous environment, the cable's resistance to various products is categorized as follows:

- A: The cable is resistant but experiences slow corrosion over time.
- B: The cable corrodes rapidly when exposed to the liquid in question.

In all cases where a leak is detected, it is recommended to quickly identify and repair the source of the leak. Avoid leaving the cable in contact with the liquid. In most instances, the contaminated FG-ACS cable can be cleaned and reused.

This list is not exhaustive. For information regarding other chemicals, specific concentrations, or temperatures, please consult your TTK representative.

Acetic Acid	A	Hydrofluoric Acid	A	Sea Water	A
Ammonium Hydroxide	B	Liquid Chlorine	A	Silver Nitrate	A
Carbonic Acid	A	Nitric Acid	A	Sodium Hydroxide	B
Caustic Soda	A	Peracetic Acid	B	Sodium Hypochlorite	A
Formic Acid	A	Phosphoric Acid (95%)	A	Sodium Sulfate	A
Glucose	A	Potassium Hydroxide	B	Sulfuric Acid	A
Hydrochloric Acid	B	Salicylic Acid	A		

## Identification Codes

<b>FG-ACX3</b>	Analog Acids Sense Cable in 9 ft (3 m) with Connectors
<b>FG-ACX7</b>	Analog Acids Sense Cable in 22 ft (7 m) with Connectors
<b>FG-ACX15</b>	Analog Acids Sense Cable in 49 ft (15 m) with Connectors
<b>Accessories</b>	
<b>FG-CLC-PL</b>	Plenum Leader Cable in 11.5 ft (3.5 m)
<b>FG-TMX</b>	End Termination
<b>CF-EC100</b>	100 Hold-down Clips with Adhesive
<b>ES-EC</b>	40 Signal Tags

## Certification



**FG-ACX 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.**

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