

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

## Description

The TTK sense cable FG-ACX detects the presence of water, acid and corrosive chemical liquids 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.

## Features & Benefits

### A RELIABLE SENSE CABLE

The FG-ACX sense cable performs the following functions:

- Rapidly detects the leak of acid or corrosive chemical liquid along the length of the cable.
- Detects leaks the nearest metre when connected to the Locating Alarm Units: FG-ALS8 and FG-ALS4.
- 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-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-ACS sense cable is light, flexible and of an easily identifiable color. The FG-AC 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>Maximum Rated Temperature</b>	185°F (85°C)
<b>Minimum Bend Radius</b>	790 mils (20 mm)
<b>Weight</b>	0.27 oz/ft (25g/m)
<b>Sense Cable Diameter &amp; Material</b>	295 mils (7.5 mm) with PVDF jacket
<b>Four Sensor Wires Diameter &amp; Material</b>	47 mils (1.2 mm) with PVDF jacket
<b>Core Material</b>	PVDF cable
<b>Liquid Quantity to Active Alarm</b>	1.97" - 3.94" (50-100 mm) on the sense cable
<b>FG-ACX Color</b>	Green and white

# Product Diagram

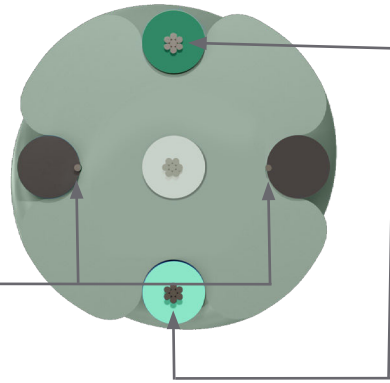
## FG-ACX sense cable in section with its four sensing wires

2 Communication Wires and 2 Wires for Locating and Detection

### Unique Dust-Proof 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 acid/chemical liquid/water.

2 Black Sensing Wires



2 Continuity Wires (green)



Male Connector Tip

Female Connector Tip

## Technical Information

In an aqueous environment, the resistance of the following products is as follows:

- A = The cable completely resists in the presence of the liquid considered.
- B = The cable resists, but undergoes a slow corrosion.
- C = The cable corrodes rapidly in the presence of the liquid considered.

In all cases where a leak is detected, it is advisable to identify the source of the leak and to repair the leak quickly. In most cases the contaminated FG-ACX cable can be washed and re-used.

This list is not exhaustive, for other chemicals, specific concentrations or temperatures please consult with 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-ACX15</b>	Analog acid sense cable in 15m (49 ft) length with connectors
<b>FG-ACX7</b>	Analog acid sense cable in 7m (22 ft) length with connectors
<b>FG-ACX3</b>	Analog acid sense cable in 3m (9 ft) length with connectors
<b>Accessories</b>	
<b>FG-CLC</b>	Leader cable in 11.5 ft (3.5 m) length
<b>FG-TMX</b>	End termination plug (for ECX, ACX sense cables)
<b>CF-EC100</b>	100 hold-down clips with cold adhesive glue
<b>ES-EC</b>	40 signal tags

## Certificate



FG-ACX sense cable is compliant to NFPA 262 (known also as UL910). NFPA: National Fire Protection Association

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