



- ▶ 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 analogue 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 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 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 colour. The FG-ACX sense cable is a non-absorbent design that **can be reused** after cleaning, reducing the maintenance costs.

Technical Data

Compatibility	Alarm units: FG-ALS8, FG-ALS4, FG-A
Reusability	Reusable, as long as the cable hasn't been damaged by prolonged immersion in liquid
Drying Time for Cable After Leak	Less than 10 seconds
Sense Cable Material & Nominal Diameter	PVDF, 7.5 mm (± 0.5 mm)
Sensor Wires Material & Diameter	PE, 1.2 mm
Core Material	PE
Sense Cable Weight (3, 7, 15 m)	0.23 kg, 0.52 kg, 0.9 kg
Minimum Bend Radius	20 mm
Sense Cable Colour	Green and light gray
Operating Temperature	-40° to 85°C
Ingress Protection	IP 67

Product Diagram

Unique Feature

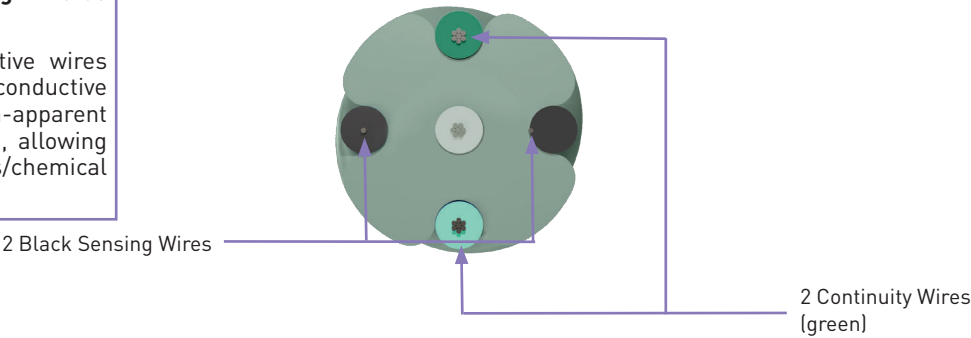
Dust-Proof

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.

FG-ACX Sense Cable Cutting View

2 Communication Wires and 2 Wires for Locating and Detection



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		

Non-contractual images

Identification Codes

FG-ACX3	Analog Acids Sense Cable in 3 m with Connectors
FG-ACX7	Analog Acids Sense Cable in 7 m with Connectors
FG-ACX15	Analog Acids Sense Cable in 15 m with Connectors
Accessories	
FG-CLC-PL	Plenum Leader Cable in 3.5 m
FG-TMX	End Termination
CF-EC100	100 Hold-down Clips with Adhesive
ES-EC	40 Signal Tags

Certification



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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