FG-ACX

Acid Sense Cable

TTK
LIQUID LEAK DETECTION SYSTEMS
CHEMICAL DIVISION

Product Datasheet

► Compatible with Locating Systems
► Detects Water, Acid and Corosive 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.
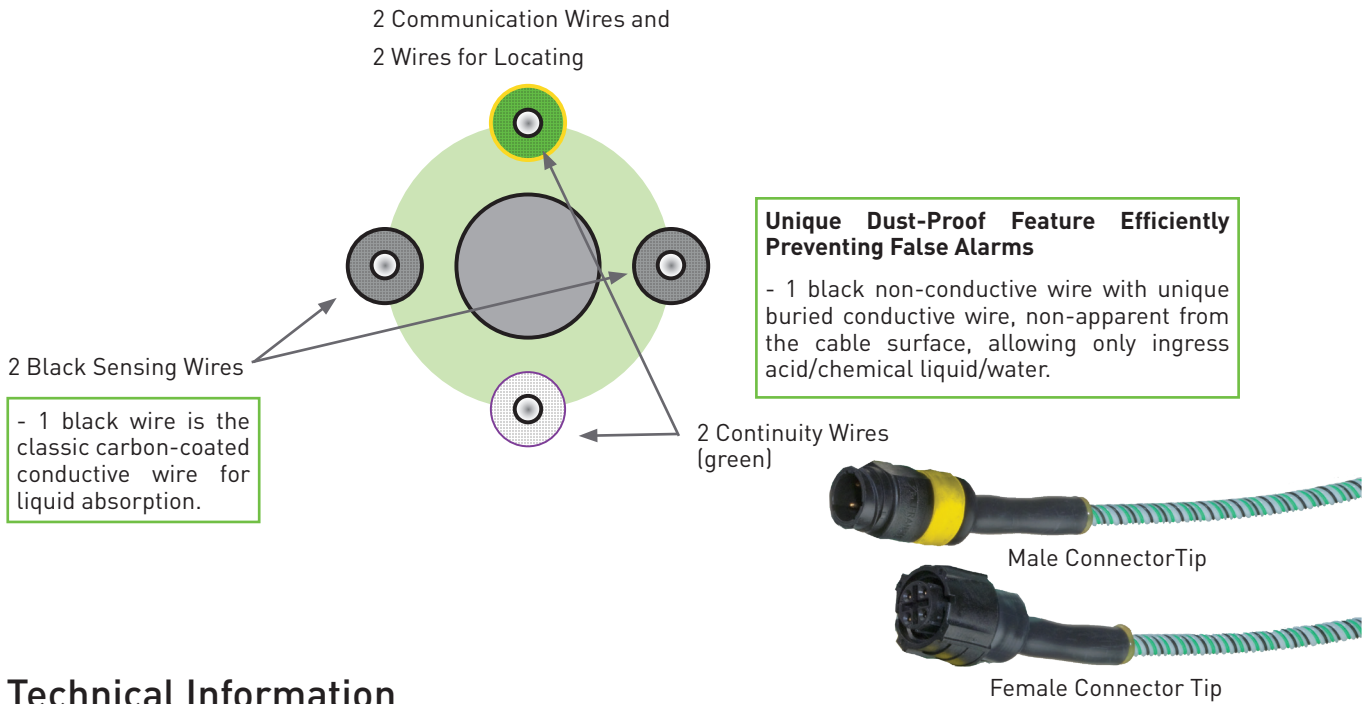
A TOUGH AND STURDY DESIGN
Small in diameter, the FG-ACS sense cable is light, flexible and of an easily identifiable color. The FG-AC sense cable is a non-absorbent design that **can be reused** after cleaning, reducing the maintenance costs.

Technical Data

Compatibility	Alarm units: FG-ALS8, FG-ALS4, FG-A
Maximum Rated Temperature	185°F (85°C)
Minimum Bend Radius	0.79 in (20 mm)
Weight	0.017 lb/ft (25g/m)
Sense Cable Diameter	0.29 in (7.5 mm) with PVDF jacket
Liquid Quantity to Active Alarm	1.97 - 3.94 in (50-100 mm) on the sense cable
FG-ACX Color	Green and white

Product Diagram

2 Communication Wires and
2 Wires for Locating

Unique Dust-Proof Feature Efficiently Preventing False Alarms

- 1 black non-conductive wire with unique buried conductive wire, non-apparent from the cable surface, allowing only ingress acid/chemical liquid/water.

2 Black Sensing Wires

- 1 black wire is the classic carbon-coated conductive wire for liquid absorption.

2 Continuity Wires (green)

Male ConnectorTip

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

FG-ACX15	Analog acid sense cable in 15m (49 ft) length with connectors
FG-ACX7	Analog acid sense cable in 7m (22 ft) length with connectors
FG-ACX3	Analog acid sense cable in 3m (9 ft) length with connectors
Accessories	
FG-CLC	Leader cable in 11.5 ft (3.5 m) length
FG-TMX	End termination plug (for ECX, ACX sense cables)
CF-EC100	100 hold-down clips with cold adhesive glue
ES-EC	40 signal tags

Certificate

CE