

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

Description

The TTK sense cable FG-ACS detects the presence of acids, corrosive chemical liquids 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.

Features & Benefits

A RELIABLE SENSE CABLE

The FG-ACS sense cable performs the following functions:

- Rapidly detects the leak of acids, corrosive chemical liquids 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 TTK 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 neutral 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, reducing the maintenance costs.

Technical Data

Compatibility	Locating units: FG-SYS, FG-NET, FG-BBOX (via Diversion Box: FG-DTCS), FG-ALS8, FG-ALS4 Non-locating unit: FG-A
Operating Temperature	-40° to 140°F [-40° to 60°C]
Minimum Bend Radius	790 mils (20 mm)
Weight	0.27 oz/ft (25g/m)
Sense Cable Diameter & Material	295 mils (7.5 mm) in PVDF
Four Sensor Wires Diameter & Material	47 mils (1.2 mm) in PVDF
Drying Time for Cable After Water Leak	10 seconds after drying the sense cable
FG-ACS Color	Green and light gray

Product Diagram

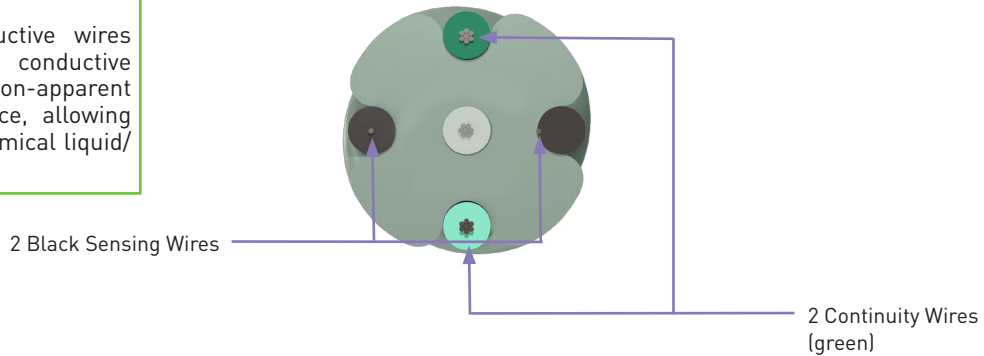
FG-ACS Sense Cable Cutting View

Unique Feature
Efficiently
Alarms

Dust-Proof
Preventing

- 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



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-ACS 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-ACS3	Acid Sense Cable in 9 ft (3m) sealed to 11.5 ft (3.5m) of Neutral Cable
FG-ACS7	Acid Sense Cable in 22 ft (7m) sealed to 11.5 ft (3.5m) of Neutral Cable
FG-ACS15	Acid Sense Cable in 49 ft (15m) sealed to 11.5 ft (3.5m) of Neutral Cable
Accessories:	
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.

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