

- ▶ 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 leaks to the nearest metre when connected to the 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.
- Non-absorbant design can be reset in seconds after removal of the leak.

### 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 3, 7 or 15 metres. 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 3.5 metres of TTK 8723 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.

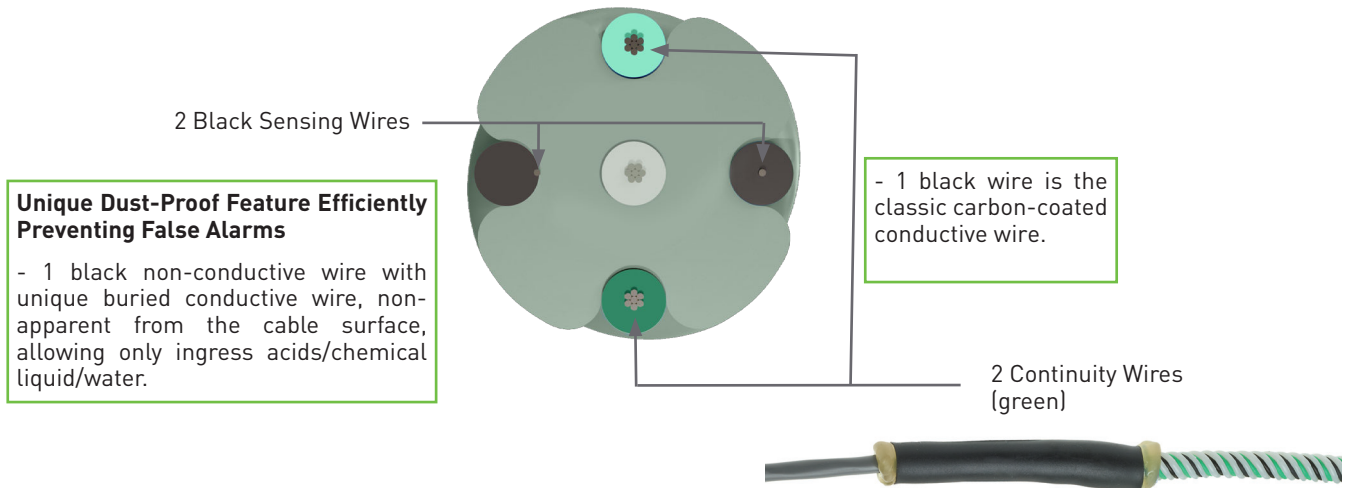
## Technical Data

<b>Compatibility</b>	Locating units: FG-SYS, FG-NET, FG-BBOX (via Diversion Box: FG-DTCS), FG-ALS8, FG-ALS4 Non-locating unit: FG-A
<b>Operating Temperature</b>	-40° to 60°C
<b>Minimum Bend Radius</b>	20 mm
<b>Weight</b>	25g per metre
<b>Sense Cable Diameter &amp; Material</b>	7.5 mm, PVDF jacket
<b>Four Sensor Wires Diameter &amp; Material</b>	1.2 mm, PE-based polymer
<b>Core Material</b>	PE-based polymer
<b>Drying Time for Cable After Water Leak</b>	10 seconds after drying the sense cable
<b>FG-ACS Colour</b>	Green and light grey

# Product Diagram

## FG-ACS Sense Cable Cutting View

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

<b>FG-ACS3</b>	Acid Sense Cable in 3m sealed to 3.5m of Neutral Cable
<b>FG-ACS7</b>	Acid Sense Cable in 7m sealed to 3.5m of Neutral Cable
<b>FG-ACS15</b>	Acid Sense Cable in 15m sealed to 3.5m of Neutral Cable
<b>Accessories:</b>	
<b>FG-DTCS</b>	Addressable Box
<b>CF-EC100</b>	100 Hold-down Clips With Adhesive
<b>ES-EC</b>	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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