

- ▶ Compatible with Locating Systems
- ▶ Detects Water, Acid and Corrosive Chemical Liquids
- ▶ Pre-connected in Standard Lengths
- ▶ Dust-proof Feature

## Description

The TTK sense cable FG-ACS detects the presence of water, acid and corrosive chemical liquids 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 respond immediately in the event of any leaks of acid and corrosive chemical liquids.

## Features & Benefits

### A RELIABLE SENSE CABLE

The FG-ACS sense cable performs the following functions:

- Rapidly detects the leak of water, acid and corrosive chemical liquids along the length of the cable.
- Detects leaks the nearest metre when connected to the Locating Alarm Unit: FG-NET, FG-SYS, FG-ALS8 or FG-ALS4.
- 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 acid 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.

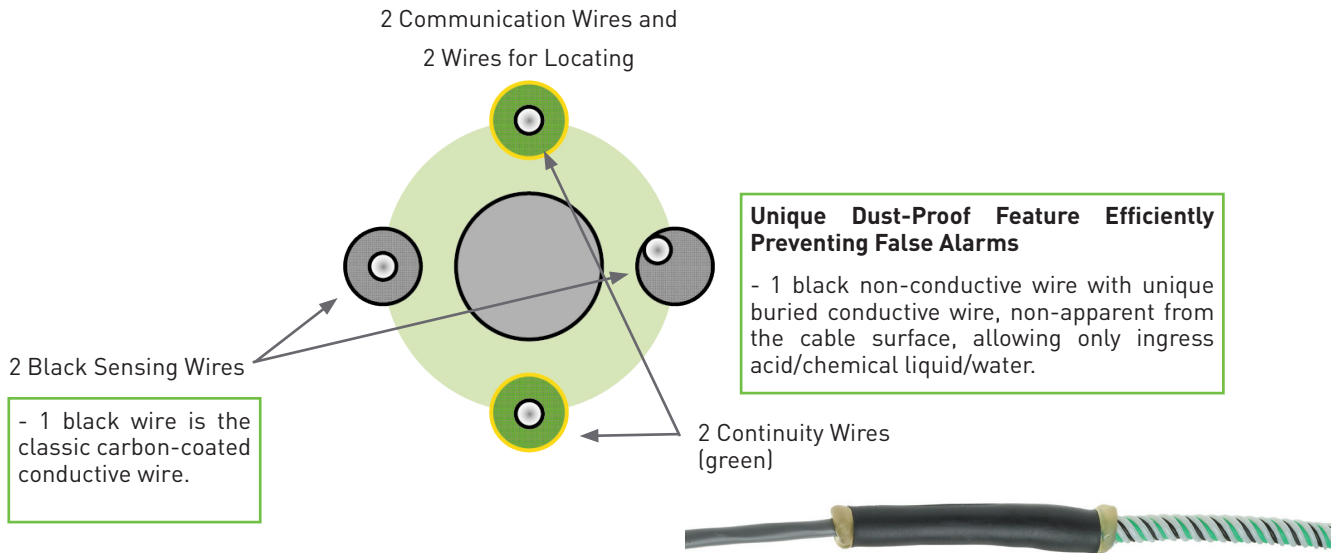
### A TOUGH AND STURDY DESIGN

Small in diameter, the FG-ACS sense cable is light, flexible and of an easily identifiable colour. Its helical jacket construction, compression connected on an extruded central core, reduces the risk of contamination and false alarms. It is made from the highest quality materials which are abrasive resistant in hostile environments.

## 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>Maximum Temperature Exposure</b>	85°C
<b>Weight</b>	25g per metre
<b>Sense Cable Diameter</b>	7.5 mm with PVDF jacket
<b>Liquid Quantity To Active Alarm</b>	50-100mm on the sense cable
<b>FG-ACS Colour</b>	Green

# Product Diagram



## Technical Information

A= The cable resists in the presence of the liquid considered.  
B= The cable resists, but undergoes a slow corrosion.

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	Hydrochloric acid	B	Glucose	A
Alcohols	A	Benzene	A	Hydrocarbons	A
Ammoniac	B	Chloroform	A	Sea water	A
Nitric acid	A	Gasoline	A	Sodium sulfate	A
Silver nitrate	A	Ethanol	A	Sodium hydroxide	B
Hydrogen peroxide	A	Hydrofluoric acid	A	Salicylic acid	A
Carbonic acid	A	Formic acid	A	Sulphuric acid	A
Ferrous chloride	A	Freon	A	Toluene	A
Calcium carbonate	A	Tar	A	Potassium hydroxide	B

## Identification Codes

<b>FG-ACS15</b>	Sector acid sense cable in 15m length
<b>FG-ACS7</b>	Sector acid sense cable in 7m length
<b>FG-ACS3</b>	Sector acid sense cable in 3m length
<b>Accessories:</b>	
<b>FG-DTCS</b>	Addressable box
<b>CF-EC100</b>	100 hold-down clips with cold adhesive glue
<b>ES-EC</b>	40 signal tags

## Certificate



All TTK sensing cables are designed as a part of the leak detection system thus included in the approval certification for TTK monitoring panels. FG-ACS sense cable is certified by NFPA 262 (known also as UL910). NFPA: National Fire Protection Association  
FG-SYS system meets the requirements of all European Standards in EN 50081 and EN 50082 EMC.  
FG-SYS system meets the TÜV requirements, according to IEC 61010-1/A2.  
FG-SYS system is UL Listed.

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- **TTK Headquarters** / 19, rue du Général Foy / 75008 Paris / France / T : +33.1.56.76.90.10 / F : +33.1.55.90.62.15 / [www.ttk.fr](http://www.ttk.fr) / [ventes@ttk.fr](mailto:ventes@ttk.fr)
- **TTK UK Ltd.** / 3 Luke Street London EC2A 4PX / United Kingdom / T : 0207 729 6002 / F : 0207 729 6003 / [www.ttkuk.com](http://www.ttkuk.com) / [sales@ttkuk.com](mailto:sales@ttkuk.com)
- **TTK Pte Ltd.** / #10-08, Shenton House, 3 Shenton Way / Singapore 068805 / T : +65-6220.2068 / M : +65.9271.6191 / F : +65-6220.2026 / [www.ttk.sg](http://www.ttk.sg) / [sales@ttk.sg](mailto:sales@ttk.sg)
- **TTK Asia Ltd.** / 2107-2108 Kai Tak Commercial Building / 317 Des Voeux Road Central / Hongkong / T : +852.2858.7128 / F : +852.2858.8428 / [www.ttkasia.com](http://www.ttkasia.com) / [info@ttkasia.com](mailto:info@ttkasia.com)
- **TTK Middle East FZCO** / Building 6EA, Office 510 PO Box 54925 / Dubai Airport Free Zone / UAE T : +971 4 70 17 553 / M : +971 50 259 66 29 / [www.ttkuk.com](http://www.ttkuk.com) / [cgalmiche@ttk.fr](mailto:cgalmiche@ttk.fr)
- **TTK Deutschland GmbH** / Berner Strasse 34 / 60437 Frankfurt / Deutschland / T : +49(0)69-95005630 / F : +49(0)69-95005640 / [www.ttk-gmbh.de](http://www.ttk-gmbh.de) / [vertrieb@ttk-gmbh.de](mailto:vertrieb@ttk-gmbh.de)
- **TTK North America Inc** / 1730 St Laurent Boulevard Suite 800 / Ottawa, ON, K1G 5L1 / Canada / T : +1 613 566 5968 / [www.ttkcanada.com](http://www.ttkcanada.com) / [info@ttkcanada.com](mailto:info@ttkcanada.com)
- **Thomas Sales & Marketing Inc. TTK Master Distributor For USA** / 7200 W 66th St / Bedford Park, IL 60638 / The United States / T : +1 630-518-4724 / [www.ttkusa.com](http://www.ttkusa.com) / [dmolk@ttkusa.com](mailto:dmolk@ttkusa.com)