



- ▶ Compatible with Locating Systems
- ▶ External Braid
- ▶ 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-ACSB detects the presence of acids, corrosive chemical liquids and water at any point along its length.
- The FG-ACSB 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 acids, corrosive chemical liquids and water.
- The FG-ACSB sense cable is supplied with an external PVDF based braided jacket and is specially designed for pipes solution. (This can be held in place using a cable tie, if required.)
- The FG-ACSB sense cable can be reused after cleaning. It is recommended to install FG-ACSB in a dry and clean environment for an efficient detection.

Features & Benefits

A RELIABLE SENSE CABLE

The FG-ACSB 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 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-ACSB cable ensures permanent protection in areas at risk. FG-ACSB 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 jumper cable and an end termination at each length of FG-ACSB 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-ACSB sense cable is light, flexible and of an easily identifiable color. The FG-ACSB sense cable is a non-absorbent design that **can be reused** after cleaning, reducing the maintenance costs. It also offers a short drying time.

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 185°F (-40° to 85°C)
Minimum Bend Radius	790 mils (20 mm)
Weight	0.97 oz/ft (90 g/m)
Breaking Strength for Sense Cable	Minimum 165.35 lb (75 kg)
Sense Cable Diameter & Material	295 mils (7.5 mm) in PVDF
Four Sensor Wires Diameter & Material	47 mils (1.2 mm) in PVDF
Core Material	PVDF
Drying Time for Cable After Water Leak	10 seconds after drying the sense cable
FG-ACSB External Braid Color	Dark green khaki

Product Diagram

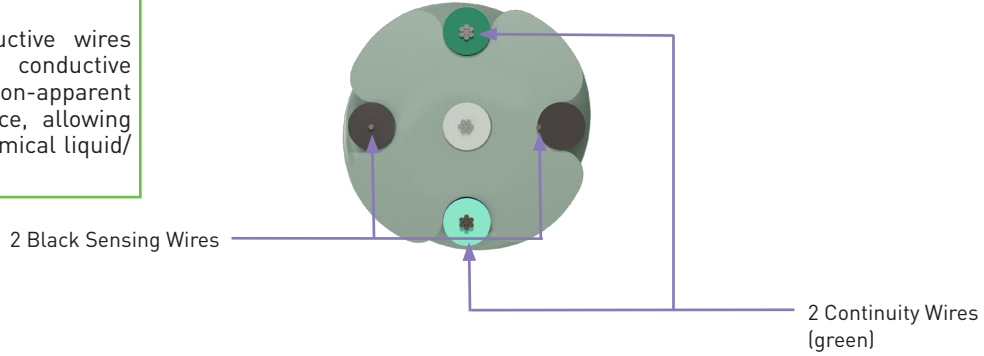
FG-ACSB Sense Cable Cutting View (without External Braid)

Unique Feature Efficiently Alarms

Dust-Proof 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.

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-ACSB 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-ACSB15	Sector Acids Sense Cable in 49 ft (15m) with External Braid
FG-ACSB7	Sector Acids Sense Cable in 22 ft (7m) with External Braid
FG-ACSB3	Sector Acids Sense Cable in 9 ft (3m) with External Braid
Accessories:	
FG-DTCS	Addressable Box
CF-EC100	100 Hold-Down Clips with Adhesive
ES-EC	40 Signal Tags

Certificate



FG-ACSB 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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