

- ▶ Digital Pin-Point Leak Location
- ▶ External Braid
- ▶ Acids, Corrosive Chemical Liquids and Water Detection
- ▶ Pre-connected in Standard Lengths
- ▶ Unique Dust-Proof Feature Efficiently Preventing False Alarms

Description

- The TTK digital sense cable FG-ACB detects and pin-points the location of water, acids and corrosive chemical liquids at any point along its length.
- The FG-ACB sense cable is designed for the FG-SYS or the FG-NET digital units to smartly respond to any leaks of liquids.
- The FG-ACB sense cable is installed in critical areas in order to provide permanent protection to limit the financial consequences of an undetected water and acids leak. The typical application are in laboratories, fab plants, semi-conductor plants, cleanrooms, etc.
- The FG-ACB 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-ACB sense cable can be reused after cleaning. It is recommended to install FG-ACB in a dry and clean environment for an efficient detection.

Features & Benefits

FEATURES

- Available in standard and pre-connected lengths of 9, 22 and 49 ft (3, 7 and 15 m). They can be interconnected to provide an expandable network of leak detection.
- Same function as FG-AC Digital Sense Cable, the FG-ACB sense cables contain an embedded microprocessor, it intelligently monitors the cable status, it provides continuous real-time communication to the TTK digital units.
- Each cable has a high visibility LED to provide quick green/red identification of the cable status:
 - Green LED: normal status, no alarm raised;
 - Red LED: leak detection on the cable;
 - LED off: cablebreak on this or any upstream cable.
- Small diameter, light, flexible and in an easily identifiable dark green khaki colour.
- Ingenious design: four sensing wires of helical construction,

compressed and connected on an extruded central core, **insensitive to dust contamination.**

- Fixing clips available to fasten the sense cables.

BENEFITS

- Detects and pin-points the location of water and acids leak to the nearest meter along the length of the cable.
- Detects and localizes cablebreak on the cable.
- Offers short drying time.
- The FG-ACB sense cable is a non-absorbent design that **can be reused** after cleaning, reducing the maintenance costs.
- **Efficiently prevents false alarms triggered by dust, condensation and metal parts**, thanks to the unique and patented cable structure.
- Easy installation with pre-finished male and female connectors.
- Flexible design: in both liner and sector mode (via FG-DTC box).

Technical Data

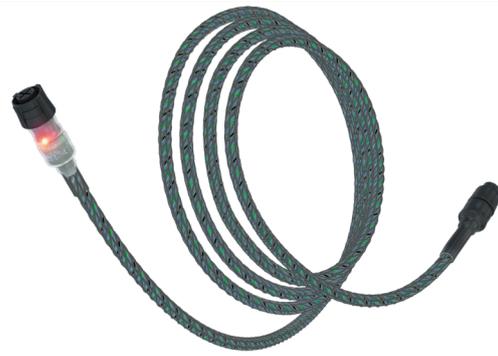
Compatibility	Digital units: FG-SYS; FG-NET; FG-BBOX Diversion box: FG-DTC
Operating Temperature	-40° to 140°F (-40° to 60°C)
Minimum Bend Radius	790 mils (20 mm)
Maximum Length of Digital Sense Cable per Unit	Up to 120 lengths of FG-ACB, connected to 3 circuits
Connector Type	FCI-Clipper
Weight	0.97 oz/ft (90 g/m)
Sense Cable Diameter & Material	310 mils (8 mm) (without connector) in PVDF
Four Sensor Wires Diameter & Material	47 mils (1.2 mm) in PVDF
Core Material	Plenum cable
Drying Time for Cable After Water Leak	10 seconds after drying the sense cable
FG-ACB External Braid Color	Dark green khaki

Product Diagram

Embedded Microprocessor in Female Connector:



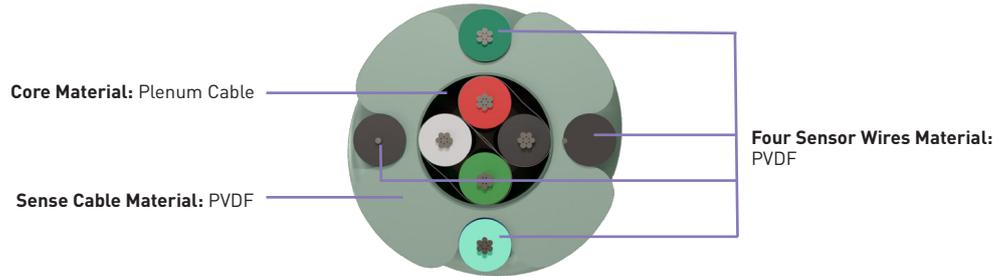
Green LED: Normal Status
 Red LED: Leak Detected on the Cable



The ingenious cable structure allows the cable to:

- sense only ingress acids/ water,
- and not to be disturbed by the presence of dust and all kinds of conductive residue from the environment that has accumulated on the cable surface; thus, efficiently preventing contamination alarms.

Cable Cutting View (without External Braid)



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-ACB 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-ACB15	Addressable Acids Sense Cable in 49 ft (15m) with External Braid
FG-ACB7	Addressable Acids Sense Cable in 22 ft (7m) with External Braid
FG-ACB3	Addressable Acids Sense Cable in 9 ft (3m) with External Braid
Accessories	
FG-CLC-PL	Plenum Leader Cable 11.5 ft (3.5 m)
FG-NC(x)-PL	Plenum Jumper Cables in Variety of Lengths (x): 9, 22, 49 or 98 ft (3, 7, 15 or 30 m)
FG-TMC	End Termination
FG-DTC	Digital Diversion Box
CF-EC100	100 Hold-Down Clips with Adhesive
ES-EC	40 Signal Tags

Certificates



FG-ACB 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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