



- ▶ Digital Pin-Point Leak Location
- ▶ Embedded Microprocessor
- ▶ Water and Base Liquids Detection
- ▶ Made in Low Smoke Zero Halogen Material

Description

The TTK digital sense cable FG-EC detects and pin-points the location of water and base liquid leaks at any point along its length. The FG-EC sense cable is designed for FG-SYS, FG-NET or FG-BBOX digital units to respond intelligently in the event of any liquid leaks. Each FG-EC sense cable is made with special **Low Smoke Zero Halogen materials**, emitting limited smoke and no halogen when exposed to high sources of heat.

Key Advantages

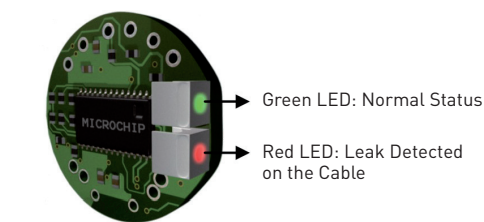
- Available in standard and pre-connected lengths of 9, 22 and 49 ft (3, 7 and 15 m). They can be interconnected to provide an expandable network of leak detection.
- The cable contains an embedded microprocessor, it intelligently monitors the cable status, it provides continuous real-time communication 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 color.
- Ingenious design: four conducted wires of helical construction, compressed and connected on an extruded central core, insensitive to dust and metal particles contamination, preventing false alarms.
- Fixing clips available to fasten the sense cables.
- A set of TTK BUS 8723 jumper cables and connection accessories gives continuity to each circuit.
- Detects and pin-points the location of a water/base leak to the nearest foot along the length of the cable.
- Detects and localizes cablebreak on the cable.
- Manufactured with the low smoke zero halogen (LSZH or LS0H) materials, FG-EC cable emits, when burned, a less optically dense smoke that releases at a lower rate than a non-LSZH cable.
- The FG-EC sense cable is a non-absorbent design that can be reused after leaks, reducing the maintenance costs.
- Easy installation with pre-finished male and female connectors.
- The typical applications are data centers, trading floors, high value and mission critical infrastructure.

Technical Data

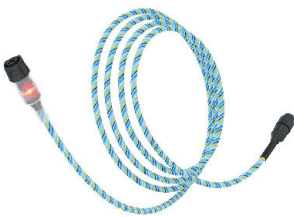
Compatibility	Digital units: FG-SYS; FG-NET; FG-BBOX Diversión box: FG-DTC
Reusability	Reusable, as long as the cable hasn't been damaged by prolonged immersion in liquid
Drying Time for Cable After Leak	Less than 10 seconds
Sense Cable Nominal Diameter	0.3 ± 0.02 in (7.5 ± 0.5 mm)
Central Core Material	LSF (Low Smoke and Fume)
Minimum Bend Radius	0.79 in (20 mm)
Color	Light blue
Operating Temperature	5°F à 131°F (-15°C to +55°C) [Note: The sense cable itself is rated for temperatures up to 185°F (85°C.)]
Connector Ingress Protection	IP 67

Product Diagram

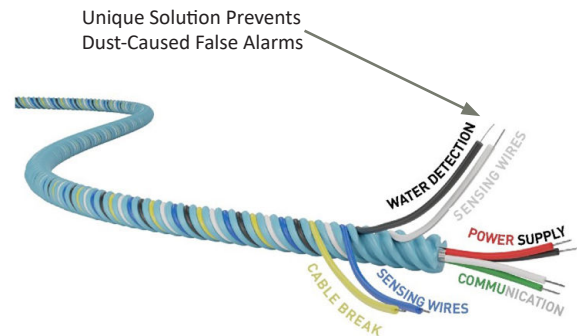
Embedded Microprocessor in Female Connector:



FG-EC Sense Cable

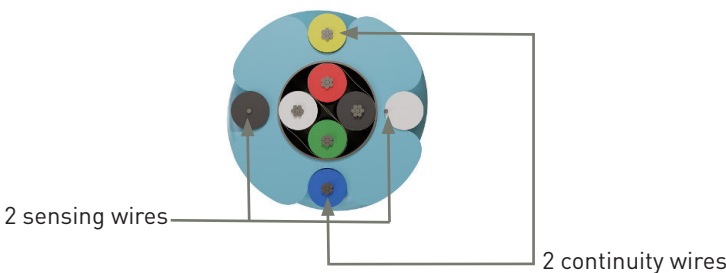


Unique Solution Prevents Dust-Caused False Alarms



FG-EC Sense Cable Cutting View

2 communication wires and 2 detection and location wires



Non-contractual images

Identification Codes

FG-EC3	Addressable Water Sense Cable in 9 ft (3m), LSZH
FG-EC7	Addressable Water Sense Cable in 22 ft (7m), LSZH
FG-EC15	Addressable Water Sense Cable in 49 ft (15m), LSZH
Accessories:	
FG-CLC	Leader Cable, on TTK Bus 8723
FG-TMC	Digital End Plug for Water & Acids Cables
FG-NC'N'	TTK Bus 8723 Neutral Cable 'N' (3, 33, 50 ft) (1, 10, 15 m) with Connectors
CF-EC100	100 Hold-down Clips with Adhesive for Water & Acids Cables
ES-EC	40 Tags for Water & Acids Cables

Certification



FG-EC meets the Low Smoke Zero Halogen requirement, test performed by LCIE. Test report N° 92634-584827Cr2009/07/20.
FG-EC as a part of FG-NET system, meets the requirements of FM. Original Approval Job Identification: PR456641.
FG-EC as a part of FG-SYS system, meets the requirements of all European Standards in EN 50081 and EN 50082 EMC.

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