



- ▶ Digital Pin-Point Leak Location
- ▶ Embedded Microprocessor
- ▶ LED Status Indicator
- ▶ Detects Water and Base Liquids
- ▶ Made in Low Smoke Zero Halogen Material
- ▶ Pre-connected in Standard Lengths

## 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.

## 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.
- 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 light blue 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.
- Minimum bend radius for FG-EC sensing cable: 1.38' or 35mm.

### BENEFITS

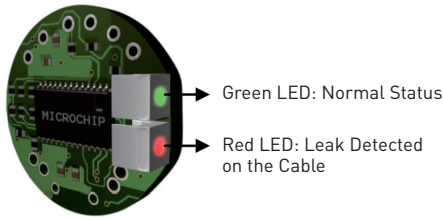
- Detects and pin-points the location of a water/base leak to the nearest foot along the length of the cable.
- Detects and localizes cablebreak on the cable.
- Manufactured with the low smoke zero halogen (LSZH or LS0H) materials, FG-EC cable emits, when burned, a less optically dense smoke that releases at a lower rate than a non-LSZH cable.
- Short drying time.
- 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.
- Flexible design: in both liner and sector mode (via FG-DTC box).
- The typical applications are data centers, trading floors, high value and mission critical infrastructure.

## Technical Data

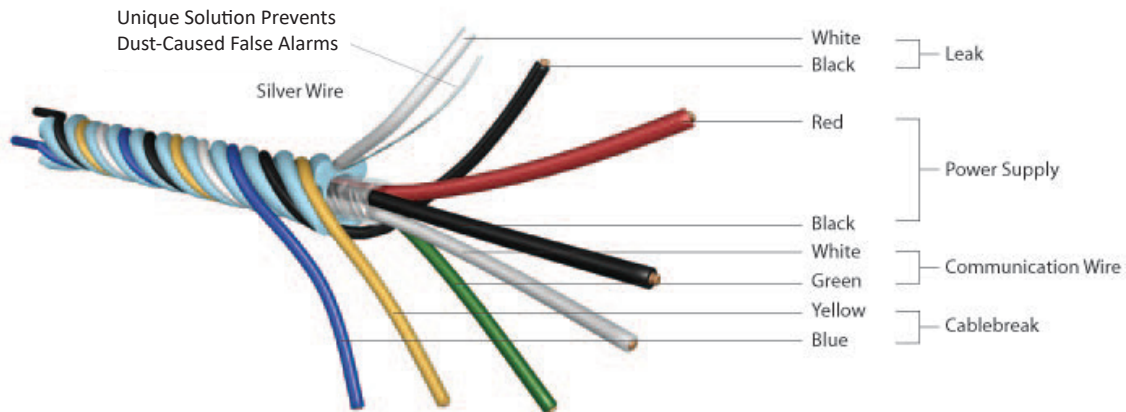
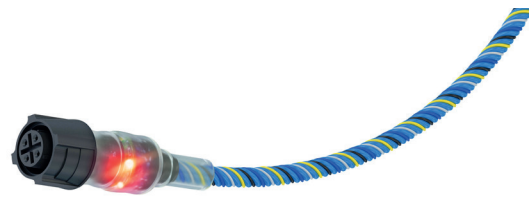
<b>Compatibility</b>	Digital units: FG-SYS; FG-NET; FG-BBOX Diversion box: FG-DTC
<b>Operating Temperature</b>	-40° to 140°F [-40° to 60°C]
<b>Minimum Bend Radius</b>	0.79 in (20 mm)
<b>Maximum Length of Digital Sense Cable per Unit</b>	Up to 120 lengths of FG-EC, connected to 3 circuits
<b>Connector Type</b>	FCI-Clipper
<b>Weight</b>	0.0168 lb/ft (25 g/m)
<b>Min. bending radius</b>	1.38" (35mm)
<b>Breaking Strength for Sense Cable</b>	Minimum 165.35 lb (75 kg)
<b>Sense Cable Diameter</b>	0.3 in (7.5 mm) with jacket
<b>Four Sensor Wires Diameter</b>	0.05 in (1.2 mm) with jacket
<b>FG-EC Color</b>	Light blue

# Product Diagram

## Embedded Microprocessor in Female Connector:



## Female Connector with Addressable Electronic Module:



# Identification Codes

<b>FG-EC15</b>	Addressable Water Sensing Cable in 15m (49 ft) In Low Smoke Zero Halogen Material
<b>FG-EC7</b>	Addressable Water Sensing Cable in 7m (22 ft) In Low Smoke Zero Halogen Material
<b>FG-EC3</b>	Addressable Water Sensing Cable in 3m (9 ft) In Low Smoke Zero Halogen Material
<b>Accessories</b>	
<b>FG-NC(x)</b>	'TTK Bus 8723' Neutral Cable X in (m) With Connectors
<b>FG-TMC</b>	Digital End Plug for FG-EC/AC Cables
<b>FG-CLC</b>	Leader Cable 137.8 in (3.5 m), on 'TTK Bus 8723'
<b>FG-DTC</b>	Diversion Box for 'TTK Bus 8723'
<b>FG-DTCS</b>	Addressable Box for one Water or Acids Cable, on 'TTK Bus 8723' (Sector Mode)
<b>CF-EC100</b>	100 Hold-down Clips with adhesive for Water & Acids Cables
<b>ES-EC</b>	40 Tags for Water & Acids Cables

# Certificates



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

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