



- ▶ Digital Pin-Point Leak Location
- ▶ Embedded Microprocessor
- ▶ LED Status Indicator
- ▶ Detects Water and Base Liquids
- ▶ Pre-connected in Standard Lengths

## Description

The TTK digital sense cable FG-EC detects and pin-points the location of water and base liquids leaks at any point along its length. The FG-EC sense cable is designed for the FG-SYS or the FG-NET digital units to respond intelligently in the event of any leaks of liquids. The FG-EC sense cable is installed in critical areas in order to provide permanent protection to limit the financial consequences of an undetected leak.

The typical applications are data centres, trading floors, high value and mission critical infrastructure.

## Features & Benefits

### FEATURES

- Available in standard and pre-connected lengths of 3, 7 and 15 metres. They can be interconnected to provide an expandable network of leak detection.
- Each FG-EC 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 light blue colour.
- Ingenious design: 4 PEHD conducted helical construction - compression-connected on an extruded central core, insensitive to dust and metal particles contamination, prevents false alarms.

- Fixing clips available to fasten the sense cables.
- A set of Belden 8723 jumper cables and connection accessories gives continuity to each circuit.

### BENEFITS

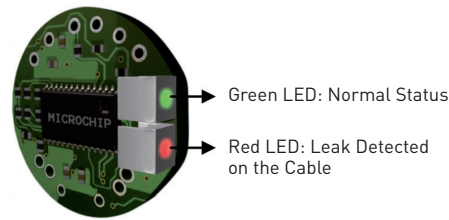
- Detects and pin-points the location of a water/base leak to the nearest metre along the length of the cable.
- Detects and localizes cablebreak on the cable.
- Short drying time.
- The FG-EC sense cable is a non-absorbent design that can be reused after leaks, reducing the maintenance costs.
- Easy installation with pre-finished male and female connectors.
- Flexible design: in both liner and sector mode (via FG-DTC box).

## Technical Data

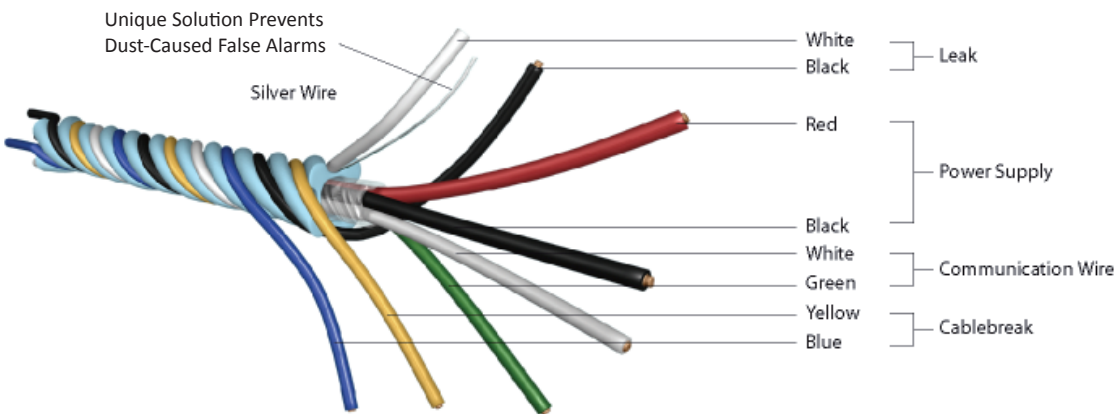
<b>Compatibility</b>	Digital units: FG-SYS; FG-NET; FG-BBOX Diverson box: FG-DTC
<b>Maximum Rated Temperature</b>	65°C
<b>Maximum Length of Digital Sense Cable per Unit</b>	Up to 120 lengths of FG-EC, connected to 3 circuits
<b>Connector Type</b>	FCI-Clipper
<b>Weight</b>	25g per metre without connector
<b>Sense Cable Diameter</b>	7,5 mm with PEHD jacket (without connector)
<b>Four Sensor Wires Diameter</b>	1,2 mm with PEHD jacket
<b>Core Material</b>	Flame-retardant low-smoke PEHD-based polymer
<b>Liquid Quantity to Active Alarm</b>	50-100mm on the sense cable
<b>Drying Time</b>	10 seconds after drying the sense cable
<b>Breaking Strength for Sense Cable</b>	Minimum 75 kg
<b>FG-EC Colour</b>	Light blue

# Product Diagram

## Embedded Microprocessor in Female Connector:



## Female Connector with Addressable Electronic Module:



# Identification Codes

FG-EC15	Addressable Water Sensing Cable in 15m With Connectors
FG-EC7	Addressable Water Sensing Cable in 7m With Connectors
FG-EC3	Addressable Water Sensing Cable in 3m With Connectors
Accessories	
FG-NC(x)	'TTK Bus 8723' Neutral Cable Xm With Connectors
FG-TMC	Digital End Plug for FG-EC/AC Cables
FG-CLC	Leader Cable 3.5 m with Female Connector
FG-DTC	Diversion Box for 'TTK Bus 8723'
CF-EC100	100 Hold-down Clips with adhesive for Water & Acids Cables

# Certificates



FG-EC 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.  
FG-SYS system is UL Listed.

This brochure has been carefully prepared to ensure technical accuracy but is only intended for promotional use. TTK cannot guarantee that the information contained herein contains no errors or omissions, and hence does not accept responsibility related to the use of its equipment. TTK maintain its obligations set forth in the Standard Terms and Conditions of Sale and will not, under any circumstances, assume liability for any incidental damages, indirect or consequential, arising from the sale, resale, use or misuse of this product. The purchaser(s) accept their responsibility as the sole judge(s) of the adaptability of the product for the intended use.

FG-NET, FG-SYS and TOPSurveillance are trademarks of TTK S.A.S. © TTK 2010

- **TTK Headquarters** / 4 rue du Chemin Vert, 92110 Clichy, 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 : +44 207 729 6002 / F : +44 207 729 6003 / [www.ttkuk.com](http://www.ttkuk.com) / [sales@ttkuk.com](mailto:sales@ttkuk.com)
- **TTK Pte Ltd.** / #09-05, 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) / [info@ttk.sg](mailto:info@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.fr/de/](http://www.ttk.fr/de/) / [vertrieb@ttk-gmbh.de](mailto:vertrieb@ttk-gmbh.de)
- **TTK North America Inc** / HazloLaw Professional Corporation, 449 Sussex Drive Suite 200, Ottawa ON K1N 6Z4 / [www.ttkcanada.com](http://www.ttkcanada.com)