



- ▶ 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 liquids 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 leaks of liquids. Each FG-EC sense cable is made with special **Low Smoke Zero Halogen materials**, it emits limited smoke and no halogen when exposed to high sources of heat.

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.
- 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 colour.
- 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.

BENEFITS

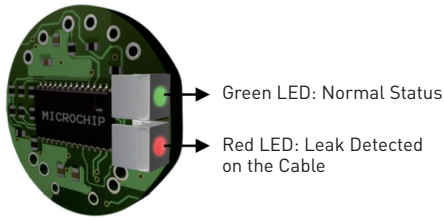
- Detects and pin-points the location of a water/base leak to the nearest metre along the length of the cable.
- Detects and localizes cablebreak on the cable.
- Manufactured with the low smoke zero halogen (LSZH or LSOH) materials, FG-EC cable emits, when burned, a less optically dense smoke that releases 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 centres, trading floors, high value and mission critical infrastructure.

Technical Data

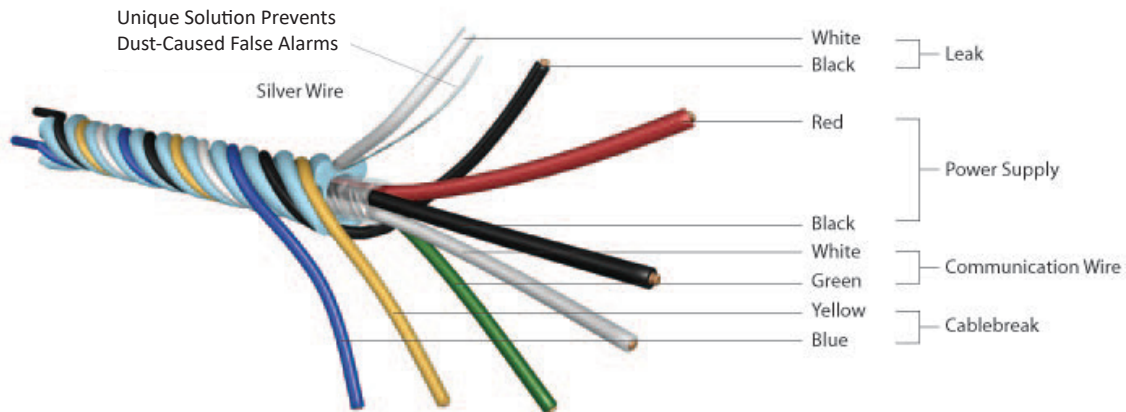
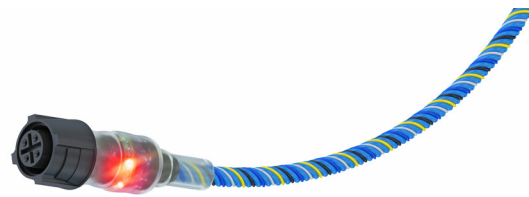
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|---|---|
| Compatibility | Digital units: FG-SYS; FG-NET; FG-BBOX Diversion box: FG-DTC |
| Maximum Operating Temperature | 65°C |
| Maximum Length of Digital Sense Cable per Unit | Up to 120 lengths of FG-EC, connected to 3 circuits |
| Connector Type | FCI-Clipper |
| Weight | 25g per metre without connector |
| Sense Cable Diameter | 7,5 mm with jacket (without connector) |
| Four Sensor Wires Diameter | 1,2 mm with jacket |
| Breaking Strength for Sense Cable | Minimum 75 kg |
| FG-EC Colour | 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 In Low Smoke Zero Halogen Material |
| FG-EC7 | Addressable Water Sensing Cable in 7m In Low Smoke Zero Halogen Material |
| FG-EC3 | Addressable Water Sensing Cable in 3m In Low Smoke Zero Halogen Material |
| 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 3,5m, on 'TTK Bus 8723' |
| FG-DTC | Diversion Box for 'TTK Bus 8723' |
| FG-DTCS | Addressable Box for one Water or Acids Cable, on 'TTK Bus 8723' (Sector Mode) |
| CF-EC100 | 100 Hold-down Clips with adhesive for Water & Acids Cables |
| ES-EC | 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 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.
 FG-SYS system meets the TÜV requirements, according to IEC 61010-1/A2.

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