



- ▶ 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

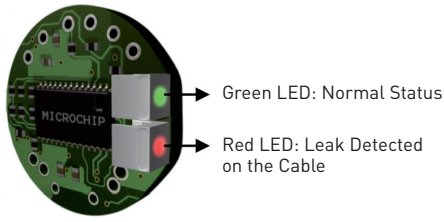
- Detects and pin-points the location of a water/base leak to the nearest metre along the length of the cable.
- Detects and localizes cablebreak on the cable.
- Short drying time.
- The FG-EC sense cable is a non-absorbent design that can be reused after leaks, reducing the maintenance costs.
- Easy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

Technical Data

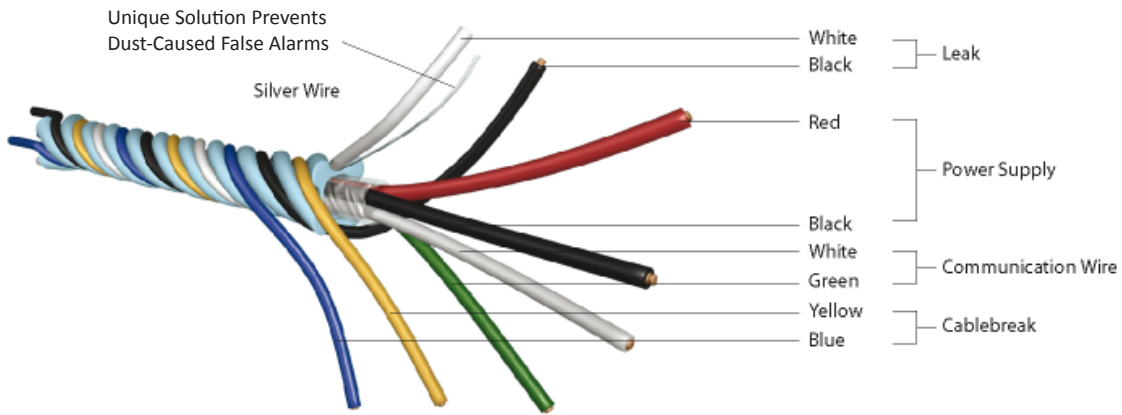
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| Compatibility | Digital units: FG-SYS E & F; FG-NET Diversion box: FG-DTC |
| Maximum Rated Temperature | 65°C |
| Maximum Length of Digital Sense Cable per Unit | Up to 120 lengths of FG-EC, connected to 3 circuits |
| Connector Type | FCI-Clipper |
| Weight | 25g per metre without connector |
| Sense Cable Diameter | 7,5 mm with PEHD jacket (without connector) |
| Four Sensor Wires Diameter | 1,2 mm with PEHD jacket |
| Core Material | Flame-retardant low-smoke PEHD-based polymer |
| Liquid Quantity to Active Alarm | 50-100mm on the sense cable |
| Drying Time | 10 seconds after drying the sense cable |
| 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 | Digital water and base sense cable in 15m length with connectors |
| FG-EC7 | Digital water and base sense cable in 7m length with connectors |
| FG-EC3 | Digital water and base sense cable in 3m length with connectors |
| Accessories | |
| FG-NC(x) | Leader cable 3.5 m with female connector |
| FG-TMC | Modular end termination plug |
| FG-DTC | Diversion box |
| CFC100 | 100 hold-down clips with cold adhesive glue |
| ES40 | 40 signal tags |

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.

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