

- ▶ 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

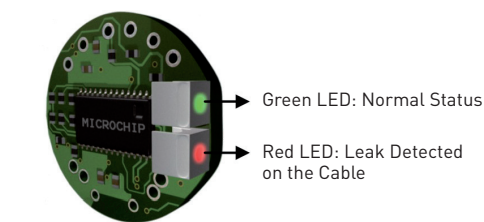
- Available in standard and pre-connected lengths of 3, 7 and 15 m. They can be interconnected to provide an expandable network of leak detection.
- The cable contains an embedded microprocessor, it intelligently monitors the cable status, it provides continuous real-time communication to the TTK digital 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

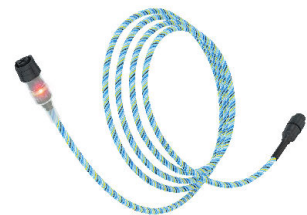
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|---|---|
| Compatibility | Digital units: FG-SYS; FG-NET; FG-BBOX Diverson box: FG-DTC |
| Reusability | Reusable, as long as the cable hasn't been damaged by prolonged immersion in liquid |
| Drying Time for Cable After Leak | Less than 10 seconds |
| Sense Cable Nominal Diameter | 7.5 (± 0.5 mm) |
| Central Core Material | LSF (Low Smoke and Fume) |
| Sense Cable Weight (3, 7, 15 m) | 0.3 kg, 0.5 kg, 1.0 kg |
| Minimum Bend Radius | 20 mm |
| Colour | Light blue |
| Operating Temperature | -15°C to +55°C (Note: The sense cable itself is rated for temperatures up to +85°C.) |
| Connector Ingress Protection | IP 67 |

Product Diagram

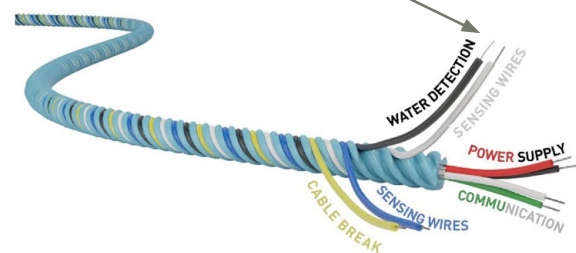
Embedded Microprocessor in Female Connector:



FG-EC Sense Cable

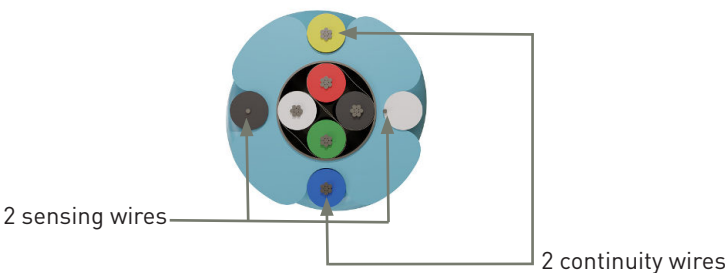


Unique Solution Prevents Dust-Caused False Alarms



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 3m, LSZH |
| FG-EC7 | Addressable Water Sense Cable in 7m, LSZH |
| FG-EC15 | Addressable Water Sense Cable in 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' (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 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.

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