



- ▶ Digital Pin-Point Leak Location
- ▶ Equipped with External Braid
- ▶ Embedded Microprocessor
- ▶ Water and Base Liquids Detection
- ▶ Designed for Suspended Pipe Solution

Description

The TTK digital sense cable FG-ECB detects and pinpoints the location of water and base liquid leaks at any point along its length. It is designed to operate with the FG-SYS, FG-NET, or FG-BBOX digital units, enabling intelligent response in the event of a leak. The FG-ECB sense cable is supplied with an external polyethylene-based braided jacket and is specifically designed for pipe applications. (It can be secured in place using a cable tie, if required.)

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.
- Performing the same function as the FG-EC digital sense cable, the FG-ECB sense cables contain an embedded microprocessor. They intelligently monitor the cable status and provide 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: cable break on this or any upstream cable.
- Ingenious design: external polyethylene based braided jacket and 4 PEHD conducted helical construction - connected on an extruded central core. It is insensitive to dust and metal particle contamination, preventing false alarms.
- A set of TTK bus 8723 jumper cables and connection accessories gives continuity to each circuit.
- Detects and pinpoints the location of a water or base leak to the nearest metre along the length of the cable.
- Detects and localizes cablebreak on the cable.
- The FG-ECB sense cable is a non-absorbent design that can be reused after leaks. Cable drying is easy.
- An external polyethylene based braided jacket keeps water around the cable thus assures an efficient detection.
- Easy installation with pre-finished male and female connectors. FG-ECB is to install under the suspended pipes, attached to the underside of the pipes. No drip tray is needed.
- Flexible design: supports both linear and sector modes (via FG-DTC box).

Technical Data

Compatibility	Digital units: FG-SYS; FG-NET; FG-BBOX Diversion 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	30 seconds
Sense Cable Nominal Diameter	7 mm (± 0.5mm) without braid, 10 mm (±0.5mm) with braid
Central Core Material	LSF (Low Smoke and Fume)
Minimum Bend Radius	20 mm
Braid Colour	White
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

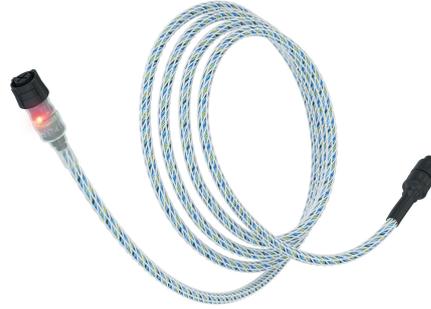
Product View

Embedded Microprocessor in Female Connector:



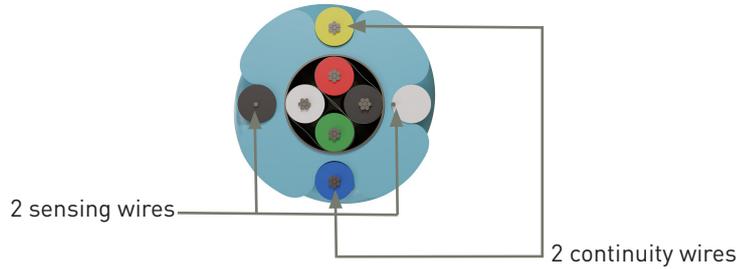
Green LED: Normal Status
 Red LED: Leak Detected on the Cable

FG-ECB Sense Cable



FG-ECB Sense Cable Cutting View (Without External Braid)

2 communication wires and 2 detection and location wires



Non-contractual images

Identification Codes

FG-ECB3	Braided Addressable Water Sense Cable in 3 m with Connectors
FG-ECB7	Braided Addressable Water Sense Cable in 7 m with Connectors
FG-ECB15	Braided Addressable Water Sense Cable in 15 m with Connectors
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



All TTK sense cables are designed as a part of the leak detection system thus included in the approval certification for TTK monitoring panels. FG-NET and FG-SYS systems meet the requirements of all European Standards in EN 50081 and EN 50082 EMC. FG-NET and FG-SYS systems are UL Listed.

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