

## FG-EC

### Digital Water And Base Liquids Sense Cable

Product Datasheet

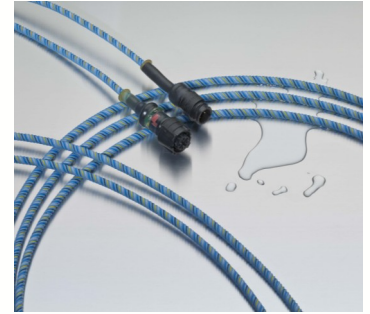
#### General

The FG-EC digital water sense cable detects and pin-point localizes the presence of water and base liquids along the entire length.

FG-EC is designed to be connected to either the FG-SYS or the FG-NET digital unit.

FG-EC sense cable is used to install in areas at risk in order to provide permanent protection to limit the financial consequences of an undetected leak.

FG-EC sense cable is made in tested material which is abrasive-resistant. It is still recommended to install FG-EC in dry and clean environment for an efficient detection and long life time of the product.



#### Features & Benefits

##### Features

- Available in standard lengths of 3, 7 and 15 metres.
- Microchip embedded allows an independent digital transmission to the digital unit.
- Flashing LED on microchip permits quick identification of the cable status:
  - Green LED: normal status, no default
  - Red LED: leak detection on the cable
  - LED off: cablebreak on this or on any preceding cable
- Ingenious design: 4 PEHD conducted helical construction - compression-connected on an extruded central core, reduce dust and metal parcels contamination, prevent false alarm.
- Small diameter, light, flexible and in an easily identifiable light blue colour.
- Special fixing clips available to fasten the sense cables.

- A set of Belden 8723 jumper cables and connection accessories gives continuity to each circuit.
- FG-EC can also be manufactured in low smoke and zero halogen (LSZH) material for smoke reduction and low toxicity.

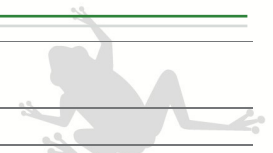
##### Benefits

- Detects and pin-point localizes the leak of any liquid to the nearest metre along the length of the cable.
- Detects and localizes cablebreak on the cable.
- Short drying time.
- Reused after leaks, long product life.
- Easy installation with pre-finished male and female connectors.
- Flexible design: in both liner and sector mode (via FG-DTC box).



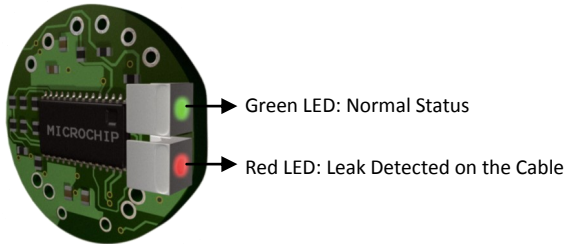
#### Technical Data

<b>Compatibility:</b>	Digital Units: FG-SYS E & F; FG-NET Diversion Box: FG-DTC
<b>Maximum Temperature Exposure:</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>Tap Water 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



## Cutting Charts

### Microchip Embedded in Female Connector

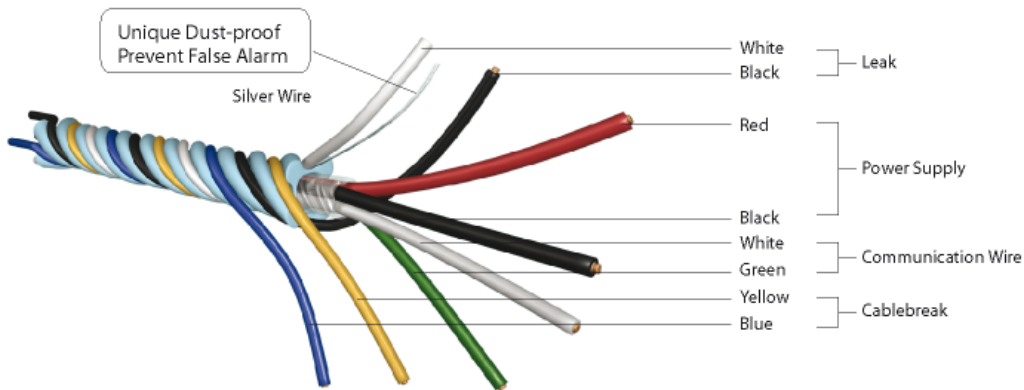


(Photo not to scale)

### Female Connector With Addressable Electronic Module



### Heat Shrinkable Tube with Individual Microchip and LED's



## Identification Codes

<b>FG-EC15</b>	Digital Water Sense Cable in 15m Length with Connectors
<b>FG-EC7</b>	Digital Water Sense Cable in 7m Length with Connectors
<b>FG-EC3</b>	Digital Water Sense Cable in 3m Length with Connectors
<i>Accessories:</i>	
<b>FG-NC(x)</b>	Belden Jumper cables in variety of Lengths (x): 3, 7, or 15 metres
<b>FG-TMC</b>	Modular End Termination Plug
<b>FG-DTC</b>	Diversion Box
<b>CFC100</b>	100 Hold-down Clips with Cold Adhesive Glue
<b>ES40</b>	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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