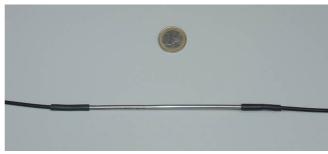# Temperature Chain TC-02

Description

The fibre optic Temperature Chain TC-02 is a flexible and ruggedized cable containing several temperature sensors in series. Each temperature sensor is contained in a separate stainless steel housing. All sensors are in the same optical line and the Chain has a connector at both ends in order to make series configurations possible. The Temperature Chain can be entirely configured according to the customer needs i.e. the number of temperature sensors and the intermediate sensor distances can be specified.

Features

- Distributed temperature sensing
- Fully customisable to the customer needs
- Watertight and ruggedized housing, applicable in harsh environments

Applications

Distributed temperature sensing for various purposes. Applicable both indoors as well as outdoors.

Standard specifications

Parameter	Value
Temperature resolution[1]	0.1 °C
Temperature precision[1]	0.2 °C
Temperature range[2,3]	-20 °C to +80 °C
Sensor length	15 cm
Housing diameter	4 mm
Housing material	SS316
Pigtail diameter	3 mm
Pigtail length[2]	1.5 m
Number of sensors	On request
Distance between sensors	On request
Connector type	FC/APC
Water tightness	IP68

[1] Taking into account a depolarized measurement device with a 1 pm wavelength resolution and precision.

[2] Extendable on request

[3] For the sensor, not for the connector. For the high temperatures, splicing is recommended.

Ordering information

Contact the FOS&S Sales department on sales@fos-s.com

This product has been developed in the framework of a joint collaboration between the Belgian Science Policy and the Federal Public Service of Economy, SMEs, Independent Professions and Energy of Belgium.

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