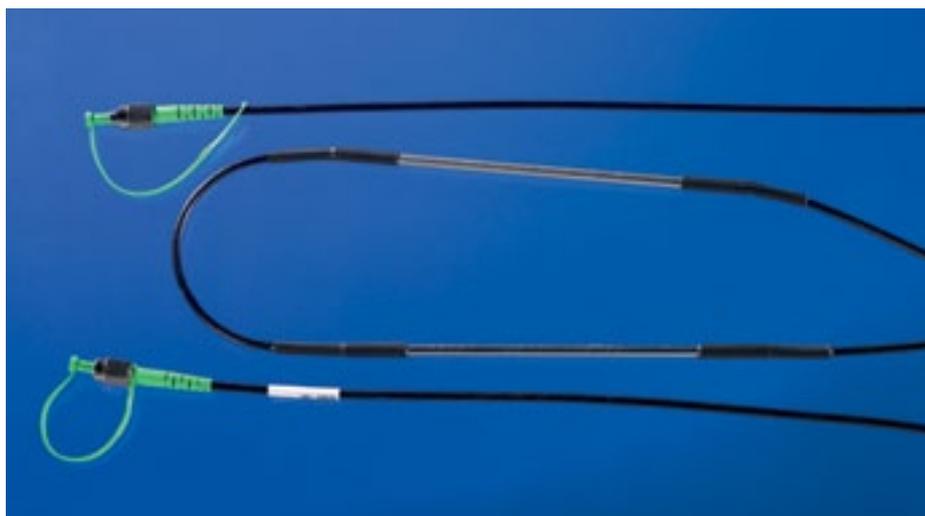


Temperature Chain TC-02

Fibre Bragg Gratings reinvented

Draw Tower Gratings (DTG®s) are produced during the drawing process of the fibre itself, before the primary coating is applied. This is a cost effective production process for high quality Fibre Bragg Gratings. This offers unique characteristics such as extremely high breaking strength, insensitivity to bending, spliceless array configurations and uniform coating coverage. FBG parameters and coating material can be selected based on customer needs.



Description

The fibre optic Temperature Chain TC-02 is a flexible and ruggedized cable containing several temperature sensors in series on a single fibre. 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 to make series configurations possible. The Temperature Chain can be configured according to customer needs i.e. the number of temperature sensors and the intermediate sensor distances can be specified.

Features

- Distributed temperature sensing
- Fully configurable according to customer needs
- Watertight and ruggedized housing, for use in harsh environments



Standard Specification

Parameter	Value
Temperature resolution ¹	0.1°C
Temperature precision ¹	1°C
Sensor 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
Pigtail material	Steel armoured LDPE jacket
Number of sensors	On request
Distance between sensors	On request
Connector type	FC/APC
Level of protection ³	IP67

¹ Using a depolarized measurement device with a 1 pm wavelength resolution and precision.

² Extendable on request.

³ For the sensor and cable, but not for the connector. For high temperatures, splicing is recommended.

Ordering information

Please contact our sales department.

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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