

# Sensor Cable SEC 20



## Features

- ◆ Complete encapsulation to protect sensors from environmental influences
- ◆ Flexible sensor spacing to comply to project demand (1 m ... 10 m approved by VdS Schadenverhütung)
- ◆ Pinpoint sensor location via individual addresses
- ◆ Maintenance free cable
- ◆ Aramid fibres serve as strain relief and as reinforcement in case of fire
- ◆ Easy mounting by use of diverse fasteners
- ◆ Branching of cable routes via connection boxes
- ◆ Constant sensor monitoring via control and evaluation unit LISTcontroller
- ◆ Quick cable repair in case of mechanical damage
- ◆ To be used with control and evaluation unit LISTcontroller

## General Data

- ◆ Operating temperature: -40 °C ... +85 °C, up to +200 °C short term
- ◆ Measurement range: -40 °C ... +200 °C
- ◆ Cable diameter: Typ. 18 mm
- ◆ Flat conductor resistance: Typ. 85 Ω / km (single conductor)
- ◆ Sheath material: HM4 mixture, halogen-free and flame retardant, according to EN 50267-2-1:1999-04, EN 50267-2-2:1999-04, EN 60332-1-2:2005-06, EN 60332-2-2:2005-06, EN 61034-2:2006-03, IEC 60754-1, IEC 60754-2
- ◆ Weight: Typ. 0,45 kg / m
- ◆ Sheath colour: Standard grey (other colours on request, minimum purchase quantity 2.000 m)
- ◆ Marking: Consecutive number printed at each sensor location, followed by cable identifier
- ◆ Deliverable cable length: Up to 2.000 m (extended cable routes are realisable by connection boxes)  
Up to 3.200 m **SEC 20** per LISTcontroller (max. 3.500 m including **CC 20** connection cable)  
For shorter sensor cable lengths the **CC 20** connection cable may have a maximum length of 1.500m on both of the cable ports **SEC1** and **SEC2** (loop), at a total maximum length of 3.500 m
- ◆ Mounting temperature: ≥ +10 °C
- ◆ Bending radius: ≥ 30 cm
- ◆ Verified and approved to: EN 54-22 by VdS Schadenverhütung, VdS no. G 213072, response classes A1N, A2N, and BN  
Meets requirements of environmental classification III

## Sensor Specification

- ◆ Measurement resolution: 0,1 °C
- ◆ Repeatability: ± 0,1 K
- ◆ Sensor address range: 0 ... 999
- ◆ Supply voltage: 15 V DC via LISTcontroller

## Ordering Information

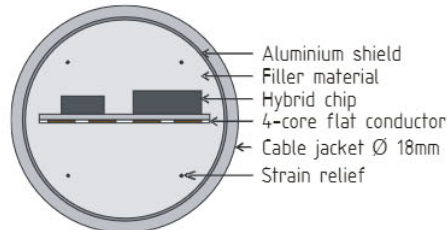
- |   |                         |
|---|-------------------------|
| ◆ <b>Sensor Cable SEC 20/01</b> (1 m sensor spacing)  | Art.-no.: <b>G00382</b> |
| ◆ <b>Sensor Cable SEC 20/02</b> (2 m sensor spacing)  | Art.-no.: <b>G00385</b> |
| ◆ <b>Sensor Cable SEC 20/03</b> (3 m sensor spacing)  | Art.-no.: <b>G00387</b> |
| ◆ <b>Sensor Cable SEC 20/04</b> (4 m sensor spacing)  | Art.-no.: <b>G00388</b> |
| ◆ <b>Sensor Cable SEC 20/05</b> (5 m sensor spacing)  | Art.-no.: <b>G00389</b> |
| ◆ <b>Sensor Cable SEC 20/06</b> (6 m sensor spacing)  | Art.-no.: <b>G00390</b> |
| ◆ <b>Sensor Cable SEC 20/08</b> (8 m sensor spacing)  | Art.-no.: <b>G00393</b> |
| ◆ <b>Sensor Cable SEC 20/10</b> (10 m sensor spacing)   | Art.-no.: <b>G00394</b> |
| ◆ <b>Sensor Cable SEC 20/0x</b> (Customer specified sensor spacing, limited to not less than 0,5 m) | Art.-no.: <b>G00395</b> |

**Scope of Delivery**

- ◆ Ordered sensor cable length may either be shipped on a one way drum, or on loaner KTG-drum and pallet.

**Cable Construction**

- ◆ Four-core flexible flat cable with hybrid circuits
- ◆ Filler material with strain relief
- ◆ Aluminium foil shield
- ◆ Sheath with imprints at each sensor location



**Cable Imprint**

Imprint 1: The sensor marking is used in cable lists, delivery notes etc.

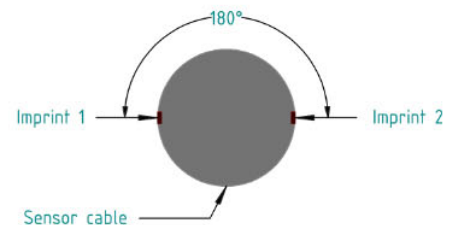
xxxx \* LIST-Sensorkabel \* Kyyyyyy \* LISTEC GmbH \* Nexans \*

Both imprints start on the same level

\*\*\*\*\* LIST Sensor Cable SEC 20 \*\*\*\*\* Environmental class III \*\*\*\*\*

Imprint 2: Static marking only

Every block with 5 x \*



**Legend:**

xxxx: Sensor position in the cable, four-digit consecutive sensor marking, at 3 m sensor spacing with a leading "0" (zero).  
yyyyyy: Three- to six-digit cable number

LISTEC GmbH  
Am Sandberg 34  
D - 84424 Isen  
Germany

Tel.: +49 (0) 8083 5385-0  
Fax.: +49 (0) 8083 5385-20  
e-mail: info@listec-gmbh.de  
www.listec-gmbh.de

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Subject to change without prior notice!