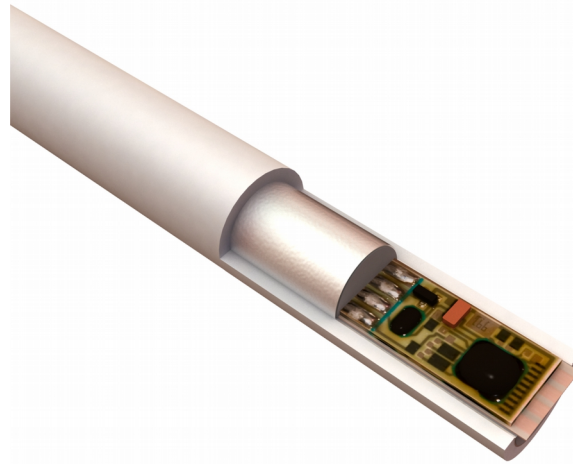


# Sensor Cable SEC 20-Ex



## Features

- ◆ ATEX marking for use in zones 2 and 22
- ◆ Complete encapsulation to protect sensors from environmental influences
- ◆ Sensor spacing selectable to comply to project demand
- ◆ 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
- ◆ To be used with LISTcontroller
- ◆ May be combined with LIST external sensors **ESA**
- ◆ Up to 3.200 m sensor cable length with 320 sensors per LISTcontroller

## General Data

- ◆ Type of protection zone 2: Ex II 3G Ex nA IIC T4 Gc
- ◆ Operating temp. zone 2: -20 °C ... +80 °C, from 70 °C protected from mechanical impact energy (EN 60079-0 / 26.4.2)
- ◆ Type of protection zone 22: Ex II 3D Ex tc IIIC T125 °C Dc
- ◆ Operating temp. zone 22: -20 °C ... +70 °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, EN50267-2-2:1999-04, 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: Grey or black
- ◆ Marking: Consecutive number printed at each sensor location, followed by cable identifier
- ◆ Deliverable cable length: Up to 2.000 m
- ◆ Mounting temperature: ≥ +10 °C
- ◆ Bending radius: ≥ 30 cm
- ◆ Verified and approved to: FprEN 54-22:2012 by VdS Schadenverhütung, VdS no.: G 213072  
Meets requirements of environmental classification III

## Sensor Specifications

- ◆ Measurement range: -40 °C ... +200 °C
- ◆ Measurement resolution: 0,1 °C
- ◆ Repeatability: ± 0,1 K
- ◆ Supply voltage: 15 V DC via LISTcontroller

## Ordering Information

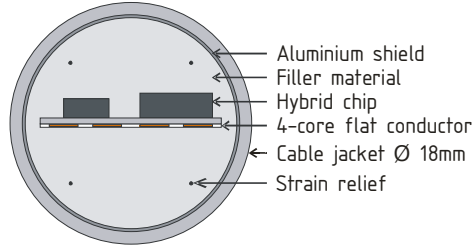
- |   |                         |
|---|-------------------------|
| ◆ <b>Sensor Cable SEC 20/01</b> (1 m sensor spacing)  | Art.-no.: <b>G00382</b> |
| ◆ <b>Sensor Cable SEC 20/02</b> (2 m sensor spacing)  | Art.-no.: <b>G00385</b> |
| ◆ <b>Sensor Cable SEC 20/03</b> (3 m sensor spacing)  | Art.-no.: <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/xx</b> (Customer specified sensor spacing, limited to not less than 0,5 m)   | Art.-no.: <b>G00395</b> |
| ◆ <b>ATEX marking for sensor cable SEC 20</b> (to be ordered for every separate sensor cable section) | Art.-no.: <b>S00004</b> |

**Scope of Delivery**

- ◆ Ordered sensor cable length may either be shipped on a one way drum, or on loaner KTG-drum and pallet
- ◆ ATEX markings for every separate sensor cable section

**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 \* Kyyy \* Listec GmbH \* Nexans \* VdS Nr. G 213072 \*

Both imprints start on the same level

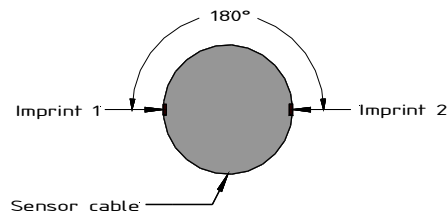
\*\*\*\*\* LIST Sensor Cable SEC 20 \*\*\*\*\* FprEN54-22:2012 - Umweltgruppe III \*\*\*\*\*

**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).
- yyy:** Three-digit cable number



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Subject to change without prior notice!