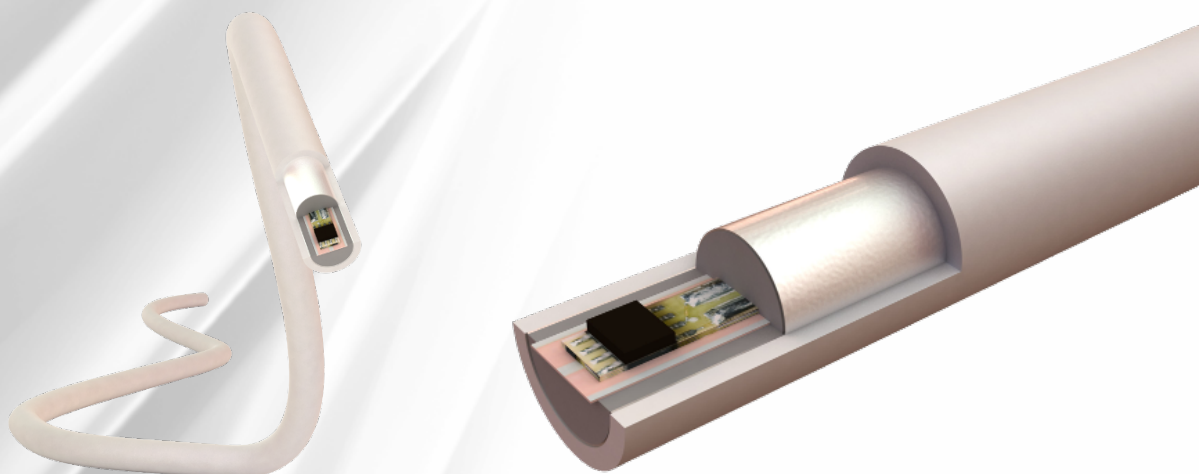


# Sensor Cable SEC 15



## Features

- ▶ Complete encapsulation to protect sensors from environmental influences
- ▶ Sensor spacing selectable to comply to project demand (1 m ... 10 m approved by VdS Schadenverhütung GmbH)
- ▶ 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
- ▶ May be combined with d-LIST external sensors **ESD-A5**
- ▶ Quick cable repair in case of mechanical damage
- ▶ Up to 2 x 320 m combined cable length, respectively up to 2 x 100 sensors per sensor control unit **SCU 835**

## General Data

- ▶ Operating temperature: -40 °C ... +85 °C, up to +120 °C short term
- ▶ Cable diameter: Typical 15 mm
- ▶ Flat conductor resistance: Typical 71 Ω / km (single conductor)
- ▶ Cable material **SEC 15**: According to:  
EN 60332-1-2:2004-06+A1:2015+A11:2016, EN 60332-2-2:2005-06, EN 60332-3-10:2009, EN 60332-3-24 cat C:2009, EN 61034-1:2005+A1:2014, EN 61034-2:2005+A1:2013
- ▶ Sheath material: HM4 mixture, halogen-free and flame retardant, according to:  
EN 50305:2002, EN 60684-2:2011, EN 60754-1:2014, EN 60754-2:2014, EN 45545-2
- ▶ Insulation value: 6 GΩ x km
- ▶ Weight: Typical 0,35 kg / m
- ▶ Sheath colour: Standard grey (other colours on request, minimum order quantity 2.400 m)
- ▶ Marking: Consecutive number printed at each sensor location, followed by cable identifier
- ▶ Deliverable cable length: Up to 2.400 m, prefabricated cable sections on request
- ▶ Mounting temperature: between +10 °C ... +40 °C (own temperature of the sensor cable)
- ▶ Bending radius: ≥ 25 cm
- ▶ Storage Conditions: 0 °C ... +60 °C, 30% ... 70% relative humidity, non condensing, prevention against shock, vibration, dust, electrostatic discharge **ESD**, **UV** light
- ▶ Verified and approved to: **EN 54-22**, approved by VdS Schadenverhütung GmbH, VdS no. G 221004, Environmental class III, Response classes **A1N, A2N, BN, CN, A1I, A2I, BI, CI**

## Sensor Specification

- ▶ Measurement range: -40 °C ... +120 °C
- ▶ Measurement resolution: 0,0625 °C, output via protocol interface 0,1 °C
- ▶ Repeatability: ± 0,0625 K, output via protocol interface ± 0,1 K
- ▶ Supply voltage: 5 V DC via sensor control unit **SCU 835**

## Ordering Information

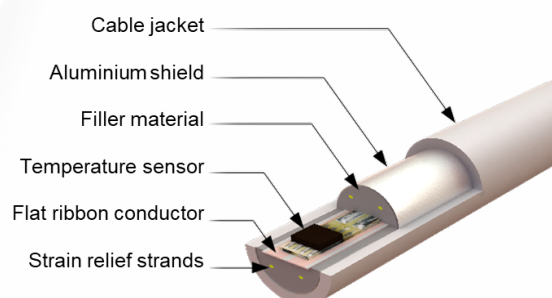
▶ Sensor cable <b>SEC 15/01</b> (1 m sensor spacing)	Art.-no.: <b>62-2000360-00-00</b>
▶ Sensor cable <b>SEC 15/02</b> (2 m sensor spacing)	Art.-no.: <b>62-2000367-00-00</b>
▶ Sensor cable <b>SEC 15/03</b> (3 m sensor spacing)	Art.-no.: <b>62-2000372-00-00</b>
▶ Sensor cable <b>SEC 15/04</b> (4 m sensor spacing)	Art.-no.: <b>62-2000374-00-00</b>
▶ Sensor cable <b>SEC 15/05</b> (5 m sensor spacing)	Art.-no.: <b>62-2000376-00-00</b>
▶ Sensor cable <b>SEC 15/10</b> (10 m sensor spacing)	Art.-no.: <b>62-2001014-01-01</b>

## Scope of Delivery

- ▶ Ordered sensor cable length may be shipped as a cable ring in a carton, on a one way drum and pallet

## Cable Construction

- ▶ Two-core flexible flat cable with temperature sensors
- ▶ Filler material with strain relief strands
- ▶ Aluminium foil shield
- ▶ Sheath with cable imprints, Ø 15 mm



## Cable Imprint

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

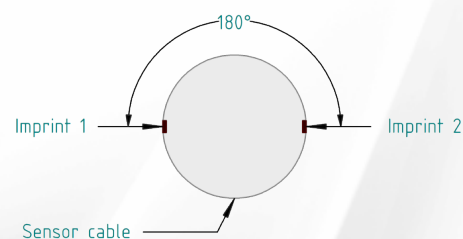
**xxxx \* d-LIST-Sensorkabel \* Dyyyzz \* LISTEC GmbH \* Nexans \***

Both imprints start on the same level

**\*\*\*\*\* d-LIST Sensor Cable SEC 15 \*\*\*\*\* Environmental class III \*\*\*\*\***

Imprint 2: Static marking only

Every block with 5 x \*



### Legend:

xxxx: Sensor position in the cable, three- to four-digit consecutive sensor marking  
 yyy: Three-digit cable number  
 zz: Sensorspacing (i.e. 04 = 4m)

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