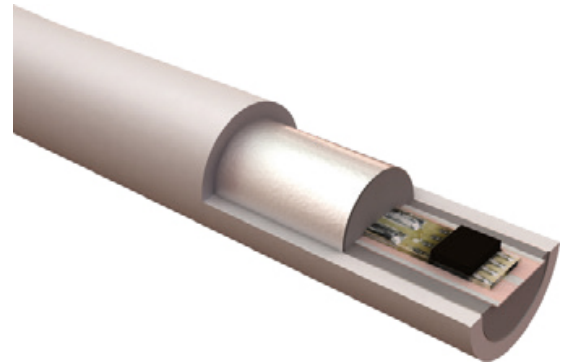## LSC-15 Addressable Linear Sensor Cable

Dust, heat, smoke, exhaust fumes and other interference factors have a significant impact on detecting fires when using conventional fire detectors. However, it is exactly under such difficult conditions that the fire risk is at its greatest. It is vital to ensure quick and reliable detection –be it in tunnels, industrial facilities, power plants or car parks. With the SecuriHeat d-LIST Linear Sensor Cable, Securiton provides systems that can enable the rapid localisation of a fire – even when used in harsh, aggressive environments.

Features

- Complete encapsulation to protect sensors from environmental influences
- Sensor spacing selectable to comply to project demand (1m ... 10m)
- 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 350 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)
- **Sheath material:** HM4 mixture, halogen-free and flame retardant
- **Insulation value:** 6 GΩ x km
- **Weight:** Typical 0.35 kg / m
- **Sheath colour:** Standard grey
- **Marking:** Consecutive number printed at each sensor location
- **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

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

- **SEC-LSC-15-01**   Linear Sensor Cable - sensor spacing 1m
- **SEC-LSC-15-02**   Linear Sensor Cable - sensor spacing 2m
- **SEC-LSC-15-03**   Linear Sensor Cable - sensor spacing 3m
- **SEC-LSC-15-04**   Linear Sensor Cable - sensor spacing 4m
- **SEC-LSC-15-05**   Linear Sensor Cable - sensor spacing 5m
- **SEC-LSC-15-10**   Linear Sensor Cable - sensor spacing 10m

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