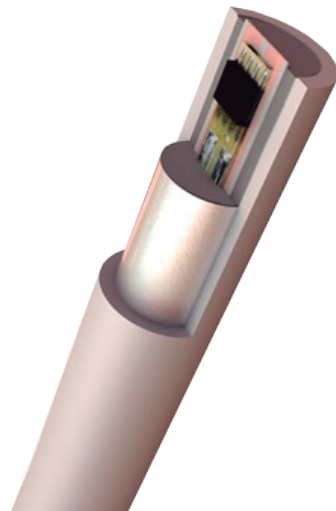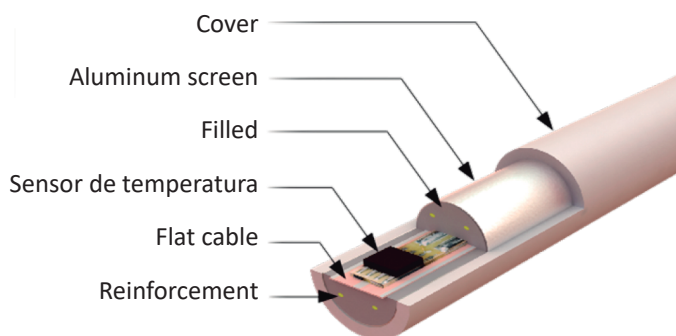# D-LIST SENSOR CABLE
AECS/SEC15

Description

- Temperature sensors fully protected from external influences by filling, general shielding and covering
- Freely selectable sensor spacing according to project requirements (1 m … 10 m approved by VdS Schadenverhütung GmbH)
- Precise location of the sensor thanks to the individual direction of each one
- Maintenance-free sensor cable
- Internal aramid fibers for stress relief and as mechanical reinforcement in case of fire
- Easy installation with multiple fixing options
- Branching of sensor cable sections through connection boxes
- Can be combined with external sensors d-LIST ESD-A5
- Quick repair of the sensor cable in case of mechanical damage
- Up to 2 x 250 m of combined cable runs, respectively up to 2 x 99 sensors per SCU 800 control unit or
- Up to 2 x 320 m of combined cable runs, respectively up to 2 x 100 sensors per d-LIST controller control unit

Cable construction

Cover
Aluminum screen
Filled
Sensor de temperatura
Flat cable
Reinforcement

· 2-conductor flat cable with hybrid circuits (temperature sensors)
· Filler material with mechanical reinforcements for stress relief
· General aluminum screen
· Cover with markings in the location of each sensor, Ø 15 mm

TECHNICAL CHARACTERISTICS

Operating temperature:	-40 ° C… +85 ° C, up to +120 ° C for a short period
Cable outer diameter:	Theoretical 15 mm
Flat cable resistance:	Theoretical 71 Ω / km (single conductor)
SEC 15 cable material:	tested according to:EN 60332-1-2: 2004-06 + A1: 2015 + A11: 2016, EN 60332-2-2: 2005-06, EN 6033-3-10: 2009, EN 60332-3-24 cat C: 2009, EN 61034-1: 2005 + A1: 2014, EN 61034-2: 2005 + A1: 2013
Outer jacket material:	Special compound, HM4, halogen-free and flame retardant, conforming 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:	Theoretical 0.35 kg / m
Outer shell color:	Standard gray (other colors on request, minimum order 2,400 m)
Marking on cover:	Consecutive number printed in the position of each sensor, followed by the cable number
Delivery format:	Up to 2,400 m, prefabricated cable runs on request
Installation temperature:	between +10 ° C … +40 ° C (intrinsic temperature of the sensor cable)
Bending radius:	≥ 25 cm
Storage conditions:	0 ° C … +60 ° C, relative humidity 30% …. 70% without condensation, protect against shock / vibration / dirt / electrostatic discharge ESD, UV rays
Tested according to:	EN 54-22, certified by VdS Schadenverhütung GmbH, VdS Nr. G 221004, environmental group III, response classes A1N, A2N, BN and CN (A1I, A2I, BI and CI requested from VdS Schadenverhütung GmbH)

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D-LIST SENSOR CABLE
AECS/SEC15

TECHNICAL CHARACTERISTICS	
Sensor specification	
Measuring range:	-40 ° C... +120 ° C
Measurement resolution:	0.0625 ° C, Output via protocol interface 0.1 ° C
Repeat measurement accuracy:	± 0.0625K, Output via protocol interface ± 0.1K
Supply voltage:	5 V DC via SCU 800 control unit or d-LISTcontroller

Marking on sensor cable cover

Marking 1: Marking of the cable used in cable lists, delivery notes, etc.

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

Both marked start at the same height

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

Marking 2: No number - only general markup

Each block with 5x *

180°

Marking 1 — Marking 2

Sensor Cable

Legend:
xxxx: Sensor position on the cable: number indicated by three to four consecutive digits.
yyy: three-digit wire number.
zz: distance between sensors (ex. 04 = 4m)