



# LLTE-A1300111100E4

Fiber-optic cables

**FIBER-OPTIC SENSORS**

**SICK**  
Sensor Intelligence.



Illustration may differ

Ordering information

Type	part no.
LLTE-A1300111100E4	2136422

**Included in delivery:** LLAC-AB10 (1), LLAC-AB13 (1), LLAC-FC (1)

Other models and accessories → [www.sick.com/Fiber-optic\\_cables](http://www.sick.com/Fiber-optic_cables)

Detailed technical data

Features

<b>Device type</b>	Fiber-optic cables
<b>Functional principle</b>	Proximity system
<b>Fiber-optic head design</b>	Threaded sleeve
<b>Application</b>	Standard
<b>Compatible fiber-optic amplifiers</b>	GLL70, WLL80, WLL180, GLL170(T)
<b>Sensing range max.</b>	Depending on the fiber optic amplifier used
<b>Optical fiber head</b>	
Angle of dispersion	60°
Integrated lens	No
Compatibility tip adapters	Yes
<b>Optical fiber</b>	
Compatibility with infrared light	No
Optical fiber cable can be shortened	✓
Adapter end sleeves required	Yes (1 x LLAC-AB10 / 1 x LLAC-AB13)
<b>Items supplied</b>	1 x fiber cutter (LLAC-FC), M3 mounting set (2 x M3 nut + 2 x M3 washer), 2 x fiber adapter bushing (1 x LLAC-AB10 + 1 x LLAC-AB13)

Mechanics

<b>Optical fiber head</b>	
Light emission	Axial
Thread diameter (housing)	M3
<b>Optical fiber</b>	
Fiber length	10,000 mm
Bending radius	15 mm
Dynamic flexibility (robotics)	No
Outside diameter, optical fiber cable connection	2.2 mm
Fiber arrangement	Coaxial
Core structure	Ø 0,5 mm Coaxial
<b>Material</b>	
Optical fiber head	Stainless steel
Sheath	Polyethylen (PE)

	Fibers	PMMA
<b>Weight</b>		37 g

## Ambient data

<b>Ambient operating temperature</b>	-40 °C ... +60 °C
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## Sensing ranges with WLL180T

<b>Operating mode 16 µs</b>	12 mm
<b>Operating mode 70 µs</b>	30 mm
<b>Operating mode 250 µs</b>	54 mm
<b>Operating mode 2 ms</b>	115 mm
<b>Operating mode 8 ms</b>	185 mm

## Sensing ranges with GLL170

<b>Operating mode 250 µs</b>	13 mm
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## Sensing ranges with GLL170T

<b>Operating mode 50 µs</b>	23 mm
<b>Operating mode 250 µs</b>	38 mm

## Certificates

<b>RoHS manufacturer declaration</b>	✓
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## Classifications

<b>ECLASS 5.0</b>	27270905
<b>ECLASS 5.1.4</b>	27270905
<b>ECLASS 6.0</b>	27270905
<b>ECLASS 6.2</b>	27270905
<b>ECLASS 7.0</b>	27270905
<b>ECLASS 8.0</b>	27270905
<b>ECLASS 8.1</b>	27270905
<b>ECLASS 9.0</b>	27270905
<b>ECLASS 10.0</b>	27270905
<b>ECLASS 11.0</b>	27270905
<b>ECLASS 12.0</b>	27270905
<b>ETIM 5.0</b>	EC002651
<b>ETIM 6.0</b>	EC002651
<b>ETIM 7.0</b>	EC002651
<b>ETIM 8.0</b>	EC002651
<b>UNSPSC 16.0901</b>	39121528

Technical drawing of a 3D printed part. The drawing includes a cross-section view and a side view. The cross-section view shows a circular part with 9 holes of diameter 0.25 mm and an outer diameter of 0.5 mm. The side view shows a part with a total length of 17 mm, a threaded section of 0.5 mm, and a tapered section of length L. The part has a diameter of 1.25 mm at the top and 1.0 mm at the bottom.

② sender

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	Brief description	Type	part no.
Mounting systems			
	<ul style="list-style-type: none"> <li>• <b>Description:</b> Adapter sleeve for Ø 1.0 mm fiber-optic cable for adaptation to Ø 2.2 mm, included with delivery of fiber-optic cable</li> <li>• <b>Items supplied:</b> 1 pieces</li> </ul>	LLAC-AB10	2119446
	<ul style="list-style-type: none"> <li>• <b>Description:</b> Adapter sleeve for Ø 1.3 mm fiber-optic cable for adaptation to Ø 2.2 mm, included with delivery of fiber-optic cable</li> <li>• <b>Items supplied:</b> 1 pieces</li> </ul>	LLAC-AB13	2119447
	<ul style="list-style-type: none"> <li>• <b>Description:</b> Fiber cutting tool, in LLX scope of delivery</li> <li>• <b>Items supplied:</b> 1 pieces</li> </ul>	LLAC-FC	2119448

## SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

## WORLDWIDE PRESENCE:

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