




# Sentire T85

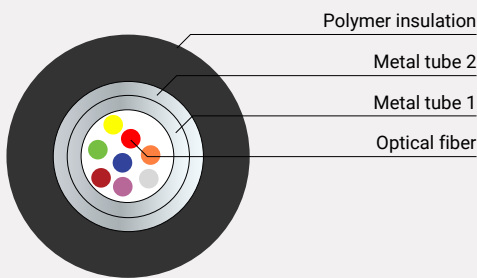
## Point and Distributed Temperature Sensing Cable

The Sentire product line offers ultra-compact, robust cables tailored for extreme sensing environments, featuring a metallic layer-protected, loose tube design for precise, rapid measurements across a broad **temperature range, up to 85°C**. These durable cables support **Raman, Brillouin, and FBG** technologies over continuous lengths of several kilometers, ensuring strain-free performance. With superior rodent protection, they are suitable for direct burial, conduit, or aerial use, combining compactness, lightness, and flexibility in a robust package.

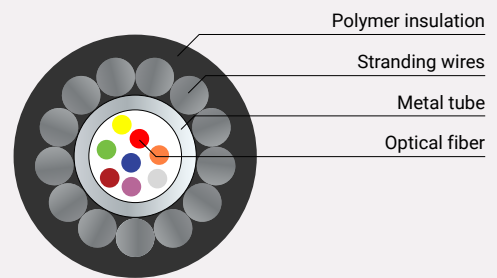


-  **Conveyor Belt Monitoring**
-  **Tunnel Monitoring**
-  **Tank Monitoring**
-  **Pipeline Leakage Monitoring**
-  **Industrial Plant Monitoring**
-  **Fire Detection**
-  **Seepage Monitoring**
-  **Reservoir Monitoring**

### Sentire T85 Double Layer



### Sentire T85 Armored



Alternative configurations and layers available upon request

## Product Features

### Double layer

- Compact and lightweight design
- Superior crush resistance
- High chemical resistance
- Fast thermal response
- Small bending radius

### Armored

- High tensile strength
- High crush resistance
- High flexibility
- High chemical resistance

Standard Fiber configuration:  
2 x SMF, 2 x MMF

Other available configurations:  
MMF: up to 4  
SMF: up to 4

— Multi mode fiber  
..... Single mode fiber

	White		Green
	Blue		Yellow
	White		Grey
	Brown		Violet

Sentire T85

## Product Specification

Values stated at room temperature  
(+20°C/68°F)

### Sentire T85 Double Layer

### Sentire T85 Armoured

#### General Characteristics

Outer Diameter	3.6 mm	0.142"	4.0 mm	0.157"
Covering Layer	PA		PA	
Weight	20.5 kg/km	13.75 lbs/kft	38.5 kg/km	25.75 lbs/kft
Operation Temperature	up to 85°C	185°F	up to 85°C	185°F

#### Mechanical Characteristics

Breaking strength	1.000 N	225 lbs	1.900 N	425 lbs
Max. operational tensile force	350 N	80 lbs	850 N	190 lbs
Crush resistance	10.000 N/10cm	2250 lbs/3.94"	6.500 N/10cm	1450 lbs/3.94"
Hydrostatic pressure rating	3.000 bar	43.5 kPSI	1.800 bar	26 kPSI
Min. bending radius without load	55 mm	2.17"	55 mm	2.17"

#### Optical Characteristics

<i>Multi-Mode Fiber acc. to ITU-T G.651 50/125</i>		<i>Single Mode Fiber acc. to ITU-G652D/G657A1</i>	
Attenuation at 850nm	≤ 2.5 dB/km	Attenuation at 1310 nm	≤ 0.36 dB/km
Attenuation at 1300nm	≤ 0.7 dB/km	Attenuation at 1550 nm	≤ 0.24 dB/km

- Connectors for both ends available on request
- Length based on customer requested
- Meter marking on sheath printed
- Various sheath colors and marking options available upon request



### Packaging and Single Length

Standard packaging consists of wooden reels in a standing position fixed on pallets. The outer layer is protected with bubble foil and flexible cardboard. Optionally, spools provided by customer can be used. Produced single lengths are tailored to meet customer requests.



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more details

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