

Sentire T300

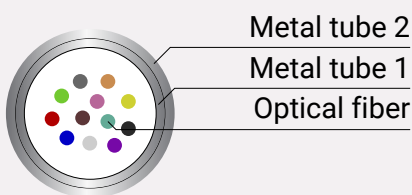
Point and Distributed Temperature Sensing Cable

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 300°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.

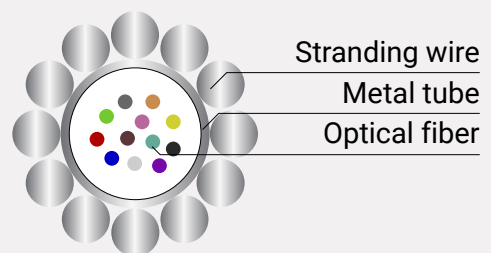


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|--|--|--|
|  Conveyor Belt Monitoring |  Tunnel Monitoring |  Tank Monitoring |
|  Pipeline Leakage Monitoring |  Industrial Plant Monitoring |  Fire Detection |
|  Seepage Monitoring |  Reservoir Monitoring | |

Sentire T300 Double Layer



Sentire T300 Armored



Sentire T300

Alternative configurations and layers available upon request

Product Features

Double layer

- Compact and lightweight design
- Superior crush resistance
- Fast thermal response
- Small bending radius
- Optional polymer sheath available

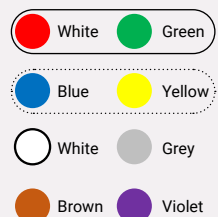
Armored

- Compact and lightweight design
- Superior crush resistance
- Fast thermal response
- Optional polymer sheath available

Standard Fiber configuration:
1 or 2 SMF/MMF

Combination of SMF and MMF and
higher fiber counts possible.

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





Product Specification

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

Sentire T300 Double Layer

Sentire T300 Armored

General Characteristics

Outer Diameter (without sheath)	2.6 mm	0.102"	3.4 mm	0.134"
Steel material	Stainless Steel or Nickel Alloy		Stainless Steel or Nickel Alloy	
Weight	22.5 kg/km	12.77 lbs/kft	41.5 kg/km	27.89 lbs/kft
Operation Temperature	up to 300°C	572°F	up to 300°C	572°F

Mechanical Characteristics

Breaking strength	2.100 N	470lbs	3.000 N	675 lbs
Max. operational tensile force	700 N	155 lbs	1000 N	225 lbs
Crush resistance	9.000 N/10cm	2020 lbs/3.94"	6.000 N/10cm	1380 lbs/3.94"
Hydrostatic pressure rating	2.500 bar	36.2kPSI	1.500 bar	21.7kPSI
Min. bending radius without load	65mm	2.56"	85mm	3.35"

Optical Characteristics

Multi-Mode Fiber acc. to ITU-T G.651 50/125/245

Attenuation at 850nm ≤ 3.2 dB/km

Attenuation at 1300nm ≤ 1.2 dB/km

Multi-Mode Fiber acc. to ITU-T G.651 62.5/125/245

Attenuation at 850nm ≤ 4.2 dB/km

Attenuation at 1300nm ≤ 1.7 dB/km

Single Mode Fiber acc. to ITU-G652D/G657A1

Attenuation at 1310nm ≤ 0.72 dB/km

Attenuation at 1550nm ≤ 0.52 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



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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.