



Sentire T350

Sentire products are designed to be reliable and maintenance free. They are functioning for a wide range of applications and be customizable in special installation cases. The standardized temperature-sensors in this product family have a lose tube steel core, which enables best measurement accuracy over the complete temperature range and keep's its fiber-performance. The used fibers are compatible to the measuring methods Raman and Brillouin.

Key features

- ✓ Operating temperature up to 350°C
- ✓ Fast thermal response
- ✓ Design for high temperature (TST)
- ✓ Optimized EFL

Applications

- ✓ Process industry
- ✓ Harsh environment applications
- ✓ Embeddable in materials or attached to structures

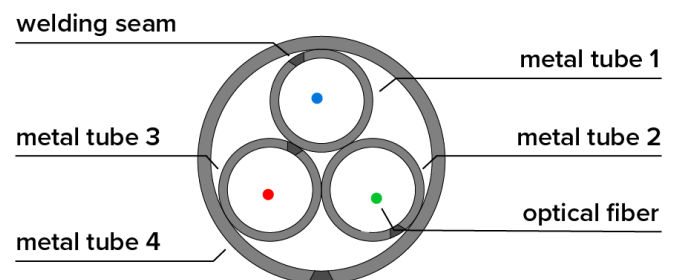
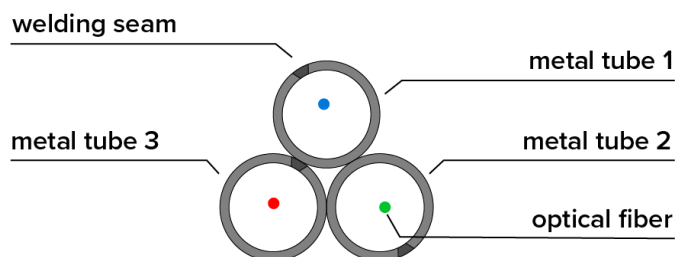
Standard products

Sentire T350 Flex

- Lightweight
- More flexibility
- Very good mechanical interlocking with embedding material
- Good chemical resistance

Sentire T350 Rugged

- Higher tensile strength rating
- Higher crush resistance
- Robust design, protection of FIMT's
- Higher hermetic tightness
- Good chemical resistance



All values, product specifications and other given data are subject to change without notice to improve reliability, function, design or otherwise. Information contained in this data sheet are up-to-date as at the date of issue. As NBG cannot control or anticipate the conditions under which this product may be used, each user should review the information in specific context of the planned use. To the maximum extent permitted by law, NBG will not be responsible for damages of any nature resulting from the use or reliance upon the information contained in this data sheet.



Sentire T350

Product specification*

	Sentire T350 Flex	Sentire T350 Rugged
Outer diameter	3.9 mm (+/- 0.3 mm)	4.5 mm (+/- 0.3 mm)
Covering layer	-	Steel layer
Total weight (calculated, gel and 3 fiber)	24.20 kg/km	55.70 kg/km
Number of fibers	up to 3 fiber (1 fiber per tube)	up to 3 fiber (1 fiber per tube)
Type of fiber	Special polyimide-based coating (SM&MM)	Special polyimide-based coating (SM&MM)
Operating temperature	-65 °C to 350 °C	-65 °C to 350 °C
Ultimate tensile strength (calc.)	2550 N	6100 N
Max. operational tensile force (calc.)	1700 N	3950 N
Max. installation tensile force (calc.)	900 N	1900 N
Crush resistance @10% deformation (calc.)	3460 N/100mm	7050 N/100mm
Max. hydrostatic pressure (calc.)	1900 bar	2350 bar
Min. bending radius (static)	90 mm	130 mm
Max. attenuation @850nm (MM)	4.0 dB/km	4.0 dB/km
Max. attenuation @1300nm (MM)	2.0 dB/km	2.0 dB/km
Max. attenuation @1310nm (SM)	0.5 dB/km	0.5 dB/km
Max. attenuation @1550nm (SM)	0.4 dB/km	0.4 dB/km

*The specified values apply to laboratory conditions (+23°C, 1.013 bar).

Standard version

- ✓ Color code: 1-red, 2-green, 3-blue
- ✓ Sensor cable marking every meter (not permanently high temperature-resistant)
- ✓ Sensor cable length up to multiple kilometers
- ✓ Delivered on NBG standard wooden spool

Available upon request

- ✓ Improved mechanical performance
- ✓ Inert gas filled sensor
- ✓ Customized marking
- ✓ Optical fiber characteristics and opportunities
- ✓ Connector material and sensor assembly service

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