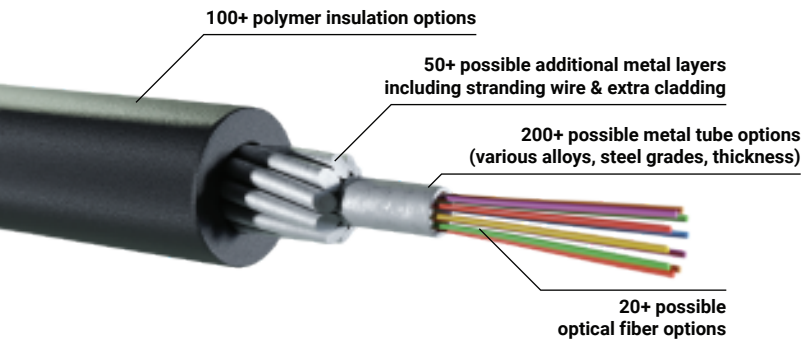


Metal encapsulated optical fibers for data transmission and sensing















What's a FIMT?

Fiber in Metal Tubes (FIMT) are designed as a loose tube construction to protect the integrated optical fibers against mechanical stress, hydrogen exposure and other environmental factors.

The high-density tubular design provides excellent crush resistance while allowing for small bending radii. The FIMT is filled with a thixotropic gel, which can optionally include hydrogen-absorbing additives, and it fully complies with EN60794- 2-22 method F5.

Single and multi-mode fibers can be combined to enable simultaneous data transmission and sensing.

Stats and figures on production

 Diameter 1.1 - 7.0 mm 0.033 - 0.275 in	 Wall thickness 0.125 - 0.30 mm 0.005 - 0.012 in	 Maximum length 50.000 Meters 165.000 Feet	 Metallic tube Inert gas protection Pressure tight weld	 Filling compound Up to 300°C Up to 572°F	 Polymer layers High variation Tiny tolerances
 Wire elements 0.2 mm upwards 0.008 in upwards	 Fiber count max. 144 (250µm) max. 192 (200µm)	 Capacity 20000 km per year 65600 kft per year	 Fiber coloring guide dif. Standards Tube labeling	 Other components AWG wires Sensor Fibers	 Technical support Fast service On-demand product development

Your benefits



Splice less

We offer continuous lengths of up to 50 km reducing the need for splicing and decreasing chances of potential failures.



Reduce downtime

Fiber optics sensing allows for precise localization of faults ensuring any potential repairs are dealt with in a quick and cost efficient manner.



Future proof

Our FIMTs can pack as many as 192 fibers making them an ideal solution for new infrastructure projects where dark fiber is needed.

Your key contacts at NBG



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Why our clients choose us



Austrian manufacturing



Award-winning products



Certifications ISO 9001, EN ISO 14001, ISO 45001



Agile processes



Rapid & specialized production



Over 25 years of experience in fiber optics



Independent manufacturer

Unlimited design possibilities to fit any application or requirement



Up to 192 fibers in a single tube



Various stranding options



Multiple outer tube layers



Unprecedented production quality



Some of our award winning, innovative products



SONOSENS™

High mechanical strength with a 40% better acoustic performance than comparable products on the market.



Next Generation O&G Hybrid Cable

*Patent Pending



NBG

Fiber in Metal Tubes

Complete Fiber Optic Cables

Components for Fiber Optic Cables



Oil & Gas



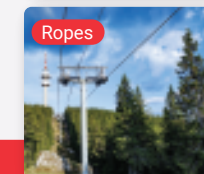
OPGW/OPPC



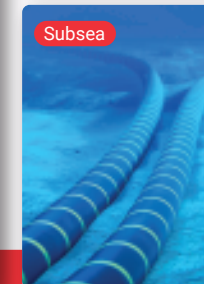
Pipeline monitoring



Harsh environment



Ropes



Subsea