

ENHANCE YOUR CABLES

FIMT
FIBERS IN METAL TUBE

DESIGNED FOR EXTREME MONITORING APPLICATION



DEANGELI
PRODOTTI
every wire, everywhere.

www.deangeliprodotti.com



OUR SOLUTIONS

When reliability matters

Fiber in Metal Tubes (FIMT) combine **durability** and **versatility**, offering reliable protection for optical fibers in demanding environments. Perfect for data transmission and communication, FIMTs ensure **long-lasting performance** even under mechanical stress and harsh conditions. Their compact, all-metal design makes them the ideal choice for integration into **OPGW** and **OPPC** cables, enabling high-density fiber deployment without compromising strength or stability. Today, FIMTs are unlocking new opportunities in **smart infrastructures** and are also deployed as **advanced sensors inside conductors, underground cables** and **submarine cables**. They enable precise monitoring of temperature, strain, and other key parameters, supporting both communication networks and intelligent power grids.

Different configurations for many applications

We provide **a wide range of FIMT configurations and sizes**, tailored to meet the specific requirements of the final application. Possible variants include different tube diameters, fiber number, and tube materials, available in stainless steel or stainless steel with aluminum coating. Fully compatible with all major **single-mode and multi-mode fibers**, including G.652D, G.655, G.657A1 and more, our FIMTs offer maximum flexibility to match your network design and performance needs.



OD FIMT (mm)	Max. amount of fibers (250 µm)	Single tube wall thickness (mm)
		0.15 0.20 0.30
From 1.15 to 1.40	4	● ●
From 1.50 to 2.00	12	● ●
From 3.00 to 3.10	36	●
From 3.20 to 4.10	48	●
From 4.80 to 5.10	48	● ●

