

Vault wire

For reliable data transmission

General description

Subsea telecom cables are usually designed with high-carbon, bright, high-tensile vault wires in three different dimensions. These wires are helically stranded around the optical module, creating a protective vault inside the cables.

Application

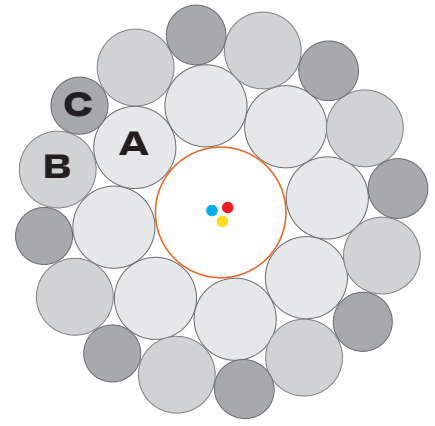
The vault provides a high tensile structure to withstand elongation and protect the optical fibers from crushing and abrasion, effectively eliminating the impact and hydrostatic pressure.

Technical specifications

To protect the optical fibers in data transmission cables, we provide a variety of wire diameters to suit different armouring designs. The most commonly used vault wire combinations vary from 0,80 mm to 1,90 mm.

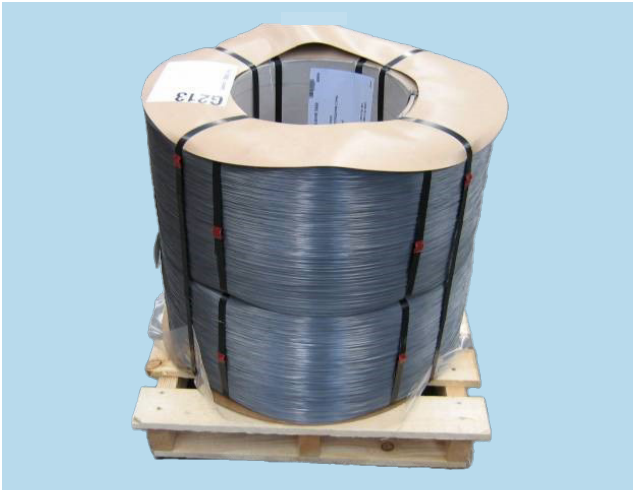
Next to vault wire, we offer cable armouring wires for outer layer protection ranging from 1.9 mm to 4.2 mm with grades G120 - 145. To extend the lifespan of the armouring, you can select from various coatings: galvanized, Bezinal®, and Bezinal®2000 coated wires.

We can supply all wires from our manufacturing plants in Europe and the US.



Available packaging

A vault wire is usually supplied on Z2 spools or on spools according to the customer's request.



Z2 spool	
Inside diameter	± 356 mm
Outside diameter	up to 640 mm
Height	200 mm
Weight	40 - 250 kg