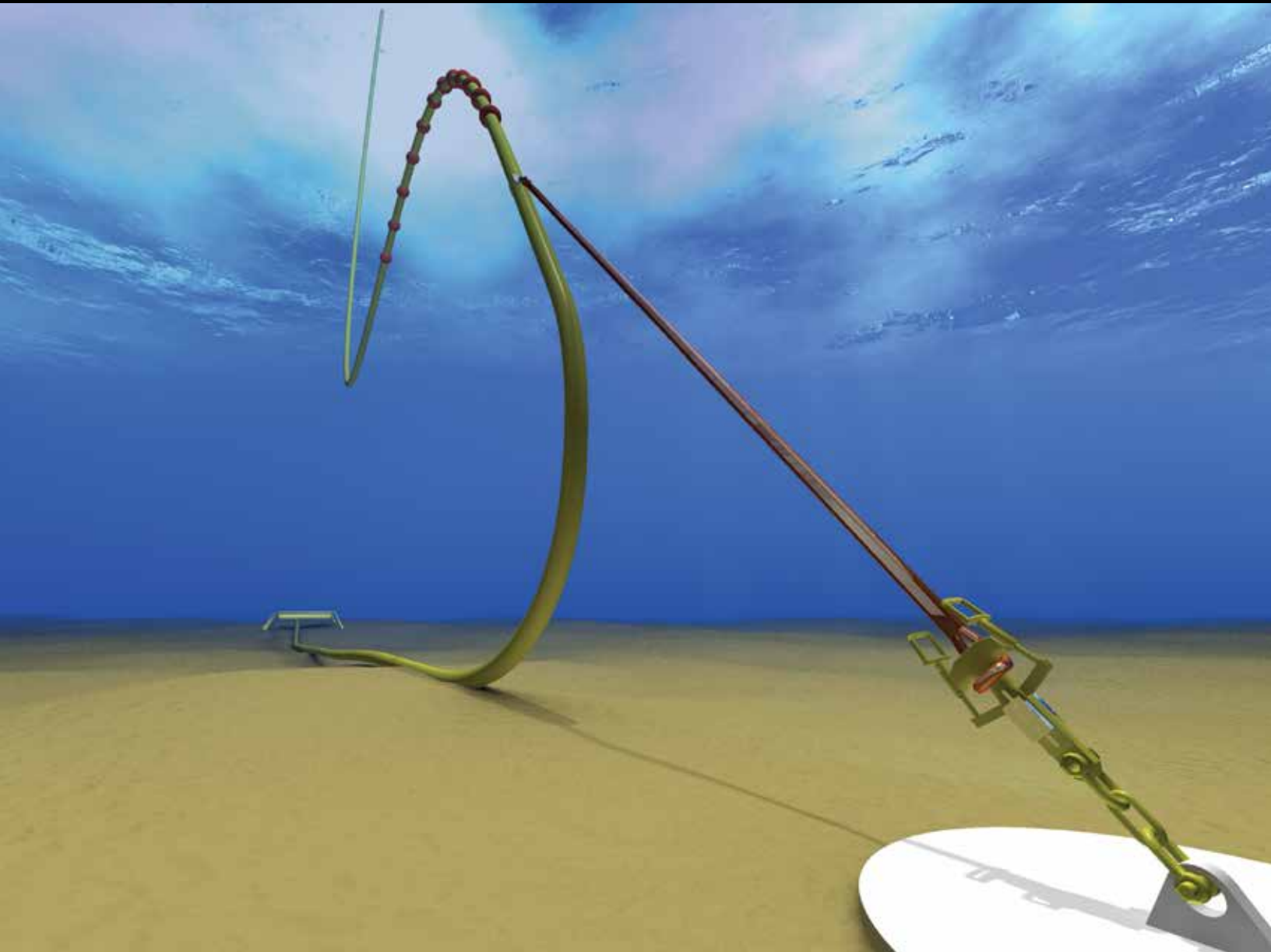


Floating Offshore Wind  
Engineered Synthetic Tether Solutions



# Synthetic Fiber Tether Solutions

Traditionally tethers are engineered using chain, however high-performance synthetic fiber tethers have been found to be considerably more effective.

## Lightweight

These solutions offer the same strength as steel, but are 85% lighter. Simpler and smaller than chain they offer significant weight savings, resulting in reduced installation costs and energy costs for buoyancy.

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## More Durable than Steel

They perform better than steel in fatigue resistance, with no corrosion effects

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## ROV Friendly

Easy to install using divers or ROVs, with convenient change-out of components

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## Designed for Longevity

Design life times of up to 50 years are achievable



## What can we do for you?

Whatever your challenge, Cortland welcomes the opportunity to solve it. Please email [cortland@cortlandcompany.com](mailto:cortland@cortlandcompany.com) for an initial discussion or visit us online at [cortlandcompany.com](http://cortlandcompany.com).

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As operators look to move into deeper waters of up to several hundred meters, or build wind farms above more complex seabed geologies, fixing wind turbines will become more difficult. These wind turbines experience complex, dynamic loading and damping conditions as wind and blades create the massive forces required to produce electricity. What is more, conditions can change quickly.

Where floating wind buoyancy and mooring systems are required, we offer experience in providing fully integrated surface and subsurface tether solutions. Cortland subsea tethers have been used for decades in the mooring of flexible risers and umbilicals, and for mooring of Mid Water Arch (MWA) systems in Oil & Gas projects. Our synthetic tethers are suitable for use with:

- Anchoring of dynamic power cables and inter array cables
- Support for mooring line buoyancy elements

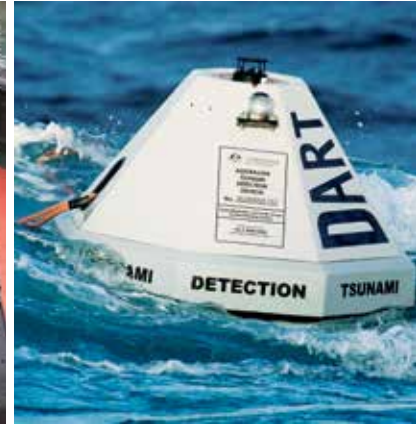
Not all modern high performance synthetic solutions are designed and produced the same. While raw material choice, quality, construction, twist, braid levels, and coatings vary by manufacturer, we are proudly innovative in our fiber solution design and performance. Cortland fabricated tethers will produce weight, strength and product performance which cannot easily be compared with other manufacturers.

All our solutions are backed by extensive testing regimes and engineering expertise. Our Selantic® tethers comply to key international standards. All products are tagged appropriately and backed by extensive production process control documentation.

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Cortland is a global designer, manufacturer, and supplier of technologically advanced ropes, slings, and strength members. Collaborating with customers, our team uses its experience in high performance materials and market knowledge to transform ideas into proven products.

For more than 35 years, our custom-built solutions have been developed for work in the toughest environments and to overcome some of the world's greatest challenges. They consistently enable our customers to meet the demands of the aerospace, defense, research, subsea, marine, and energy industries.

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