

Digitized Terminations for Large Diameter Fiber Ropes



In today's environment, heavy industries are pushed to swiftly reduce cost while managing associated risk. Digitization of high-value assets and operations are key to achieving both.

As an example, offshore renewables, particularly the FOW sector is emerging as the new revenue driver for fiber rope in the coming years. Economics are driving the need for larger turbines with the supporting structures carrying much different loading profiles than traditional offshore O&G platforms. The need to optimize and monitor the mooring system is critical for success.

Another example is fiber rope support pendants used on large crane booms, mining shovels and dragline applications. Again, managing risk is key and failure in these examples is unacceptable.

Assuring any critical asset is fit for use can only be achieved by continually collecting DATA and using information to make logical decisions on the condition of the asset. Realtime digital health monitoring reduces the need for routine inspections and maintenance of high cost and hazardous operations, while moving towards making decisions that are DATA DRIVEN – “only intervene if needed or predicted.”

We are in a unique time where big energy and O&G companies are pushed to innovate quickly and take a new level of risk to meet short-term sustainability demands. The offshore renewable energy race is won or lost on the ability to optimize system cost and manage risk. All major stakeholders of these systems need DATA to drive Levelized Cost of Energy (LCOE) down while managing the exposure risk of large-scale offshore deployment.

Applied Fiber has focused over ten years of R&D on advanced intelligent termination technology – turning terminated ropes into a digital instrument with entirely new capability for measuring, tracking, and managing high-value assets and operations. We are excited to offer these types of technologies to our licensed rope partners to help propel the fiber rope industry forward in existing and emerging markets.

For more information visit: [Applied Fiber's Website](#)