AIS

Subsea

Cable protection repair system

Retrofit system to repair broken cable protection system

The cable protection repair system (CPRS) can be deployed where an existing cable protection system (CPS) has structurally failed resulting in an exposed cable or where the CPS has slipped from within the J-tube which will result in the cable being exposed. In both cases this leaves the cable unprotected against over bending and wear in the aggressive subsea environment, causing further damage at the site of failure.



Cable protection repair system

AIS' CPRS is an innovative design which has been developed to strengthen existing or repair failed cable protection systems for offshore wind farm power cables in J-tube applications.

This will protect the power cable, which in turn will enable the turbine to continue to function for the rest of its design life.

The CPRS takes the form of a dynamic bending limiter. It has a split design consisting of two half shells which are placed over the bellmouth and covers the broken section of the CPS. AIS use our 30 years of knowledge and expertise in the Oil & Gas industry to provide a bend limiter that provides 360-degree bend protection, to prevent any further damage to the cable.

The CPRS can be installed in-situ subsea with diver assistance without the need to remove the existing cable or damaged CPS components. It can be designed to interface with multiple third-party cable protection systems and is manufactured from API 17L certified material.

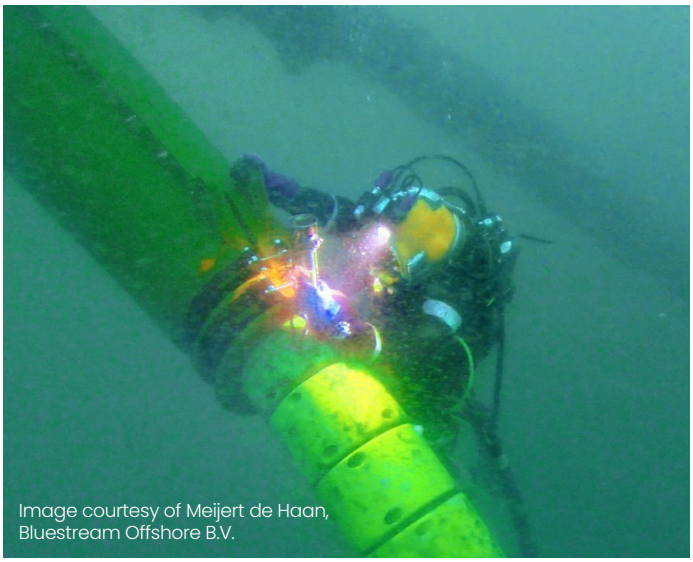


Image courtesy of Meijert de Haan, Bluestream Offshore B.V.

Benefits

- Can be installed in-situ without the need to remove the cable or existing CPS systems
- Bespoke custom design to interface with multiple third-party cable protection systems
- API 17L certified material
- All metal work is covered with sacrificial cathodic protection
- Maintain the manufacturers recommended minimum bend radius (MBR) for the life of the project
- Relatively low submerged weight for ease of handling
- Easily extendable and suitable for any diameter
- Lightweight, quick, easy and safe for a diver to install
- Protection from over bending and buckling
- No maintenance required
- Marine grade polymers and corrosion resistance incorporated

Applications

- Reinforce an existing CPS or repair a failed CPS
- Wind turbine generators
- Offshore substation platform





For further details about our products or services, please contact us:

t: +44 1695 712000 **e:** info@aisltd.com **w:** aisltd.com

© Copyright 2026 Advanced Innergy Limited

376V2.2026.10.26