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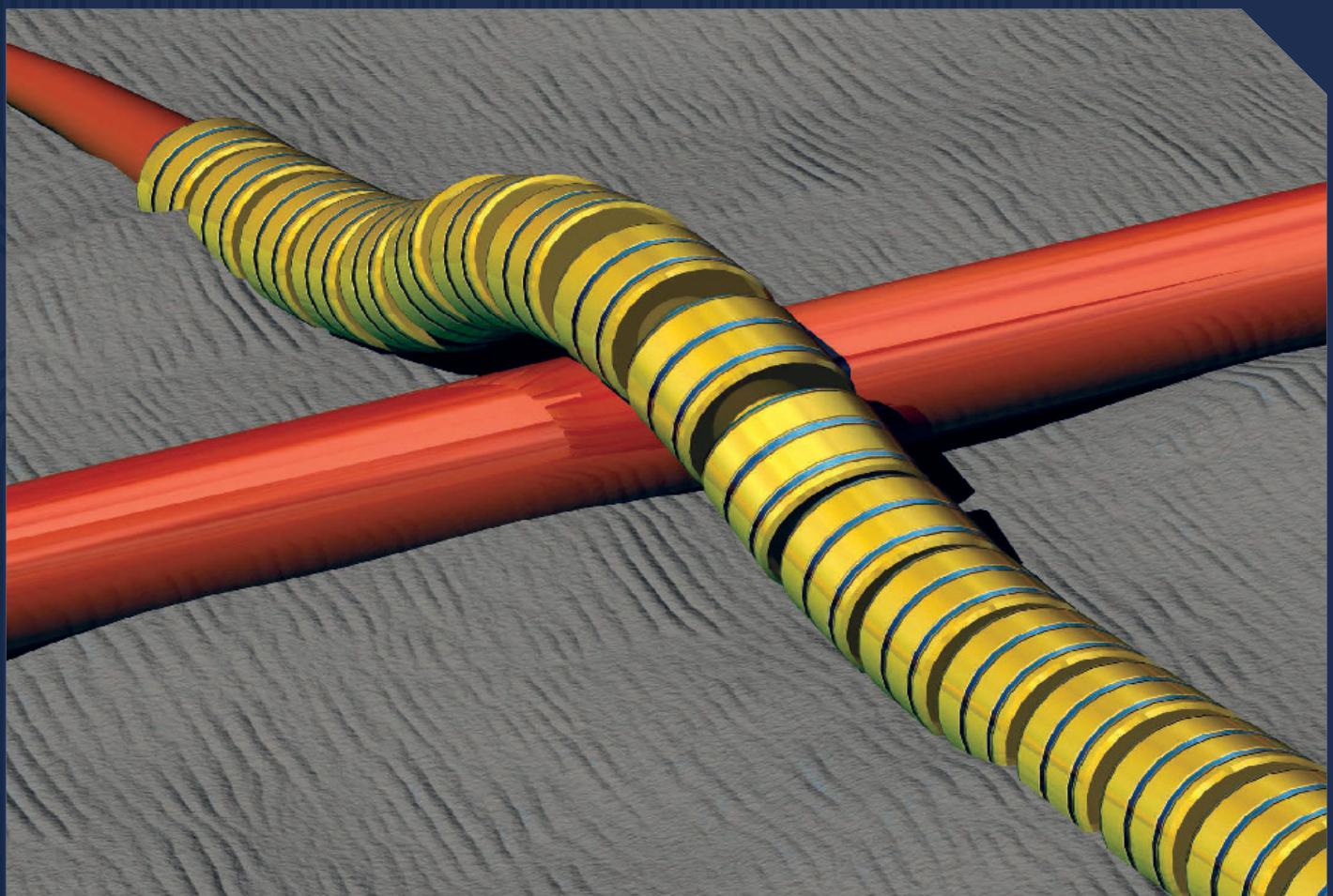
Subsea

Polyspace

Cable protection on the seabed

As more cables and pipelines are deployed there is an ever increasing chance that one cable will need to cross another. To minimise “noise” etc. being transmitted from one cable to another there is a requirement to have a minimum 350 mm standoff distance.

Polyspace was developed specifically to address the requirement to maintain a positive clearance between cables and existing pipelines at crossing points when laying subsea cables.



Subsea

Polyspace

Polyspace is a product specifically designed to generate a guaranteed 350 mm clearance between a cable and a pipeline. This system is flexible and comprises interlocking hollow marine grade High Density Polyethylene (HDPE) halfshells fastened around the cable by corrosion-resistant metallic banding. Internal cable clamps are used to lock the Polyspace mouldings onto the cable at regular intervals and specific leading and trailing bending stiffeners can also be included with the system to prevent the cable exceeding the recommended minimum bend radius at any time during the installation.

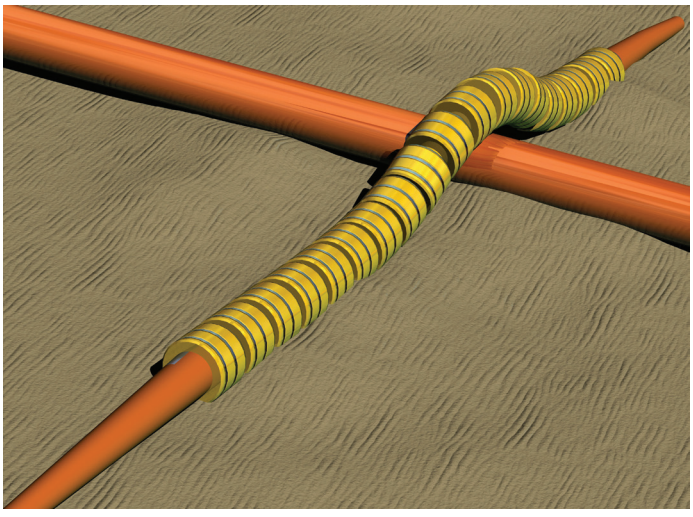


Benefits

- The HDPE half-shells have good impact strength and abrasion resistance whilst offering UV stability
- Each moulding is free-flooding and can be supplied with a ballast system to give optimal submerged weight to suit the situation
- The cable can be retrieved if required
- Polyspace is installed onto the cable as it is deployed from the vessel at the crossing location. The interlocking shells can achieve a bend radius of 1.5 m to suit most cableship sheaves, therefore providing a cost-effective one-hit solution at pipeline crossings where clearance is a requirement
- The system becomes an integral part of the cable, therefore negating additional problems associated with alternative methods, which are expensive, time consuming and difficult to place accurately
- No pre-lay operations
- Alternative/competing solutions include rock dumping/ concrete mattresses and subsea "bridges". For all of these methods installation must take place before the cable can be installed and need expensive vessel time to construct, especially in deep water
- Polyspace is not water depth dependent as it is free-flooding

Applications

- Power cables
- Fibre optic cables
- Hoses
- Flexible flowlines



Cable crossing on the seabed

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39IV2.2026.10.26