



# Protectorshell

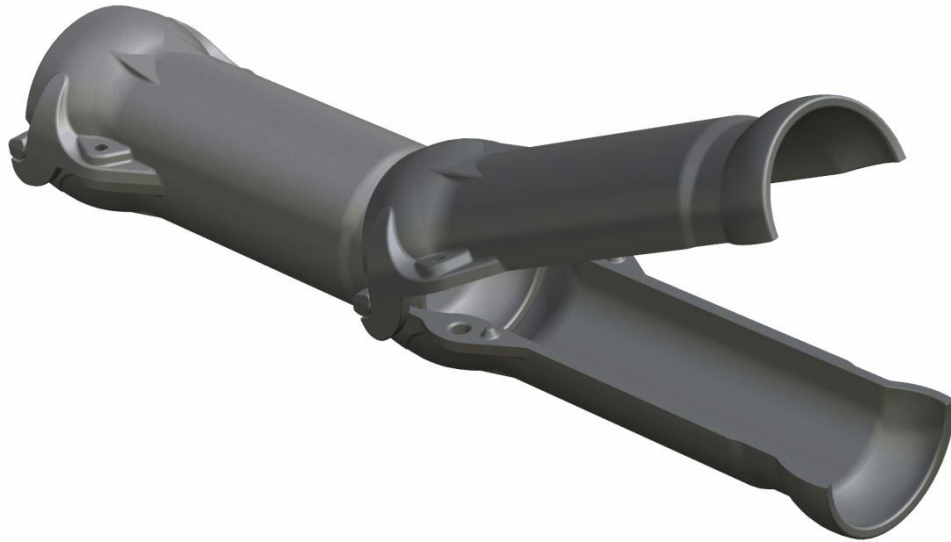
**Protectorshell Articulated Pipe** has been developed to provide shallow water abrasion and impact protection for submarine cables.

**Protectorshell** is unique in that it clips together, avoiding the nuts and bolts of traditional articulated pipe. This clip together feature allows quick real time application during laying and a much simplified diver installation onto pre-laid cables.

The **Protectorshell** system comprises two different cast segments which are identified as uppers and lowers. Each successive pair of segments clips over and retains the end of the preceding pair.

The **Protectorshell** stability range is designed with a target unit weight while still maintaining all the features expected of articulated pipe.

A wide range of adaptors and attachments are available for use with **Protectorshell** Articulated Pipe. These adaptors and attachments allow the reversal of application direction and interfacing with other cable protection measures such as directionally drilled pipes, pipe flanges and concrete abutments.



## PS127/500/Stability 60

### Specifications

|   |  |
|---|--|
| Segment Length - Overall                | 562mm  |
| Effective Installed Length/segment pair | 500mm  |
| Minimum Internal Diameter               | 127mm - for cables up to 115mm diameter  |
| Maximum External Diameter               | 248mm  |
| Wall Thickness                          | Minimum 11mm, Typical 15mm   |
| Material                                | Ductile Iron to ISO 1083   |
| Tensile Strength / Elongation           | 400MPa / 15% elongation  |
| Impact Resistance                       | >7.5kJ   |
| Minimum Bend Diameter                   | 4.0m   |
| Weight per Segment                      | 30.0kg   |
| Weight per installed metre (air)        | 60.0kg   |
| Weight per installed metre (water)      | 52.5kg   |
| Fasteners                               | M12x50 Bolt and M12 Nyloc Nut – Material: Stainless Steel G316/A4<br>Recommended usage: 1 pair per 10 metres of installed pipe |

#### Protectorshell SL

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