



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.

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.



PS210/500/10

Specifications

Segment Length - Overall	573mm
Effective Installed Length/segment pair	500mm
Minimum Internal Diameter	210mm - for cables up to 192mm diameter
Maximum External Diameter	350mm
Wall Thickness	10mm
Material	Ductile Iron to ISO 1083
Tensile Strength / Elongation	400MPa / 15% elongation
Impact Resistance	>7.5kJ
Minimum Bend Diameter	2.0m
Weight per Segment	36.1kg
Weight per installed metre (air)	72.2kg
Weight per installed metre (water)	65.9kg
Fasteners	M16x70 Bolt and M16 Nyloc Nut – Material: Stainless Steel G316/A4 Recommended usage: 1 pair per 10 metres of installed pipe

Protectorshell SL

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