



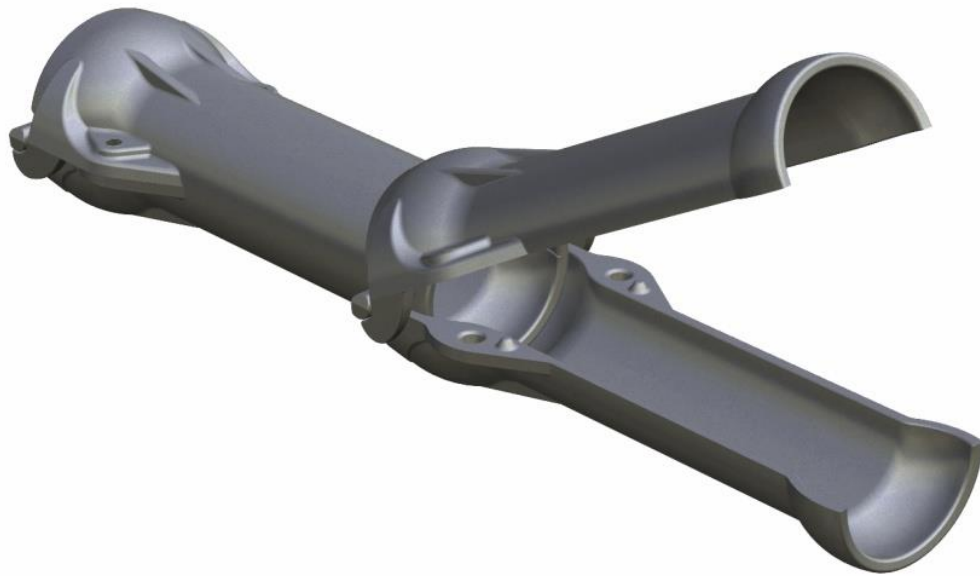
Protectorshell

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.



PS100/478/09

Specifications

Segment Length - Overall	530mm
Effective Installed Length/segment pair	478mm
Minimum Internal Diameter	100mm - for cables up to 88mm diameter
Maximum External Diameter	198mm
Wall Thickness	9mm
Material	Ductile Iron to ISO 1083
Tensile Strength / Elongation	400MPa / 12% elongation
Impact Resistance	≥7.5kJ
Minimum Bend Diameter	4.0m
Weight per Segment	14.6kg
Weight per installed metre (air)	30.5kg
Weight per installed metre (water)	26.7kg
Fasteners	M12x50 Bolt and M12 Nyloc Nut – Material: Stainless Steel G316/A4 Recommended usage: 1 pair per 10 metres of installed pipe

Protectorshell SL

C Regata Cutty Sark No 21 4 IZ 15002 La Coruña, Spain
T: +34 8 8124 1115 F: +34 8 8192 4978

www.protectorshell.com

MS Diversified Services Pty Limited

PO Box 150 Maroubra NSW 2035 Australia
1135 Anzac Parade, Matraville, NSW 2036 Australia
T: +61 2 9694 1004 F: +61 2 9314 3526

