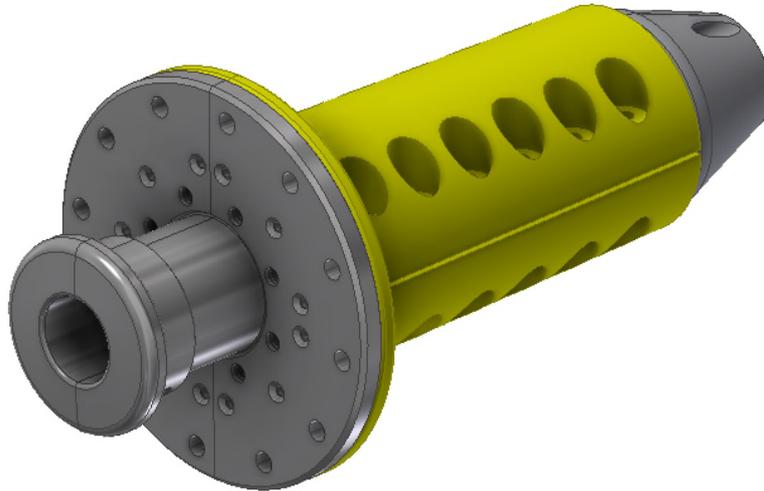


CABLE CENTRALIZER



DESCRIPTION:

Cable Centralizer is studied by PCS Italiana to ease submarine cable insertion into I-tube or J-tube bell-mouth and avoid that any damage is affecting cable sheaths or riser walls during pull-in activities.

Design provides with a suitable coupling flange to accommodate PCS-Bend Restrictors thus delivering a complete protection to the cable from bell-mouth exit until Client required protection distance is reached.

Centralizer material composition avoids the risk of magnetic fields as no metallic parts are in contact between cable and riser.

Basic supply foresee SS316L but according to requirements it can be foreseen also Superduplex.

Centralizer is designed and manufactured following "Input data from Clients" to deliver a tailored product.

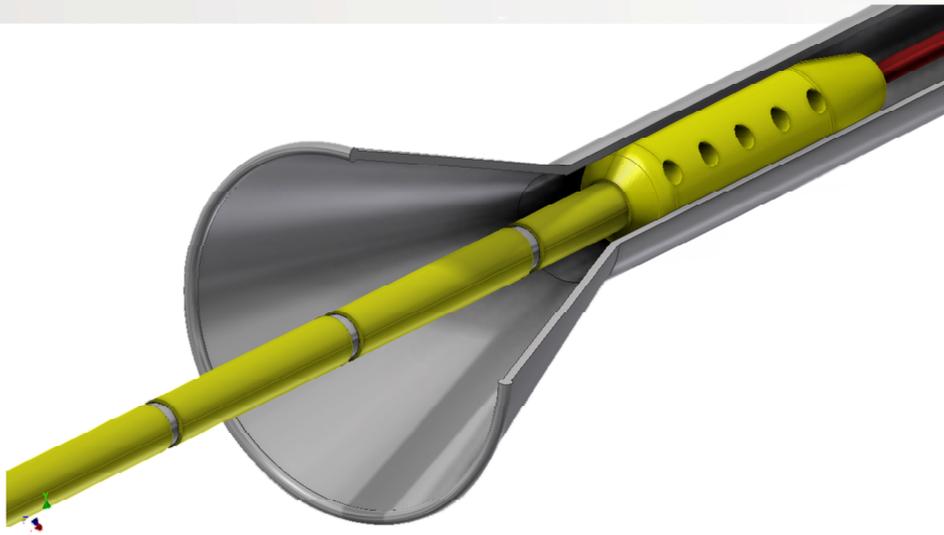
MATERIAL:

- Inner flanges and body : SS316L
- Centering elements : Soft and Hard
Polyurethane
- Bolts & Nuts : AISI 316 A4

ENTRY DATA FOR DIMENSIONING:

- Cable details and j-tube details

J-TUBE CENTRALIZER WITH PCS-DUCT



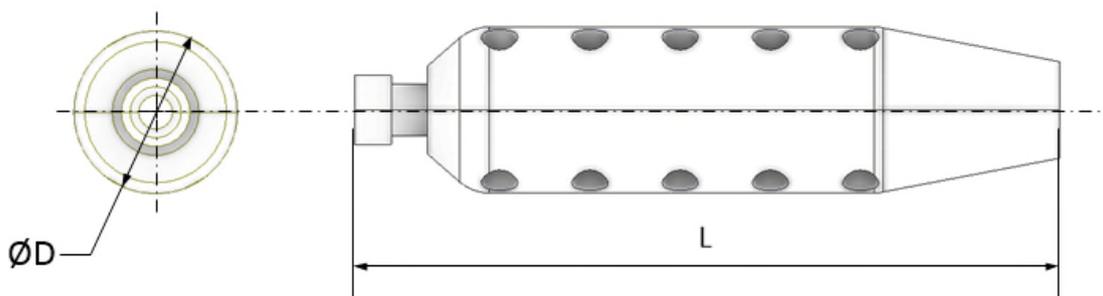
DESCRIPTION:

J-Tube Centralizer is studied by PCS Italiana Group to ease submarine cable insertion into j-tube bell-mouth and avoid that any damage is affecting cable sheaths or j-tube walls during the pull-in activities.

Application of the centralizer is studied to avoid use of divers thus reducing installation costs and risks and design provide a suitable positioning for Pcs-Duct so to deliver a complete protection to the cable from the exit of j-tube until the protective location required by Clients.

Centralizer material composition avoids the risk of magnetic fields as no metallic parts are in contact between cable and j-tube.

Centralizer is designed and manufactured following "Input data from Clients" to deliver a tailored product for the specific application.



MATERIAL:

- Main Body: Polyurethane
- Bolts & Nuts: AISI A4/70

INPUT DATA FROM CLIENTS:

- Cable diameter
- J-Tube drawing