

CONDUCTOR CENTRALIZERS



Conductors for fixed platform wells are typically installed through guide-cans, which are part of the platform structure and placed at regular intervals between the well head and the seabed. Clearance of the conductor within the guide-can is required for installation but is not desired post installation. Matrix Composites & Engineering supplies Conductor Centralizers that are bonded to the conductor, centring the conductor within the guide-cans.

The Conductor Centralizers are moulded from Polyurethane and perform several critical and non-critical functions:

Greater linear coverage on the flow line due to LGS's® low profile

- Limiting the lateral movement of the conductor improves the fatigue life of the conductor and surface flow line connections. Improper centralization can and has led to reduced fatigue life of flowline components, resulting in loss of well control, environmental spill impact, lost production and loss of assets.
- Vibration reduction when wave action results in impact between the conductor and guide-can. The Polyurethane reduces the impact force amplitude, extending fatigue life and minimizing vibrations transferred to working and living quarters.
- Continuous relative movement between platform and conductor can be a source of wear & tear on the conductor as well as noise pollution. Polyurethane centralizers eliminate metal to metal contact and the noise associated with that.

APPLICATION

- Conductor Centralization between wellhead and seabed.
- Limit lateral conductor movement
- Conductor Isolation from platform structure.
- Retrofit Centralization

ADVANTAGES

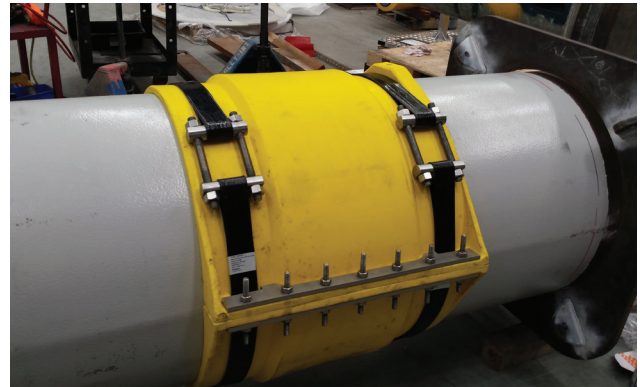
- Fatigue life improvement through minimizing lateral conductor movement
- Reduced impact amplitude / fatigue from wave action.
- Eliminate contact between Conductor and Platform Jacket
 - Noise Reduction
 - Reduced wear/tear on conductor/coating
- Centralizers may be Pre-installed
- Modular to suit application
- Non-Metallic construction minimizes maintenance requirements
- Light weight robust construction

The Polyurethane material used in manufacturing the centralizers is specifically formulated for subsea applications and may be bonded to bare conductor pipe, or to the protective coating applied to the conductor. These centralizers are commonly pre-installed on the relevant conductor joints and do not add rig time.

This non-metallic product assures maintenance free performance of the centralizer throughout the lifespan of the platform. Centralizers can be supplied to suit a wide range of conductor sizes and guide-can dimensions. As they are modular, multiple centralizers may be placed to cover uncertainty in space out of conductor joints relative to the guide-cans.

For operations where the space-out of the conductor joints is undecided, or a conductor joint needs to be replaced, Matrix also provides a contingency centralizer that may be installed as required on any conductor joint. The contingency centralizer consists of two halves bolted together around the conductor. Elastomeric material on the internal diameter provides reliable holding forces. Designs are slip tested to ensure the appropriate holding force is achieved.

In addition to subsea type centralizers, Matrix provides additional centralization solutions to suit platform deck penetrations, both new build and retrofit.



LARGEST HYPERBARIC CHAMBER IN THE SOUTHERN HEMISPHERE

ITEM	MATERIAL	FEATURES	SIGNATURE
Centralizer	90A Polyurethane	High Performance Elastomer with good impact and abrasion resistance. Long term use in water/brine	