

Bridle Systems

Plug-and-play power & signal link solutions

Amphenol
Energy Technologies

Amphenol Energy Bridle Systems provide a robust, plug-and-play method for transferring power, control, instrumentation, communications, and fiber between platforms, vessels, and industrial assets operating in harsh environments.

The application challenge

Long cable runs in offshore, marine, and industrial environments are exposed to movement, abrasion, weather, and mechanical loading. Traditional loose cables are difficult to install, hard to maintain, and often lead to downtime or safety concerns.

How Bridle Systems solve the problem

Bridle Systems group multiple power and signal loops into a single supported assembly. Engineered support blocks and tensioned wire rope control load distribution, reduce cable strain, and extend service life while simplifying installation.

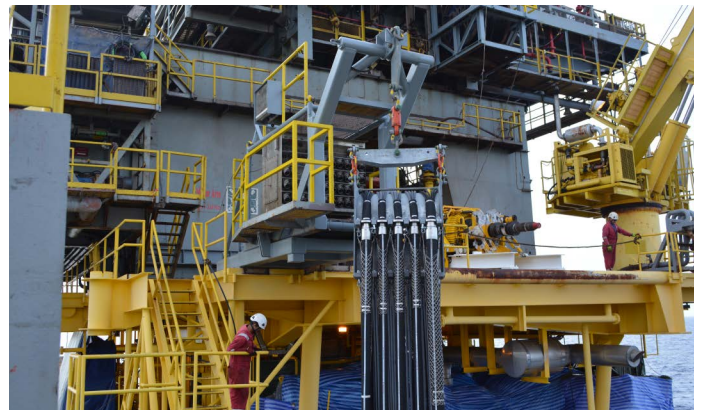
Amphenol Energy Technologies offer two types of Bridle Systems, a Standard Bridle and a Ruggedized Bridle which is patented. The difference in configurations are as follow:

Standard Bridle



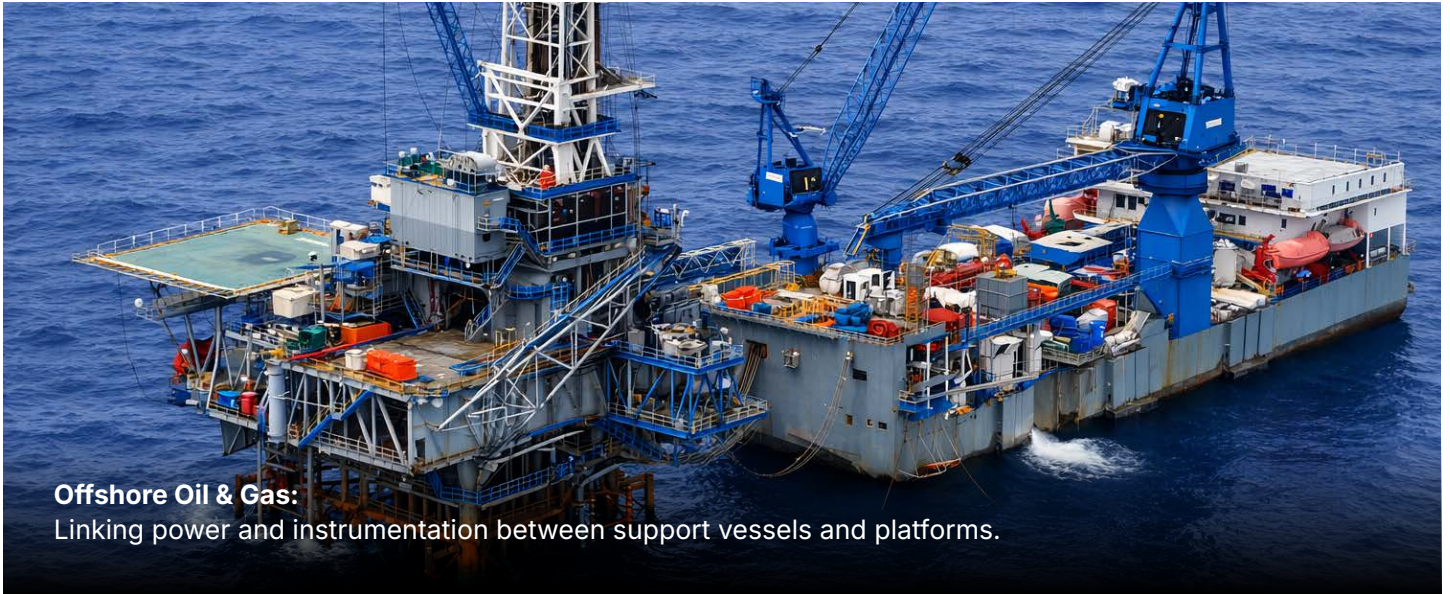
- Custom configured cables to match your specific power, control or signal needs.
- Support blocks evenly spaced along the length.
- Secured by tensioned wire rope and suspension blocks at either end.
- Connectors pre-fitted for immediate deployment.

Ruggedized Bridle (patented)



- Individual loops of equal length for power and instrumentation.
- Each loop is individually supported and protected, banded at intervals.
- Connectors pre-fitted for immediate deployment.
- Built for harsh environments and easier maintenance (loops can be removed separately).
- Ruggedized for marine and offshore conditions.

Applications



Offshore Oil & Gas:
Linking power and instrumentation between support vessels and platforms.



Port & Maritime Infrastructure:
Shore-to-ship power and communications cabling that withstands saltwater, motion and handling.

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