

PLUG MARINE high-current plug-in system from PFISTERER receives DNV-GL certification

Winterbach, Germany - July 2024 - With PLUG MARINE, PFISTERER offers a DNV-GL-certified high-current connection plug system for the electrical connection of power components, energy storage systems, transformers, converters and even ship propulsion systems. These robust connectors have demonstrated their value and reliability through years of continuous use in both trains and wind turbines. The certification now also confirms their suitability for use on ships and other offshore installations.

PLUG is a robust single-pole plug-in system from PFISTERER for the safe transmission of high currents. The power spectrum ranges from 400 to 1,250 amps at 1.8 to 3.6 kV DC and AC. The system has proven itself for decades in numerous rail applications such as high-speed and long-distance trains as well as regional trains. It is also used in series production in wind turbines with an output of up to 15 MW – from the point of energy generation to the mains transformer connection. DNV-GL certification now also proves its suitability for ships, offshore platforms and floating wind turbines. PLUG MARINE meets all requirements for dielectric strength, vibration stability, fire resistance and corrosion protection. It is also characterized by its low weight, compactness and simple installation. Thanks to the robust design, maintenance-free operation is guaranteed.

Safe and fast installation of electrical marine components

The robust PLUG MARINE plug-in system offers an optimum pluggable alternative to hardwiring electrical components on ships – especially for higher performance specifications. These include electric motors and turbines as well as generator connections, switchgear, transformers and battery systems. PLUG MARINE is designed for aluminum and copper cables with and without field shielding as well as different conductor cross-sections and is available in straight and angled versions. The option of pre-assembling the electrical systems simplifies and speeds installation as well as maintenance and repair on site. At the same time, the PLUG MARINE plug-in system offers touch-safe protection for employees on board a ship or a platform and wind turbine during operation.

"The DNV-GL certification for PLUG MARINE confirms our quality efforts and is the prerequisite for the broad use of the system in the offshore sector," explains Dr. Thomas Schilla, Business Development Manager at PFISTERER. "It has also long since proven its efficiency: The system has been used for several years at sea to connect mobile energy supplies for air-conditioned shipping containers, as well as in powerful POD ship drives."

Use in alternative energy systems and DC power distribution systems

The marine industry has set itself the task of sustainably reducing CO₂ emissions. It is also working on ambitious projects in many areas. "We are convinced that the PLUG MARINE system can make an important contribution to modular, scalable

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The DNV-GL-certified PLUG MARINE connector system from PFISTERER provides the shipbuilding industry with a robust and reliable contact system for currents up to 1,250 A and voltages up to 3,600 V. The pre-assembled cables with plug connectors significantly reduce the assembly work in the shipyard and during system tests: The electrical connection is established within minutes.

concepts as part of innovative cabling systems for AC or DC networks and power components. We are also happy to pass on our experience from the wind and rail sectors," says Dr. Thomas Schilla.

About PFISTERER

In 1921 Karl Pfisterer founded his factory for special electrical products in Stuttgart with the aim of improving the world of power transmission. The PFISTERER Group has pursued this goal of quality and technological leadership for more than 100 years. Today, PFISTERER is one of the world's leading specialists and system suppliers for energy infrastructure – with a complete range of cable accessories, overhead line technology and components along the entire transmission chain from power generation to consumption. With state-of-the-art manufacturing processes and 1,200 employees at 19 international locations and 5 factories, PFISTERER not only connects the power grids of today and tomorrow, but also makes an important contribution to a sustainable and secure energy infrastructure.