



PLUG

Plug-In System for High-Current Applications

PLUG

High-Current Connections Fitted Simply and Securely

Plug-in solutions are in increasingly high demand for electrical machines and plants, as well as systems for power distribution and transport, in low and medium voltage applications. The advantages are obvious: short installation times, a touch-proof design, and reduced construction space compared to conventional connections. PFISTERER combines all of these benefits with nearly a century of experience in contact technology. The outcome: reliable, durable contacts. This is just one reason why the PLUG system has become an indispensable feature of modern train networks and wind power plants.

Reliable Contact Throughout the Service Life

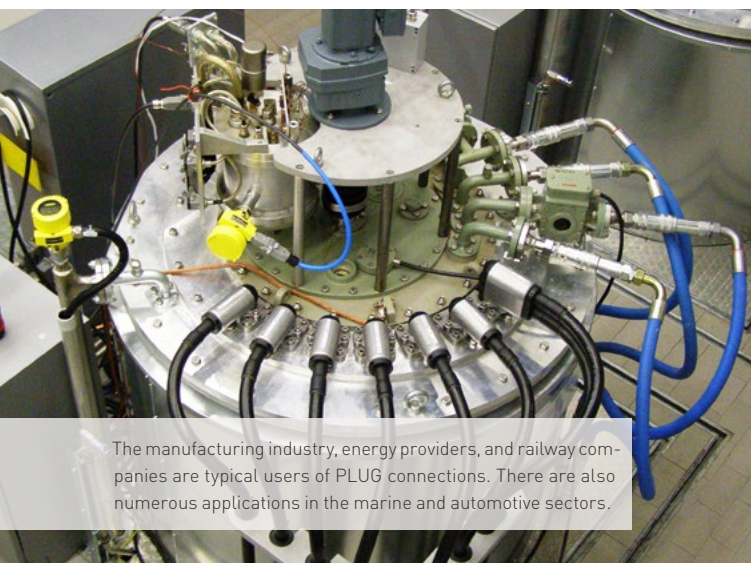
Premium contact materials and PFISTERER's proven line contact technology with multiple connections guarantee consistently high quality for power transmission. A steel spring ensures a constant, high contact force. At the same time, the high short-circuit strength means power reserves are available in the event of a fault.

Simple, Quick, and Secure Installation

The PLUG system reduces your generator, converter, and transformer connections to a single plug-in solution. The electrical contact system is protected against environmental influences and contamination, resulting in durable points of contact regardless of the installer.

The PLUG system also shortens the time for initial installation – an essential factor in cutting-edge mass-scale production. During later operation, individual system components can be replaced efficiently in minimal time. Expensive downtime or idle time is avoided – across the lifetime of the equipment.

The coding of the pluggable connections prevents connection errors. Each plug can only be connected to its matching socket. No matter what kind of installation or maintenance work is taking place, all connections are always made correctly.



The manufacturing industry, energy providers, and railway companies are typical users of PLUG connections. There are also numerous applications in the marine and automotive sectors.

PLUG Saves Space

The PLUG system invariably saves valuable construction space: The typical terminal box is no longer needed and you can achieve a more compact overall design. And that's not all: The test and system interface which is created when you install the PLUG socket is quick and easy to connect – for even bigger time and money economies.



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One Plug for Two Cables

Thanks to the 2-to-1 connection technology, two cables can be connected to one high performance contact. That not only reduces the number of connections; it also saves space and money. Alternatively, our 2-to-1 technology can be used to loop through the power line.



The PLUG system interconnects the generator, individual tower segments, converter, and transformer of an offshore wind farm in an overall electrical system.

Benefits

- Simple, quick installation
- No need for a terminal box
- Short testing and downtimes
- Enables cutting-edge mass-scale production
- Constant high contact quality
- High short-circuit strength
- Coding prevents connection errors
- Wide range of accessories for shielding and grounding connections

PLUG in Numbers

- Voltage: 1 to 4.4 kV AC
- Current: 400 A to 1250 A
- Conductor cross-section: 25 to 300 mm²
- Conductor material: copper, aluminum



PLUG is also used in train networks to connect traction transformers, air conditioners, traction converters, battery systems, and car-to-car connections.