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Amphenol Industrial Operations Robust Floating Mate Connector Series Corrects Misalignment During Blind Mating

Miniaturized, high current connectors with integrated signal and power transmission

Technical Specifications

- High voltage applications up to 1500VDC
- Power rated to 120A
- Integral guide pins improve alignment during blind mating, tolerate misalignment of up to 2.4 mm, floating mount reduces fatiguing stress when mating or unmating
- Features RADSOK Technology
- Removeable power and signal pin by tool to provide reworkable option
- Meets UL94 V-0
- RoHS REACH compliant
- UL 4128 and TUV 2PFG2740 1500VDC compliance

Endicott, NY January 2026 – Amphenol Industrial Operations, a global leader in interconnect systems, has expanded its compact Floating Mate Connector Series with three models that [integrate power and signal transmission, while reducing misalignment during blind mating.](#)

Optimized for compact power applications handling up to 120 A, these rugged, high-current floating mate connectors incorporate Amphenol's industry-leading RADSOK technology, providing exceptional power terminal performance. The new interconnects are ideal for demanding applications in energy storage systems (ESS), electric vehicles (EV) and plug-in hybrid vehicles (PHEV).

Austin Cronk, Americas Product Manager of Amphenol Industrial Operations, noted, "As power demands in the clean energy sector increase, commonly exceeding 100 amperes, reliable, high power density interconnects that fit into compact battery storage systems are needed. Our expanded Floating Mate Connector Series now offers variants that integrate power and signal into one miniaturized component and reliably operate in modern high-current applications."

Three new floating mate connectors offer a range of power and signal options:

- 2+12: 2 power pins (1,000 VDC), 12 signaling pins (200 VDC)
- 4+12: 4 power pins (1,000 VDC), 12 signaling pins (200 VDC)
- 4+12 Mini: 4 power pins (1,500 VDC), 12 signaling pins (300 VDC)

Guide pins on the connectors help to correct misalignment (up to 2.4 mm) during blind mating.

Optional removal tools for both the power and signal pins as well as an optional floating mount that reduces fatiguing stress on connectors during blind mating are available.

Each connector in the series is rated for more than 100 mating/unmating cycles, with an operating temperature range of -40°C to 125°C and crimp termination. The series is certified to UL 4128, TUV 2PFG2740 and IEC 61984 and has a 94 V-0 flammability rating.

For more information, please visit <https://amphenol-industrial.com/products/floating-mate-connector-series/> or e-mail Austin Cronk, acronk@amphenol-aio.com.

Get our updates: <https://www.linkedin.com/company/amphenol-industrial>

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EDITOR'S NOTE: Headquartered in Endicott, N.Y., with global manufacturing, sales and marketing locations, [Amphenol Industrial Operations](#) specializes in delivering a comprehensive range of high-reliability power and signal connectors along with comprehensive interconnection systems specifically designed for industrial applications.

Our solutions cater to diverse industrial sectors, including, but not limited to, alternative energy, heavy equipment, energy storage, factory automation, eMobility, rail mass transit, datacom/telecom, and power distribution.

Our product portfolio encompasses power interconnects utilizing our trademark RADSOK® contact technology and ruggedized, military-derivative cylindrical connectors, like threaded (SAE AS50151), PT (MIL-DTL-26482) and GT reverse bayonet styles as well as assemblies and harnesses using these and other industry standard interconnects.

With a dedicated team of over 900 skilled professionals, backed by industrial certifications such as ISO9001 and IATF 16949, Amphenol Industrial Operations consistently meets the highest standards of quality and performance.

Amphenol Industrial Operations proudly operates as a business unit of the Amphenol Corporation, one of the world's largest designers, manufacturers and marketers of electrical, electronic and fiber optic connectors and interconnect systems, antennas, sensors and sensor-based products as well as coaxial and high-speed specialty cable. For more information, visit www.amphenol.com.