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**Amphenol Industrial Operations New Power Connectors Ensure Reliable Electrification under Harsh Environments**

High-performance TS1 Series combines rigid metal shell and latch with 360° EMI shielding

Technical Specifications

- Enhanced reliability with full metal shell and metal latching mechanism
- 360° shielding for superior EMI protection
- High voltage, high current capacity for electrified and hybrid applications
- Meets IP6K9K; USCAR2 compliant; UL4128 certified

Endicott, NY December 2025 – Amphenol Industrial Operations, a global leader in interconnect systems, now offers the TS1 Series, a high-performance industrial power connector developed to [meet the growing demand for electrification](#), which requires robust, reliable power connectors capable of performing under harsh environmental conditions.

Ty Yesensky, Product Development Manager - Americas of Amphenol Industrial Operations, noted, “Electrification, regardless of the industry, requires connectors that must endure frequent mating, provide full EMI shielding, and offer reliable shock resistance as well as handle sustained high-power flows. These challenges underscore the need for specialized high-power connectors, like our new TS1 Series, which is designed for durability, safety, and performance.”

The new series is ideal for high-power electrified and hybrid applications with high thermal, mechanical and electrical stresses, such as electric vehicles and manufacturing systems across the industrial, transportation and commercial sectors and energy storage systems, like those found in data centers and power transformers.

Engineered for design flexibility, the TS1 Series offers versatile termination methods for receptacles and flexible wire routing options for plugs, making equipment design easier and cable management more efficient. The series, which comes in 8.0 mm and 12.0 mm contact sizes, can be used in many high voltage, high current applications.

Advanced features that enhance connector performance include a rigid metal shell and latch, 360° electromagnetic interference (EMI) shielding, and an operating voltage of 2,000 V (12.0 mm) or 1,500 V (8.0 mm). The TS1 Series provides a wide current capacity range from 200A to 450A and a cable range of 35 mm² to 120 mm², with individually shielded wire.

The robust connectors are UL 4128 certified, USCAR2 compliant, meet IP6K9K for environmental resistance and have an operating temperature range of -40°C to +125°C. The TS1 Series can endure 500 times mating cycles and withstand 20G vibration with rated current.

For more information, please visit <https://amphenol-industrial.com/products/ts1-series> or e-mail Ty Yesensky at tyesensky@amphenol-aio.com.

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-30-

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.