



Press Release

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PA&E Announces New Hermetic Aluminum 38999 Mateable Connector

New Ultra Lightweight, Hermetic Connector Now Available for a Variety of Applications

Wenatchee, WA – June 11, 2009 -- Design engineers in defense, space, aviation, and other industries, where light weight and superior hermetic performance are key considerations, have a new option, following PA&E's release of its new aluminum circular 38999 mateable DC connector.

Built to the same rugged standards as the company's other robust, MIL-Spec compliant interconnect products, this new, connector combines PA&E's patented [Kryoflex®](#) ceramic-to-metal sealing technology with beryllium copper CDA alloy 172/173 contacts for superior electrical performance in a weight-saving all-aluminum shell.

"This new aluminum 38999 mateable DC connector is unique in the market," said Shaun McGuire, PhD, vice president of engineering at PA&E. "We can now offer our customers a 38999 mateable connector that is up to 60% lighter than our standard stainless steel version and still provides the reliable hermetic performance we're known for."

PA&E's new aluminum 38999 mateable DC connector has an operating temperature range of -65°C to 155°C and a leak rate of less than 1×10^{-9} cc/sec helium at one atmospheric differential pressure. It provides insulation resistance of more than 5,000 megohms at 500 VDC during dielectric withstanding voltage testing and exhibits no evidence of breakdown or flashover when tested IAW MIL-STD-1344, Method 3003. The connector accepts 24 to 30 AWG solid or stranded wire.

The new aluminum circular 38999 mateable hermetic connector from PA&E can be designed to be laser welded into aluminum housings. Laser welding is a non-contact,

high-precision welding process that exhibits an extremely small heat-affected zone, ensuring components or electronic packages are exposed to the least-hostile welding environment possible. The connector is also available in a jam-nut style.

Besides this new aluminum-shell connector, PA&E custom manufactures circular and rectangular DC connectors in a number of configurations including options with standard stainless steel shells that use both Kryoflex ceramic-to-metal and glass-to-metal sealing processes.

For more information on this new, lightweight aluminum 38999 mateable connector from PA&E or to learn more about the company's other [interconnect products](#), [EMI filters](#), and [integrated hermetic electronic packaging](#) capabilities, contact PA&E at 509-664-8000 or visit us at <http://www.pacaero.com>.

PA&E, Inc, a member of the Souriau Group, is an integrated manufacturing company, specializing in technically demanding ceramic and metal components and assemblies, hermetic connectors and advanced micro-electronic hermetic packaging for global leaders in the defense, space, medical and commercial industries. PA&E is ISO 9001:2000/AS9100 Rev B certified and NADCAP compliant.

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