

Junkosha showcases collaborative cable engineering offering with new 1 mm pitch high-flex cable for semiconductor equipment manufacturers

SEMICON West chosen to demonstrate collaborative approach to developing application-specific cable solutions for space-constrained semiconductor equipment manufacturers

SEMICON West booth: Hall A/464

October 12th, 2026 – Junkosha, a specialist in advanced cable solutions for semiconductor manufacturing equipment, has chosen this year's SEMICON West event to announce its Junkosha® Super Low Outgassing Cable portfolio with a new 1 mm pitch configuration.¹ Custom engineered to meet the semiconductor industry's growing demand for precise performance in a flexible and lightweight package, Junkosha is addressing the industry's challenges around space constraints and motion applications by strengthening its focus on collaborative cable engineering. Working directly with semiconductor equipment manufacturers, Junkosha develops, tests and refines cable solutions around their specific application requirements.

Semiconductor manufacturing equipment provides particularly demanding environments for cable integration. For ultra-high vacuum chambers in particular, the challenges are specific. Available space can be extremely limited, while cable routing, movement and mechanical interfaces are often already established as part of the equipment design. In vacuum chamber environments with moving parts, such as linear stages integrated with motors and encoders, a cable that is only marginally wider than the standard design can create significant challenges. It may require a different routing arrangement, introduce a second cable layer or require changes to mechanical components and existing assembly tooling.

This approach is demonstrated by the new 1 mm pitch Junkosha Super Low Outgassing Cable configurations, which have been engineered for complex high vacuum environments while minimizing the need to redesign surrounding equipment. The cables have achieved a flex life of 30 million cycles at a 70 mm bending radius in our test facility, making them the ideal choice for high-flex applications. This specialized cable design was tested in collaboration with customer engineering teams to ensure it meets equipment requirements, with supporting durability data demonstrating its suitability for demanding, repeated-motion applications.

The unique, customer focused approach also extends across the entire cable development and production process. Junkosha can support prototype quantities from 20 m, followed by typical minimum production order quantities of approximately 50 - 100 m. This provides flexibility for both new product launches and ongoing production maintenance, while also supporting the development of new equipment or evaluation of an alternative cable source without requiring a commitment to high production volumes at the outset. All of this translates to reduced maintenance and downtime while significantly lowering total cost of ownership.

¹ The new 1 mm pitch configuration varies depending on core size and other cable specifications.

“Developing the 1 mm cable construction was driven by a clear customer need,” adds Jason Davis, New Business Development for Junkosha. By combining the ability to manufacture narrower cable construction with application-specific engineering support, lower volume production capability and collaborative testing, Junkosha aims to make it easier for customers to evaluate an alternative cable source while minimizing disruption to established equipment designs.”

Junkosha will be exhibiting its new [Junkosha Super Low Outgassing](#) Cable solution at the SEMICON West exhibition from October 13-15, 2026. More information on Junkosha’s range of semiconductor solutions can be found [here](#).

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This release has been issued on behalf of Junkosha by Kredo Consulting Ltd. For further information please contact Andy Parker on andy@kredoconsulting.com or +44 (0) 1242 650573 or Sisitha Ndungane on sisitha@kredoconsulting.com.

Notes to Editors:

About Junkosha

Junkosha is a pioneer of sophisticated fluoropolymer application technologies across various sectors including semiconductor manufacturing, microwave interconnect and medical device components. With three operations in Japan, including its headquarters as well as sites in the US, UK and China, it is one of the best kept advanced technology secrets outside of Japan. The company provides a wide range of wire and cable products, including microwave interconnects, robot cables, high data rate cables, camera link cable assemblies, ultrafine coaxial cables and assemblies, cables for clean environments, and general wires and cables. Junkosha also offers tube and fitting products, including generic resin tubes, fluoropolymer tubes, high-barrier tubes, flexible multi-layered tubes, industrial hoses, degassing modules, heat-shrinkable tubes, and the market leading peelable heat shrink tubes. More information: <https://www.junkosha.com/en>