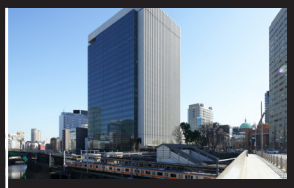
Junkosha
Medical Solutions

Junkosha®

Enabling Technology Innovators



Tokyo Business Center
23F Ochanomizu Sola City
4-6 Kanda-Surugadai, Chiyoda-ku
Tokyo 101-0062 Japan
P +81 3 3518 6520

Yamanashi Operations Center

Kasama Operations Center

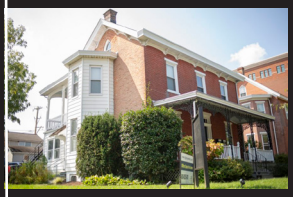
Osaka Sales Office

Junkosha USA Inc.
European Office
113 The Promenade
Cheltenham
GL50 1NW
UK
P +44 1242 248 703

Junkosha SOC / ATC Inc.

Junkosha STC Inc.

Junkosha USA Inc.
West Coast Office
2415 Campus Drive
Suite 140
Irvine, CA 92612
USA
P +1 949 825 6177



Junkosha USA Inc.
East Coast Office
120 S. Broad St.
Suite 2
Kennett Square, PA 19348
USA
P +1 949 825 6177

About Junkosha

Junkosha - A Trusted Partner for Innovation

Founded in 1954, Junkosha are pioneers of sophisticated fluoropolymer application technologies — advancing medical devices and other high-performance fields. The company provides cutting-edge products that contribute to the enrichment of society. By actively engaging with our customers, we offer more than just products – we provide tailored services to optimize processes, earning your trust every step of the way.

We are unified around our purpose: 'We create unsurpassed value to enrich society' and as our mission states, we 'Enable Technology Innovators'

At a Glance

Junkosha provides high quality solutions to more than 1500 companies across 47 countries and regions including the USA, Europe and Asia.

Junkosha has more than 700 associates in 9 locations across the USA, Europe, and Asia.

Junkosha is focused on building a global intellectual property network, with over 150 patents to date.

Junkosha holds ISO certifications for quality and environmental management systems, including ISO9001:2015, ISO14001:2015, ISO13485:2016

Junkosha has expanded its manufacturing footprint to a total over 92,000m^2 (approx. 1 million ft^2), boosting capacity for our medical portfolio.

As the most responsive partner for specialized high-performance polymer solutions, Junkosha works closely with our customers from product development through to commercialization. We are committed to being your number one partner by meeting your unmet needs and ultimately being easy to do business with.

Core Technology Introduction

Junkosha's strengths lie in customized production backed by our technological expertise.

We understand customers' needs when it comes to their specific requirements, product development and quality issues and use the technologies and experiences we have cultivated over 70 years to provide leading-edge solutions.

We approach product development from three perspectives: high performance to ensure peak productivity from the design stage onward; high-precision of every element to support a fully integrated process; and high quality to deliver stable, reliable superior products and services.

Our core technologies ensure consistent quality every time:

Polymer Modification Technology

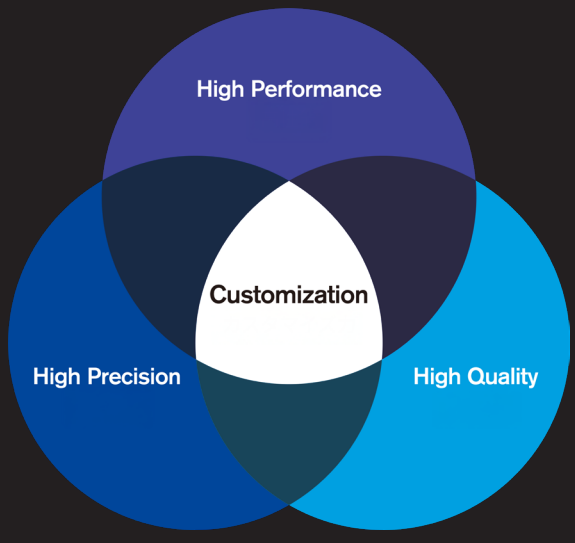
Junkosha has a deepened understanding of high-performance polymers and has developed its own unique proprietary polymer modification technology to provide the best possible solution to our customers and help to solve their unmet needs.

High-Precision Molding and Extrusion Technology

At the heart of our technological prowess lies High-Precision Molding and Extrusion Technology. The cornerstone of Junkosha's unwavering product consistency—regardless of customer specifications—is discovered in these foundational platforms. This expertise allows us to manufacture with exceptional precision, reducing both in-lot and lot-to-lot variability.

Advanced Processing Technology

By combining advanced, highly precise secondary processing, Junkosha can respond to individual requests in a timely and efficient way. These diverse demands could encompass such technologies as stranding or shielding, assembly, surface modification, or other customized processing of products that are enabled by our high-precision molding and extrusion technology.



Catheter Solutions

Junkosha® Peelable Heat Shrink Tubing

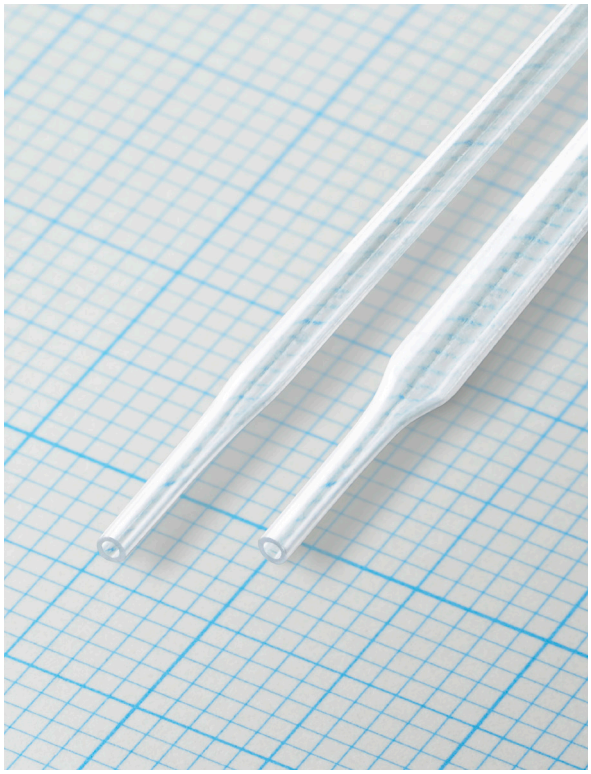
A critical challenge in catheter manufacturing—where materials of varying durometers and diameters are combined—is the removal of heat shrink tubing after lamination, which can be labor-intensive and negatively impact yield.

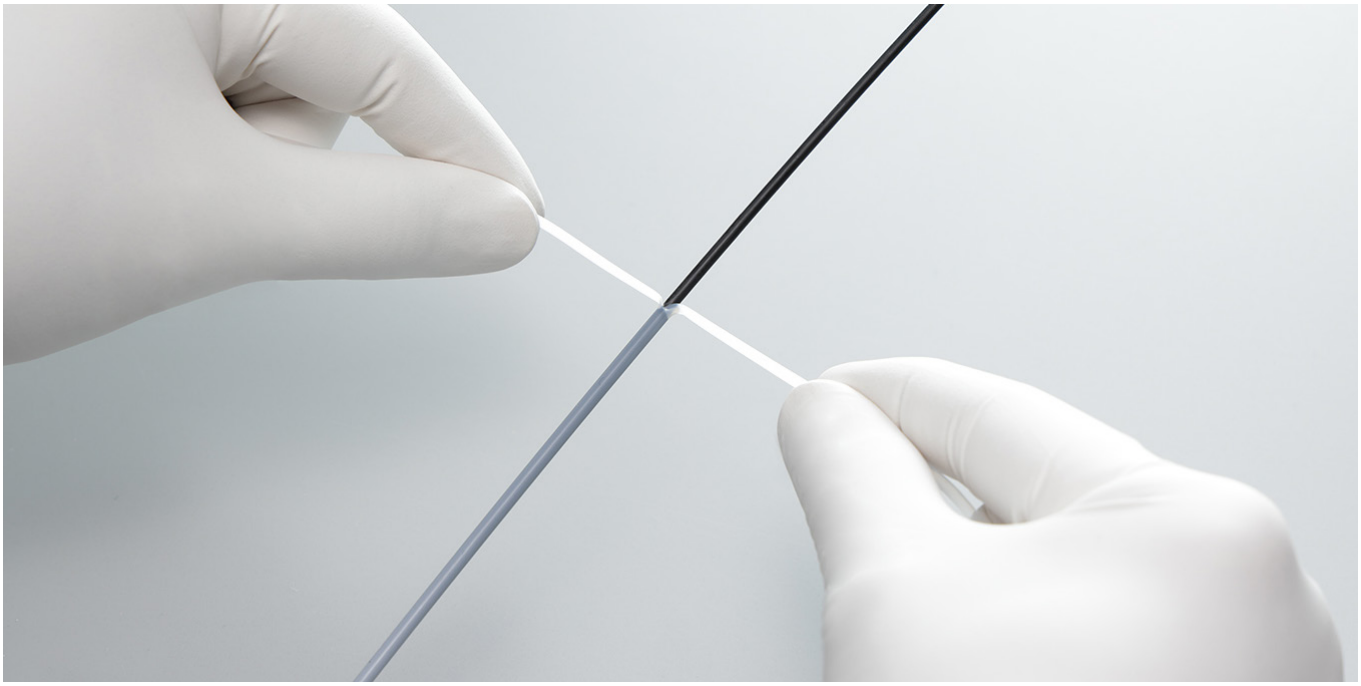
Junkosha is the first in the world to offer an FEP-based heat shrink tubing that can be easily peeled by hand along its entire length. Only a single slit at one end is needed to start peeling. This reduces the risk of product damage, and improves productivity and cost efficiency by saving both processing and training time.

Through proprietary material formulations alongside advanced molding and secondary processing, Junkosha precisely controls shrink rate, temperature, and length change ratio—minimizing lot-to-lot variation and ensuring consistent processability.

The tubing meets USP Class VI biocompatibility standards and is available in a wide range of sizes with flexible low-volume supply to meet diverse customer needs.

Discover more: www.junkosha.com/catheter/phst





Catheter Solutions

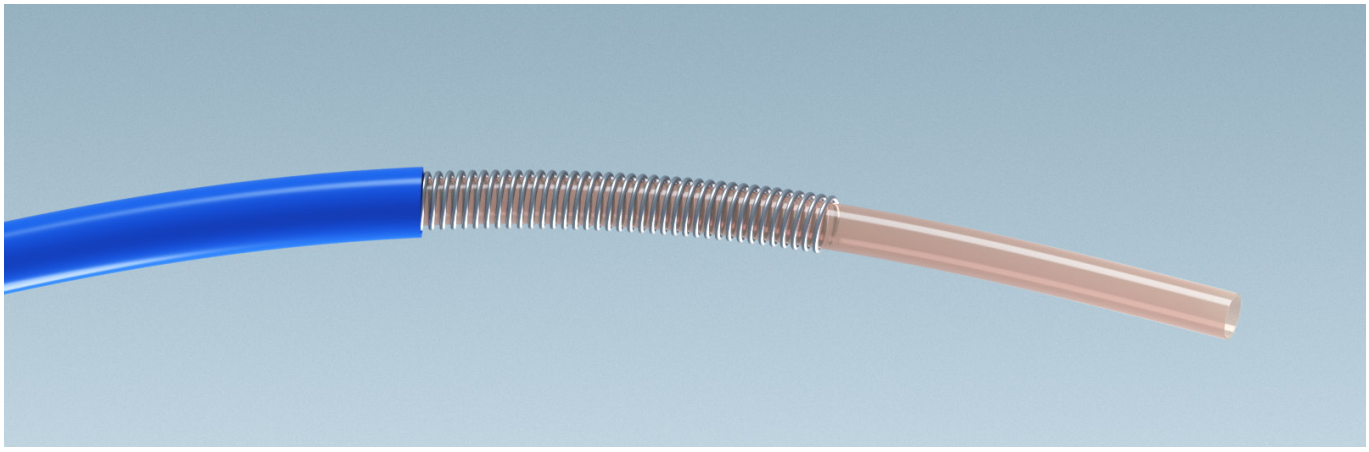
Junkosha® Etched PTFE Liner

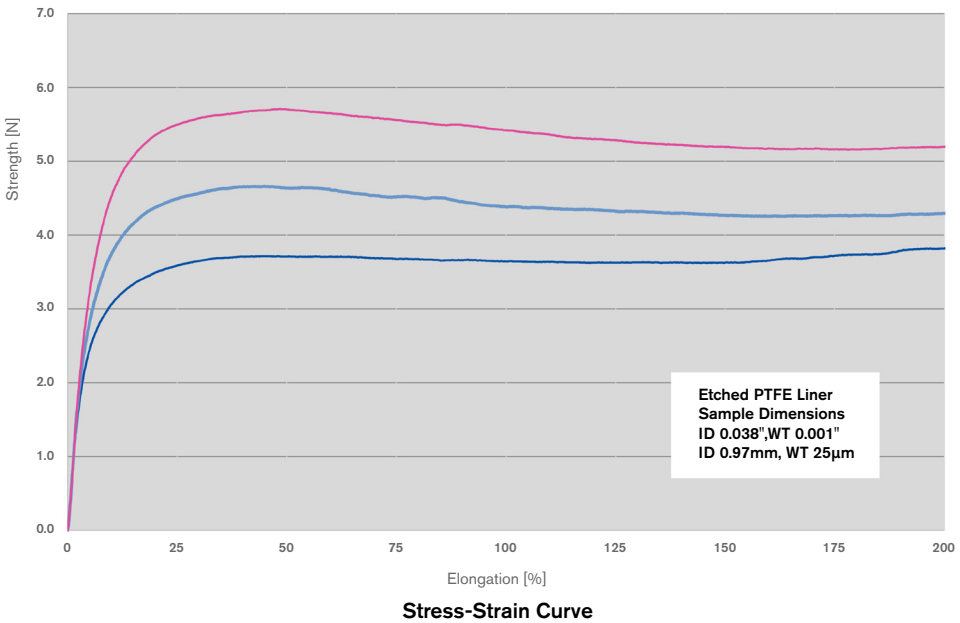
Junkosha Etched PTFE Liner is a critical inner component in catheter construction, and its high tensile strength enables the smooth delivery of therapeutic devices through blood vessels. We can propose optimized strength levels based on specific application needs.

Our liner meets USP Class VI biocompatibility standards and provides high reliability for medical use.

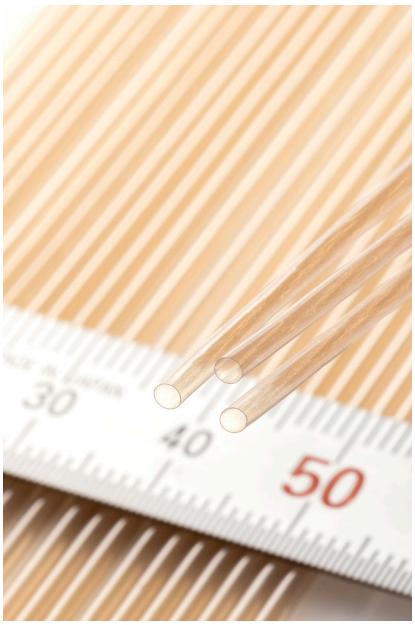
Our liner's consistent elongation behavior during the lamination process minimizes defects and contributes to higher yields in catheter manufacturing.

Discover more: www.junkosha.com/catheter/epl





Stress-Strain Curve



Catheter Solutions

Junkosha® Multi-Core Cable and Assembly

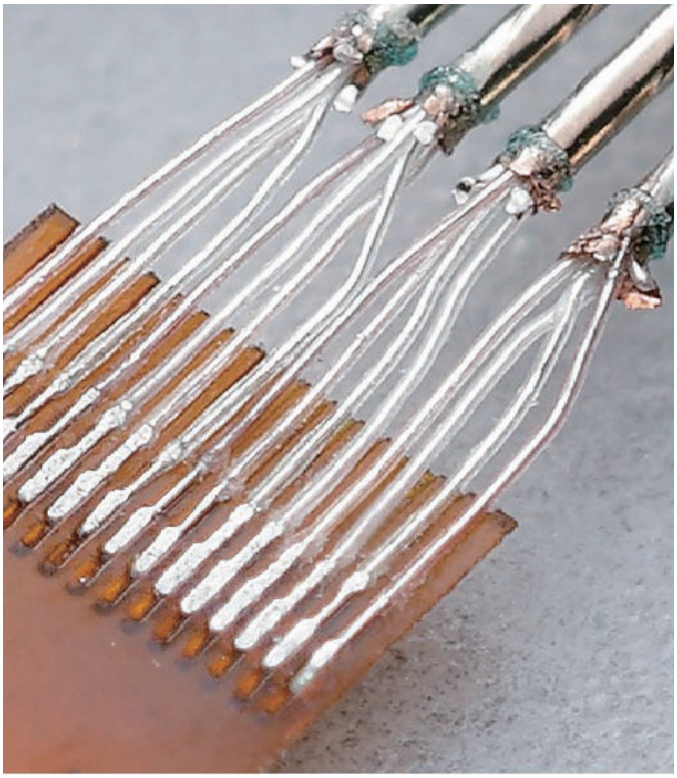
Multi-Channel Transmission Cable and Assembly

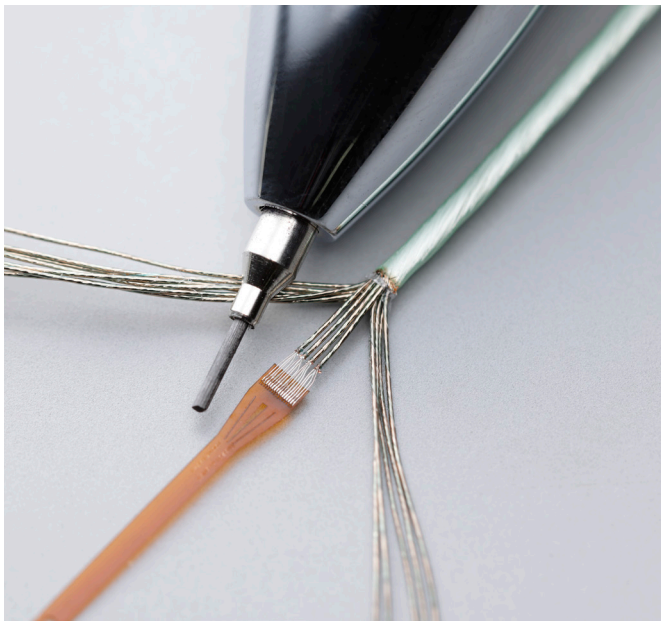
Ultrasound catheters and ultrasound endoscopes used to diagnose narrow and complex vessels or organs require ultra-thin, highly flexible cables.

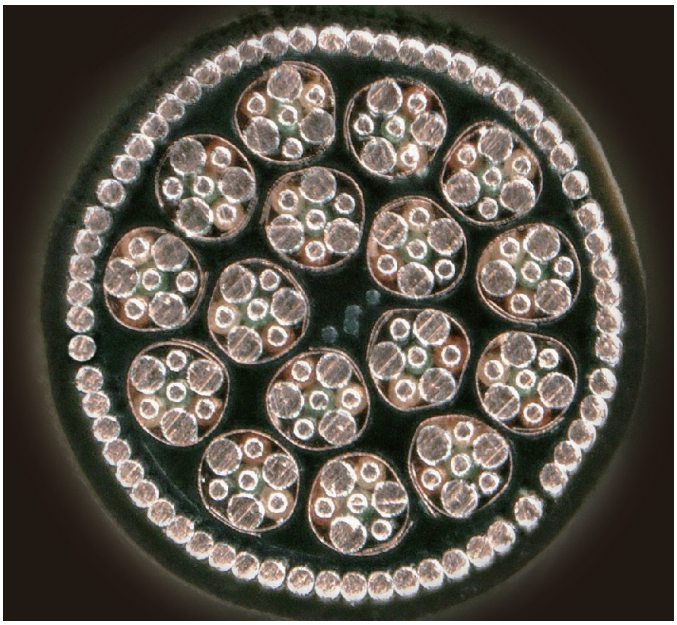
Junkosha Multi-Channel Transmission Cable and Assembly incorporates a patented structure that enables both miniaturization and high flexibility. Designed for stable signal delivery and precise control, they contribute to the advancement of minimally invasive treatments.

Combining a patented structure with AWG 50 ultra-fine conductors and precision twisting, the cable achieves approx. 30% diameter reduction compared to conventional coaxial cables, while maintaining high signal integrity.

With ultra-fine processing technology that enables 0.1 mm (0.004 in)-pitch terminations and soldering, we support custom designs tailored to specific requirements—helping simplify assembly processes in medical devices.







64-channel in 1 mm (0.039 in)

Catheter Solutions

Junkosha® Multi-Core Cable and Assembly

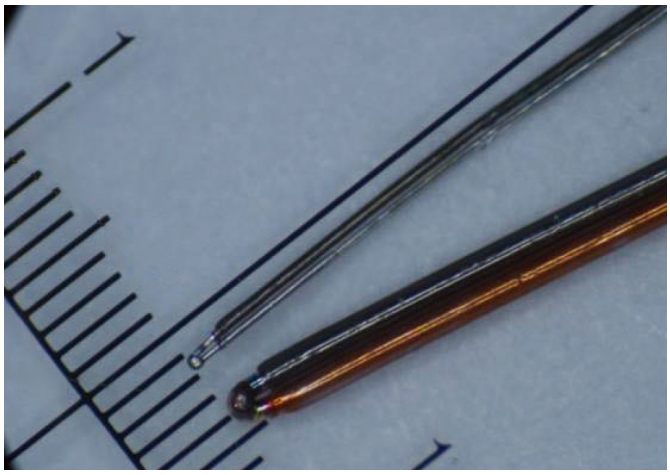
Ultra-Fine Flat Cable (patent pending)

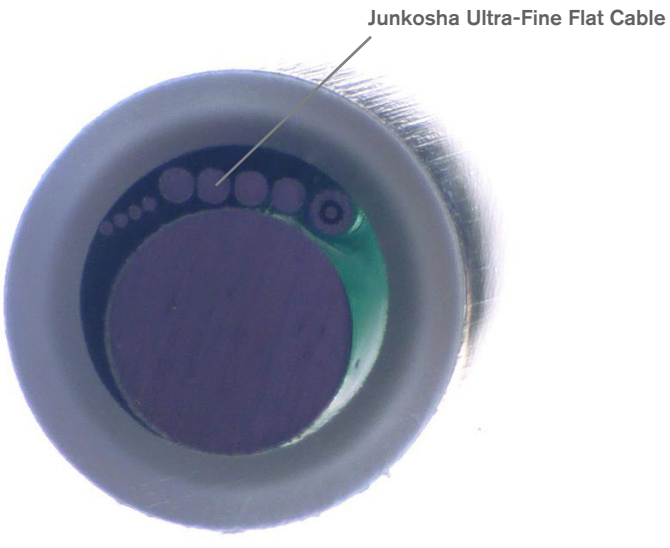
Developed using proprietary tape lamination technology, Junkosha's Ultra-Fine Flat Cable supports ultra-fine sizes from AWG 38 to 50, with options including single wire, coaxial, and twinax constructions. Designed for precision applications, these cables are available in widths ranging from approximately 0.5 to 3 mm (0.020 to 0.118 in). The cable can be bent and inserted into the extremely limited space inside the catheter, contributing to its miniaturization and reduced diameter.

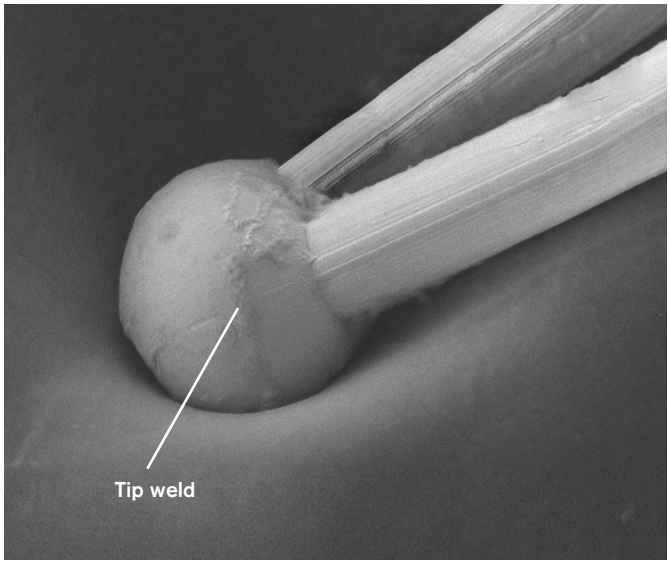
Ultra-Fine Thermocouple

As demand for temperature monitoring catheters rises, Junkosha's Ultra-Fine Thermocouple cables offer a compact, simplified alternative to conventional thermistors. Ideal for multi-point thermal sensing in catheter development, these cables are easily downsized and feature a streamlined structure.

Leveraging advanced manufacturing capabilities, Junkosha delivers thermocouples up to AWG 50.







Endoscopy Solutions

Junkosha® Cable for Endoscopes

Cables connecting an endoscopic camera to the control unit must combine an ultra-thin design—to reduce patient burden—with the high performance required for clear, high-resolution imaging. They must also maintain stable signal transmission over 4–5 meters (13.1-16.4 ft), even in body environments near 40°C (104°F).

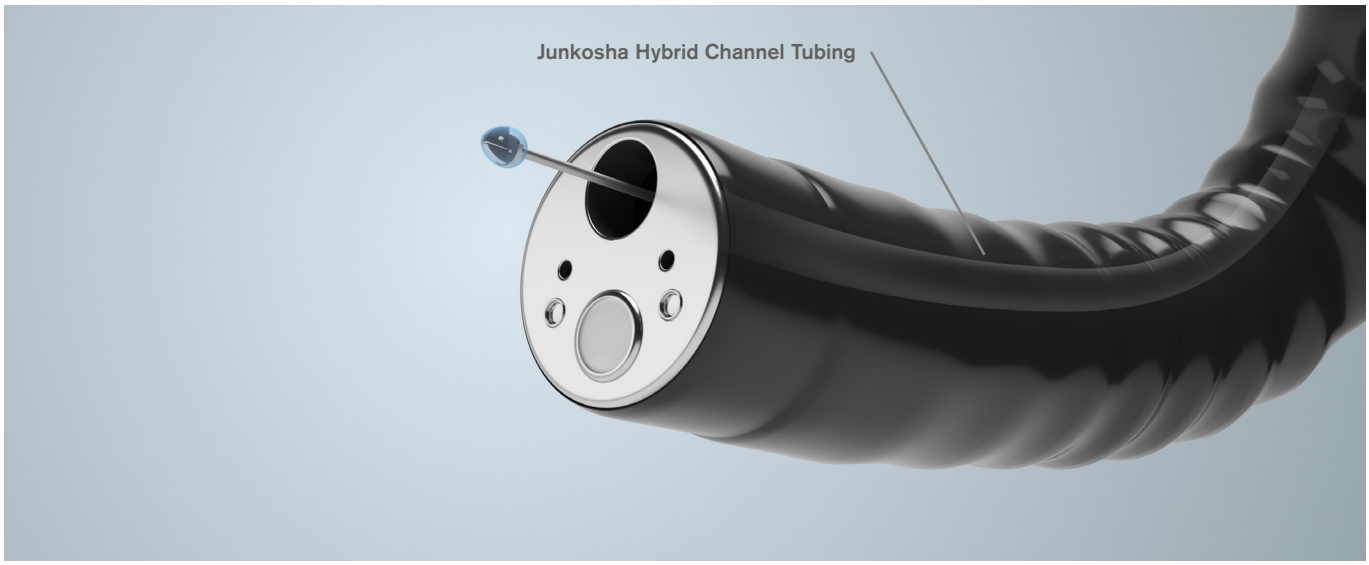
Junkosha continuously works alongside customers to solve challenges through iterative prototyping and refinement. We also offer end-to-end support, including terminal assembly.

Junkosha Cable for Endoscopes

Junkosha® Hybrid Channel Tubing

Channel tubing used to guide endoscopic instruments must offer both high durability and the flexibility needed for smooth, precise manipulation by the physician.

Junkosha Hybrid Channel Tubing features an inner layer of PTFE and an outer layer of EPTFE, combining PTFE's excellent airtightness with EPTFE's superior flexibility. Its kink-resistant structure, proven through rigorous durability testing, ensures high reliability. A reinforced structure helps prevent kinking, and reliability is ensured through rigorous durability testing.



Ultrasound Device Solutions

Junkosha® Cable and Assembly for Ultrasound Echo Probes

Junkosha provides high-durability cable assemblies that connect the main unit and probe of ultrasound diagnostic systems, helping to prevent disconnections during use and contributing to longer system lifespans.

By supporting assembly of device-side connectors, we also help streamline the supply chain. Our high-mix, low-volume production system handles over 200 models per year and flexibly accommodates complex configurations with up to 1,000 conductors.

Learn more about our medical solutions:
www.junkosha.com/en/products/medical


Junkosha

Junkosha®
Enabling Technology Innovators

For inquiries or more information,
please scan the QR code or visit:
market.junkosha.com/en/contact