



Micro Coaxial Cable factory-(FRS)



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i INFO

Introduction

In today’s fast-paced digital world, reliable and high-speed data transmission is critical for industries ranging from telecommunications to aerospace. Enter **High-Speed Data Micro-Coax**—a cutting-edge miniature coaxial cable engineered to deliver ultra-low loss, high-frequency signal integrity in compact, space-constrained environments. This product introduction dives deep into its features, applications, and why it’s the go-to choice for engineers and designers demanding precision and durability.



Home



Products



Contact



crisp, uninterrupted data transfer for high-speed applications like 5G networks, radar systems, and medical imaging devices.

Compact and Flexible Design

With an outer diameter as small as **0.81 mm**, this micro-coax excels in tight spaces without compromising flexibility. Its lightweight, bend-resistant construction makes it ideal for intricate PCB layouts, wearable tech, and drone-mounted sensors.

Superior Shielding Efficiency

Featuring dual-layer shielding (foil + braid), the cable achieves **>90% noise reduction**, safeguarding signals against electromagnetic interference (EMI) and cross-talk in high-density electronic assemblies.

Wide Temperature Range

Built to withstand extreme conditions, the cable operates reliably in temperatures from **-55°C to +200°C**, making it suitable for aerospace, automotive, and industrial automation applications.

Customizable Configurations

Available in various AWG sizes (30 to 44), impedance options (50Ω, 75Ω), and connector types (SMA, MMCX, SMP), our micro-coax can be tailored to meet specific project requirements.



Applications

Telecommunications: 5G base stations, fiber-optic repeaters, and satellite communication systems.

Medical Technology: MRI machines, endoscopes, and portable diagnostic tools.

Aerospace & Defense: Avionics, UAVs, and radar/EW systems.

Automotive: ADAS sensors, infotainment systems, and EV battery monitoring.

Industrial IoT: Robotics, factory automation, and high-speed data acquisition.

Technical Specifications

Conductor: Silver-plated copper-clad steel (SPCCS) for optimal conductivity.

Insulation: Foamed PTFE for low dielectric constant.

Shielding: Dual-layer aluminum foil + tinned copper braid.



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Contact



Why Choose Our High-Speed Data Micro-Coax?

Proven Performance: Tested and validated in MIL-STD-202 environments for military-grade reliability.

RoHS/REACH Compliance: Environmentally friendly materials meet global regulatory standards.

Fast Lead Times: Custom orders ship within 2–3 weeks, backed by 24/7 technical support.



TAGS

[0.5mm Ultra-Fine Coaxial](#)

[0.81mm Micro-Coaxial Cables](#)

[1.13mm](#)

[10x-15x cable OD](#)

[3D Printed Micro Coaxial Cable Connectors](#)



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50/50 & Telecommunications

50 cable requirements

75 ohm Micro-Coaxial Cables

75Ω cable

8K HDMI

8K video transmission

ADAS Cameras

Advanced Micro-Coaxial Cables

Aging Micro-Coaxial Cables

Amplifiers and Repeaters

anti-static micro coaxial cables

Anti-Vibration Micro-Coaxial Cable

Attenuation in Micro Coaxial Cables

Autonomous Vehicle LiDAR Systems

Avionics Wiring

Best Coaxial Cable Manufacturers

Best Micro-Coaxial Cables

Bulk Purchasing vs Pre-Made

cable clips and fasteners

Cable Glands



FAQ

The Tiny Titans: Why Sub-1mm Diameter Micro-Coaxial Cables are Taking Over Wearables



Characteristics of Thicknet and Thinnet Cables



Smart Factories: Why Micro-Coaxial Cables Are the Secret Weapon of Industry 4.0 Automation



Why Air-Spaced Dielectric Makes Micro Coax Cables Better



Micro-Coaxial Wiring in Particle Accelerators: Precision Isn't Just Important, It's EverythingThe Incredible Science ...



Characteristics of Micro Coaxial Cables



Most Reliable Micro Coaxial Cable Brands: Connecting Your Tech with Confidence



Noise-Canceling Headphones: How Micro-Coaxial Wiring Supercharges Audio Clarity



Flexible vs. Rigid Micro Coaxial Cables



High-Temperature and Radiation Resistance of Micro-Coaxial Cables



What are the differences between standard and premium Coaxial Cable



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Top Reasons Your Tiny Wires Break: Micro Coax Cable Failures Explained +

Cable Ties and Mounts for Organization +

Coaxial Cable Durability Test Results Released +

Tools and Accessories for Professional Cable Installation +

How to Calculate Propagation Delay in Micro Coaxial Cables +

Weatherproof Coaxial Cable for Outdoor Broadcasting Applications +



 **NEWS**

Materials Used in Manufacturing Micro Coaxial Cables +

Coaxial Cable Signal Transmission Quality Tested +

Differences Between Coaxial Cable and Fiber Optics +

New EU Regulations Impact Micro-Coaxial Cable Manufacturing +



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Coaxial Cable for Aerospace and Avionics Systems



Coaxial Cable for Autonomous Vehicle Systems: The Silent Data Superhighway



The Significance of Low – Loss Signal Transmission Wires in HD Video



Liquid Crystal Polymer (LCP) Sheathing: The Unsung Hero of Ultra-Thin Micro-Coaxial Cables



Smart City Infrastructure Relies on Durable Micro-Coaxial Networks



Why Semiconductor Testing Requires Ultra-Precise Micro-Coaxial Cables



Micro-Coaxial Cable Innovations: The Unsung Heroes Powering Hypersonic Flight



Biodegradable Insulation Materials for Eco-Friendly Micro-Coaxial Cables



Top 10 Applications of Micro Coaxial Cels in Modern Electronics



The Environmental Impact of Micro-Coaxial Cable Production: Balancing Connectivity and Sustainability



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Coaxial Cable for Traffic Management Systems



New Connector Designs Simplify Micro-Coaxial Cable Installation



Coaxial Cable for Scientific Research Equipment



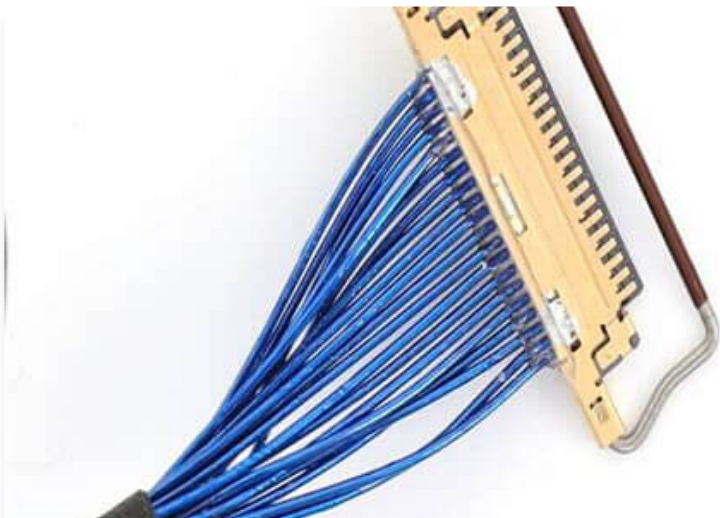
Our Factory's Coaxial Cable Shortlisted for Top 10 Products



More Products



Our factory offers high-quality products at competitive prices



I-PEX Micro Coaxial Cable



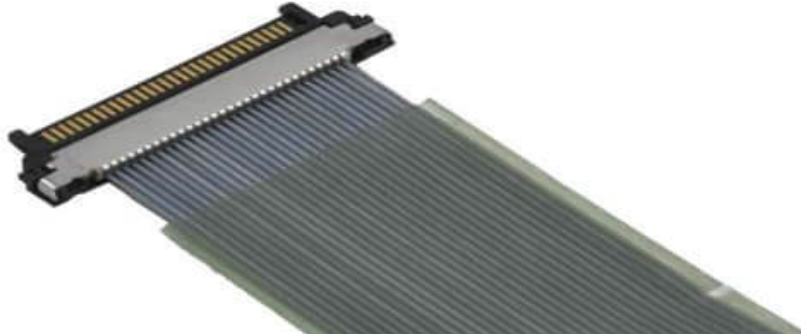
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KEL Micro Coaxial Cable



KEL's Micro Coaxial Cable solutions are at the forefront of modern electronic connectivity, offering exceptional performance in high-speed data transmission, miniaturization, and reliability. These connectors are integral to various.



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Send us an email and we'll get back to you soon.

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