Micro-Coaxial Cable (MCX) is used in a wide array of precision medical products and cabling applications, where high-reliability, high-sensitivity and outstanding signal, capacitance and impedance characteristics are important. Micro-coax is ideal for ultrasound probes, catheters, and advanced endoscopy along with other industrial applications where non-destructive inspection and testing are required. Our micro-coaxial cable is a market leader due in part to our proprietary high-strength alloys with outstanding low-loss characteristics. Ultra-thin insulators made from special fluorine resin enable smaller diameter cables with improved flexibility. Our precision cabling technology enables our customers to use complex bundles while providing size and performance advantages without compromising on today’s Healthcare or Industrial standards. At Hitachi, we offer a wide range of turn-key design and manufacturing support. Whether buying bulk cable or receiving a completely manufactured assembly, we are perfectly positioned to meet your every strategy.

Photo: Hitachi Metals copper alloy wire wrapped around a 80 micron human hair.

Features & Benefits

- Micro diameter and super light weight
- Excellent heat resistance and electric properties with fluorocarbon polymer insulation
- Excellent mechanical strength and flexible performance with copper alloy conductor
- Custom design of bundled cable for the required specification
We offer a broad selection of copper alloy wire with precision wire gauges ranging from 36 AWG to 50 AWG and, with a new low resistance HiFC® alloy characterized by very high-tensile strength, long flex life and conductor resistance that approaches copper. This resistance improvement can lower cable attenuation by 20% or more.

Note: 50-60 Ohm Impedance Cables

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## High Capacitance Micro-Coaxial Cable (MCX)

We reserve the right to alter products at any time.

**Note:** Custom designs available.

1. HiFC® = Hitachi Fine Copper
2. Under development
3. PFA = Perfluoroalkoxy
4. PFA available

HiFC® is a registered trademark of Hitachi Metals, Ltd in Japan.
Low Capacitance Micro-Coaxial Cable (MCX)

Hitachi’s advanced foam PFA extrusion process delivers low capacitance cable with reliable performance. We utilize a polyester tape skin over the foam to deliver dielectric strength properties required by the medical industry. 38 AWG to 46 AWG wire sizes available.

Note: Custom designs available.

We reserve the right to alter products at any time.