



MEDICAL CONNECTIVITY SOLUTIONS

70 YEARS OF COLLABORATION EXPERTISE

IEC 60601-1, ISO 13485:2016

Sterilization proven
designs for 500 cycles

Expert design consultation



The safety of medical patients is a primary concern in the development and provision of our products, services and solutions. We offer **IEC 60601-1** compliant solutions for patient/operator protection (**MOPP/MOOP**).



We manufacture **quality** products that are **safe** and **reliable** for integration into medical devices. We are certified **ISO 13485:2016**.

Leveraging 70 years' experience and know-how in **high-performance connectivity**, Fischer Connectors develops and manufactures **connectors, cable assemblies** and **electronic solutions** that meet customers' specific needs and challenges for data and power transfer while complying with the stringent requirements for medical devices.



EXPERTISE, DESIGN CUSTOMIZATION & PROJECT MANAGEMENT

With broad experience spanning a wide spectrum of the medical device industry, our experts have the knowledge and expertise to understand your challenge and **work closely with your technical team** to optimize the form, fit and function of your end-to-end connectivity solution.



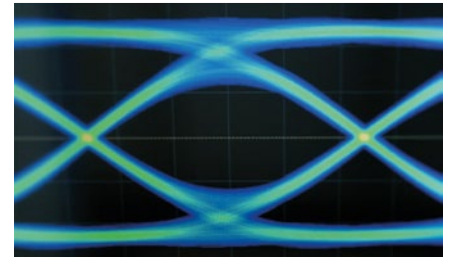
Custom design

- Brass, stainless steel, plastic, PEEK
- Custom color coding and locking mechanisms
- Miniature and lightweight
- Ergonomic and easy to handle
- Hybrid connectivity – fluidic / optical / electrical
- Robust design with double shielding



Silicone overmolding

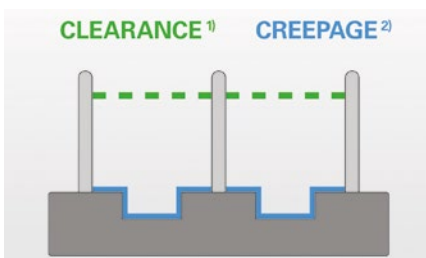
- Silicone-coated solutions
- Friction-free coating
- Watertight IP68
- Thermal insulation
- Autoclavable
- Flexible for surgeon use



Signal Integrity optimization

- High-speed multiprotocol data transfer
- Minimized noise and signal distortion
- Controlled cable assembly process for impedance matching
- Minimized near-end/far-end crosstalk (NEXT / FEXT)

Fischer Connectors has a proven reputation for designing and manufacturing reliable, safe, sterilizable and high-performance solutions which **can help optimize the functionality of life-saving devices** and ensure their **electrical safety and protection**.



SAFETY

- **ESD** (electrostatic discharge) protection
- **MOPP** (Means of Patient Protection), **MOOP** (Means of Operator Protection) and compliance with **test finger** standard
- Air **clearance** and **creepage** distances
- Insulation barriers and **insulated contacts**

¹⁾ Shortest distance through the air between two conductive elements

²⁾ Shortest distance along a surface between two conductive elements



DURABILITY

- **500 sterilization cycles** proven
- Resistant to sterilization and **chemicals** (autoclave, Cidex, EtO, Gamma radiation, Steris® or Sterrad®)
- Resistant to **high-pressure steam** (hydrogen peroxide vapor, Sterrad®)

MEDICAL CONNECTIVITY SOLUTIONS

HYBRID CONNECTIVITY SOLUTIONS

Fischer Connectors' solutions help customers overcome the challenge of developing ever **smaller and lighter** devices to create **mobile and less invasive** interactions with patients. Available solutions include various hybrid configurations that optimize size and weight by combining **data, power and even gas or fluids** in a **single high-density connector**.



**FISCHER CORE SERIES
BRASS**



- Resistant to autoclave sterilization (500 cycles minimum)
- Highly configurable
- Overmoldable



**FISCHER CORE SERIES
DISPOSABLE**



- EtO and Gamma radiation resistant
- Cost-effective single use plugs
- Color coding available

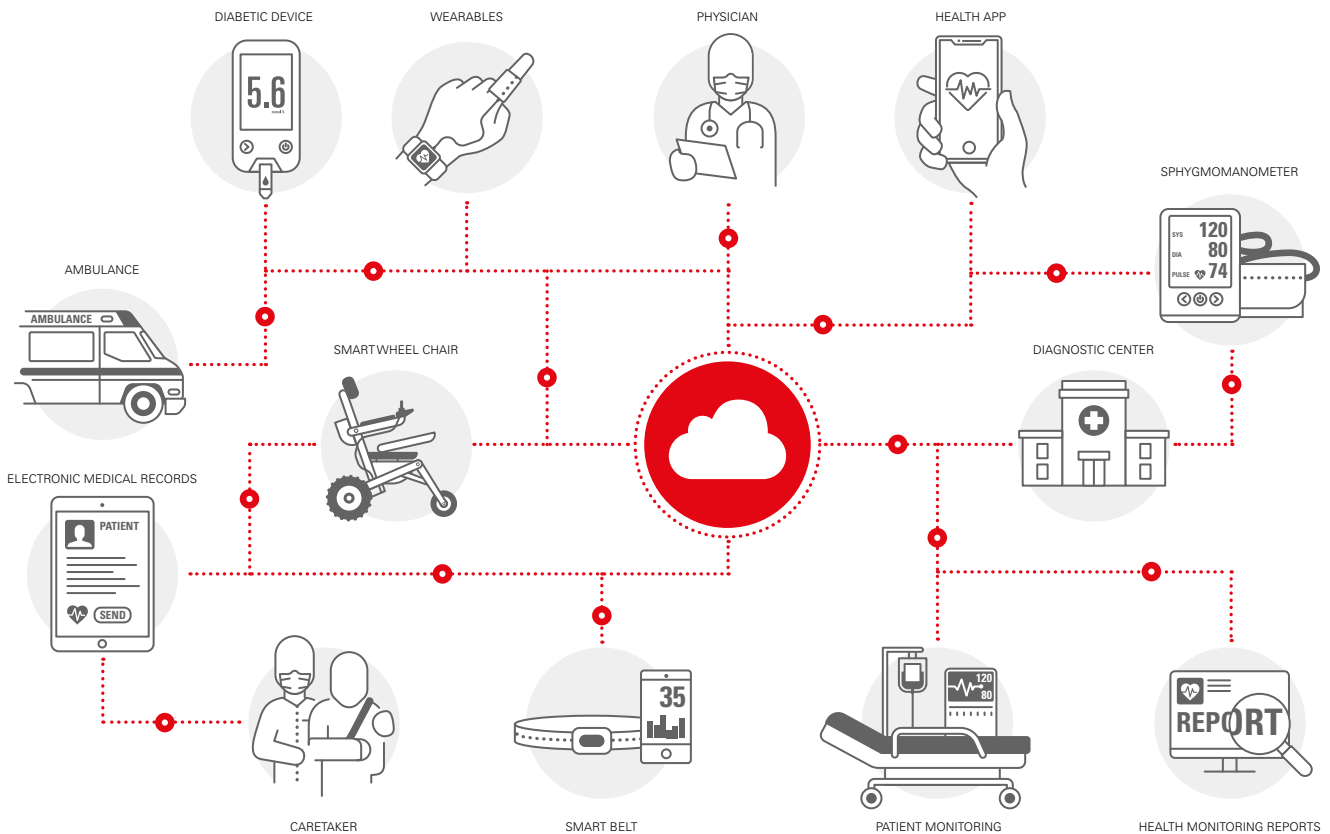


**FISCHER CORE SERIES
PLASTIC**



- High-performance plastic materials
- Sterilization and chemical resistant (autoclave, Cidex, EtO, Gamma radiation, Steris® or Sterrad®)

WE OFFER FULLY INTEGRATED CONNECTIVITY SOLUTIONS TO FACILITATE THE IMPLEMENTATION OF THE **INTERNET OF MEDICAL THINGS (IoMT)**.



OUR SPECTRUM OF MEDICAL APPLICATIONS

Fischer Connectors is proud to be recognized as an **essential partner** for medical device manufacturing. With our high-reliability interconnect solutions, we serve **the world's leading medical organizations and suppliers** of mission-critical devices, thus helping protect and save lives across a wide variety of medical domains and applications.



SURGERY

When precision matters most

High-performance, durable connectivity solutions adapted to high-precision devices and equipment in robot-assisted surgery or dental surgery, e.g., endoscopic micro-cameras.



IMAGING

Reliable connectivity that keeps patients safe

Dependable, high-speed connectivity solutions for accurate imaging and diagnostics, e.g., electroencephalography (EEG), MRI and CT scanners or medical ultrasound.



MONITORING

Easy handling & cleaning, durability and space saving

Reliable and straightforward connectivity technology for vital patient information, critical care and rescue operations, e.g., Getinge's mobile heart-lung support system Cardiohelp.



ROBOTICS

Robustness, compactness and ultra-lightness

Easy to use and to integrate for enhancing the independence of people with paraplegia, e.g., TWIICE's exoskeleton, one of the lightest and most compact portable robotic supports in the world.

CONTACT YOUR LOCAL FISCHER CONNECTORS SUBSIDIARY

Explore high-performance connectivity solutions
[fischerconnectors.com](https://www.fischerconnectors.com)