

Exceptionally Connected.

A range of connection technology
that is even more flexible than your
requirements.

Connectivity
Product Overview



Your automation, our passion.

 **PEPPERL+FUCHS**

Connectivity from Pepperl+Fuchs

Connectors. Cordsets. Automation.

Automation is our world: Pepperl+Fuchs develops sophisticated sensors for your applications. To ensure that your processes run smoothly, we offer high-performance sensor technology with connectivity to match. Our product portfolio offers you an integrated solution of sensors and the ability to connect them. Everything you need for optimal connectivity in one place.

Perfectly Paired Products from a Single Source

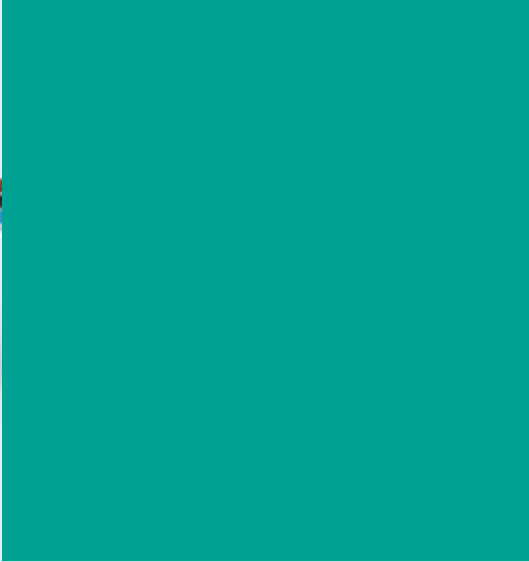
Innovation, application expertise, and working closely with our customers—these are the principles that have made Pepperl+Fuchs a global pioneer and innovator. Decades of practical experience have allowed us to develop a portfolio of connection technologies that is perfectly adapted to your automation needs. By providing you with sensors and their corresponding connection components from a single source, we can boost your productivity and increase the availability of machines and plants.

Excellent Quality in Any Environment

Pepperl+Fuchs products are used in a wide range of applications. These applications, including those that take place in the harshest ambient conditions and hazardous areas, require sensors that can stand up to the challenge. This is why we set the highest quality standards for our entire product portfolio—including our connection technology. Because in the field of automation, only robust, well-thought-out solutions with maximum reliability will stand the test of time.

Solutions That Best Fit Your Application

Our goal is to make our customers' applications as simple, efficient, and reliable as possible. Benefit from our application expertise: the experts at Pepperl+Fuchs have the exact connectivity solutions that you are looking for—we know which sensors are suitable for which application, and which connection components to use with each sensor.

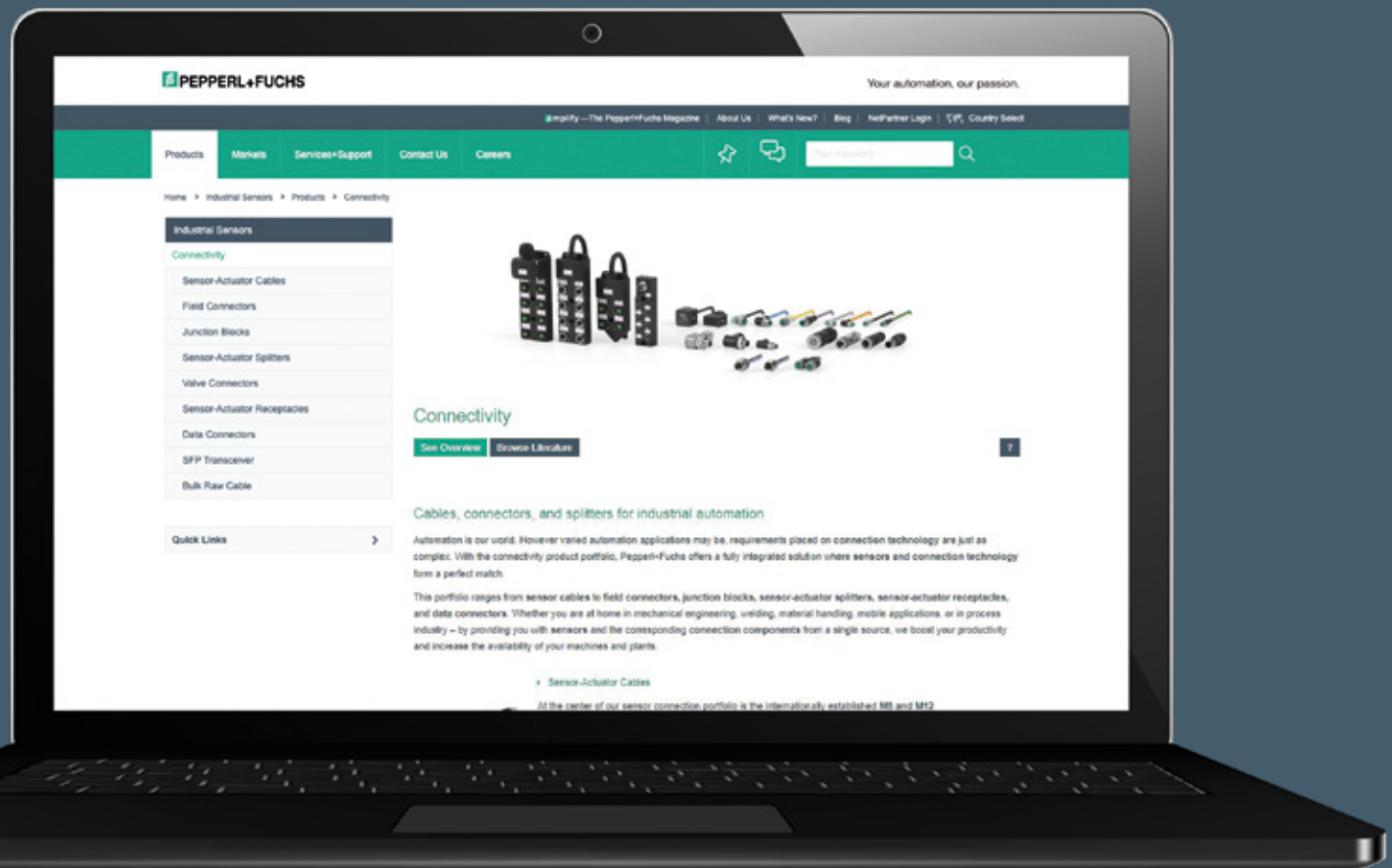


Find Your Connectivity Solutions in Just a Few Clicks.

Go online. Specify your requirements. Select your connectivity solution. You can find the right cable for your application in just a few clicks. The portfolio—adapted for specific automation requirements—makes the selection process easier for you and guides you to what you need. If you have any questions, our experts are available to take your call.

Online Search on the Pepperl+Fuchs Website

Enter the model number in the search field on the Pepperl+Fuchs website and you will be taken immediately to your product selection. Or you can navigate through our range of product families and groups. Product selectors help you choose the right device.



For more information, visit
pepperl-fuchs.com/pf-connectivity

Quality

German Engineering, Made in the European Union.

Over 20 years of experience. Zero-defect tolerance. The highest quality. Developed and manufactured at our production site in Hungary. Connectivity by Pepperl+Fuchs stands for maximum reliability.

Unconditional Quality

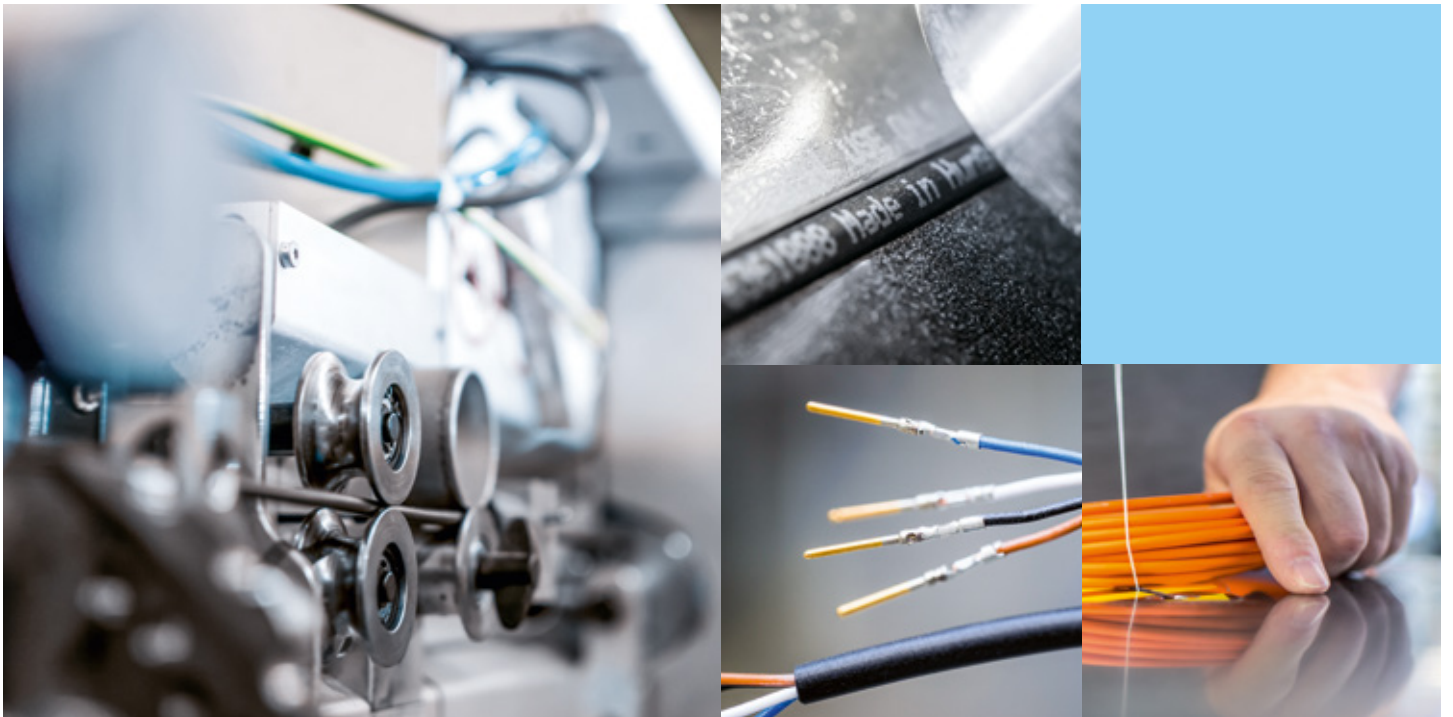
Pepperl+Fuchs does not compromise on quality. We use select cable material suppliers and cable types from certified European manufacturers to guarantee exceptional reliability. Gas-tight crimps guarantee durability and the longest possible service life.

In-House Production and Zero-Defect Tolerance

Sensors perform at their best when they are connected using the best possible solutions. Connection technology from Pepperl+Fuchs is subject to an automated 100 % functional test. The latest manufacturing technologies at our production site in Hungary allow us to implement a zero-defect tolerance policy—guaranteeing smooth operation and a long service life.

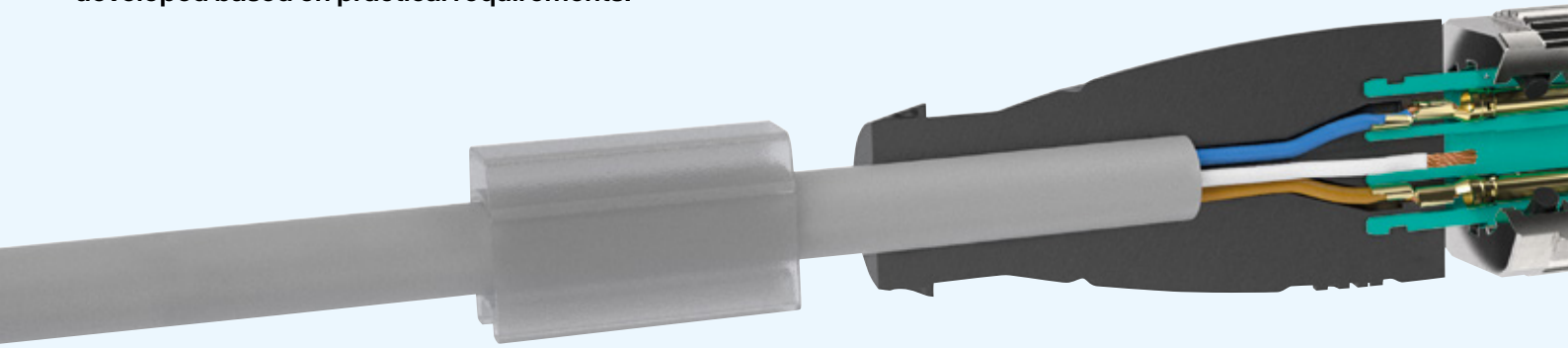
Highlights

- Sensors and connectivity from a single source
- Global availability of standard lengths available from stock within 48 hours
- Support every step of the way, from application consulting to dedicated technical support
- Experienced application development for customized solutions and special requirements
- UL-approved models available for global market access



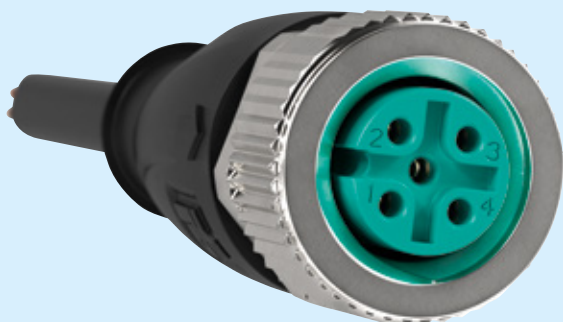
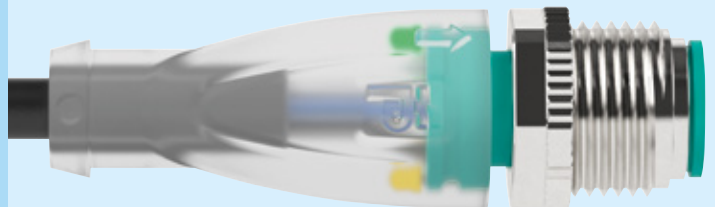
Standardized and Perfected: M8/M12 Cables.

Connectors with M8 or M12 connections are at the heart of industrial automation. The Pepperl+Fuchs brand is synonymous with exceptional product design and uncompromising quality—carefully designed down to the last detail, and developed based on practical requirements.



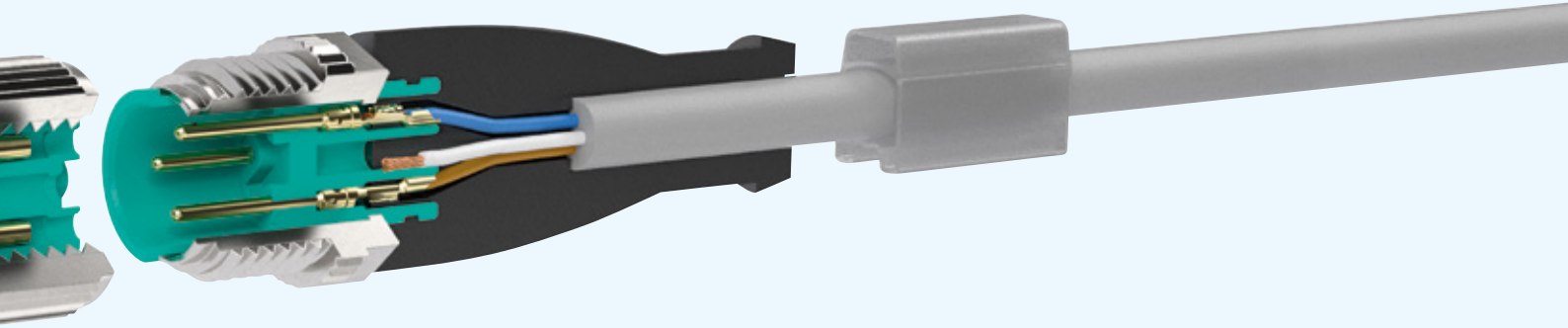
Mounting without a Datasheet

The connector itself provides all the necessary information for quick mounting: the pin assignment is printed on the contact carrier. No package inserts or datasheets are required. The clearly identifiable coding—indicated by an arrow on the handle—saves a lot of time on trial and error and reduces the installation time.



Quick and Practical Mounting

With both hexagon and easy-grip knurling, the coupling nut allows quick and secure fastening by hand or with tools. The integrated fixed stop protects the O-ring and provides wide torque ranges. LED versions with a translucent black connector housing enhance visibility and make status diagnostics easy, even in strong ambient light.



100° Angle for Longer Life

The angled versions have a 100° angle, which reduces the stress on the cable conductors. Compared with the common 90° versions, the service life is extended with only a slight increase in the required mounting space. In addition, the screw connection is easier to access even in hard-to-reach places. The prominent loom-tubing catch mechanism provides a firm grip and offers additional protection for demanding applications.



Durable Even in Harsh Industrial Applications

Internal radial catches ensure a high level of vibration resistance. The creepage distance in the plug, twice the market standard, increases the tolerance against contamination. This reduces the possibility of pin-to-pin short circuits and machine failure, and allows the sensor-actuator cable to be used in harsh industrial applications.

No Two Applications Are Alike. Pepperl+Fuchs Cables Cover a Wide Variety of Physical Characteristics.

Each operating environment has its own set of requirements. The mechanical and chemical properties of the connection technology are crucial in determining the solution. Pepperl+Fuchs offers the right cable for every situation.

Easier Cable Stripping Optimizes Field Installation

When working with traditional cables, it can be difficult to strip the cable jacket, resulting in longer installation times.

The minimal friction between the jacket and the wires makes stripping Pepperl+Fuchs cables simple and quick, regardless of the length. This speeds up installation on site, as the jacket can be stripped easily and with consistent force.



PVC—Solid and Economical

Cables with PVC sheathing are designed for use in areas subject to moderate mechanical stress.

- Moderate mechanical strength
- Good resistance to chemical agents
- Suitable for use in the food industry
- UL approval optional



PUR—Durable and Highly Flexible

Cables with PUR sheathing are characterized by long-lasting flexibility for continuous use in machine tools.

- Superior mechanical strength
- Resistant to chemical agents and oils
- Halogen-free



PUR U—Highly Flexible with UL Approval

These highly flexible cables with PUR sheathing are designed for particularly harsh operating conditions. Typical applications include drag chains and swivel and rotary tables in mechanical engineering.

- Maximum mechanical strength
- Resistant to chemical agents and oils
- High flame resistance
- Halogen-free
- Suitable for drag chains



PUR A—Resistant to Welding Sparks for the Automotive Industry

PUR A cables are an alternative to irradiated PUR cables. Their resistance to welding sparks makes them ideal for use in the automotive industry.

- Maximum mechanical strength
- Resistant to chemical agents and oils
- PUR sheathing resistant to welding sparks
- Halogen-free
- Suitable for drag chains
- UL approval



STOOW—Designed Specifically for the American Market

As a heavy-duty PVC compound, STOOW is mainly used in the American engineering and automotive industry.

- Resistant to chemical agents and oils
- Highly flame-retardant
- Heavy-duty PVC compound in accordance with STOOW-A
- Proven in outdoor applications
- Approval up to 600 V



PUR-O—Durability for Outdoor Applications

PUR-O cables are very robust. Specifically designed for outdoor applications, these cables are used predominantly in the mobile-equipment field.

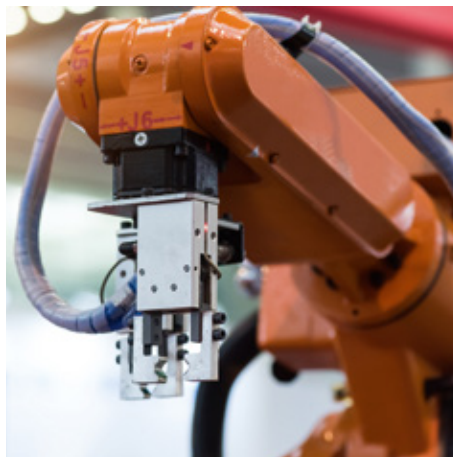
- Maximum mechanical strength
- Highly flame-retardant
- UV-, seawater-, oil-, and diesel-resistant
- Temperature range of -50 °C to +105 °C
- Halogen-free
- Suitable for drag chains
- UL approval



POC—Specifically for Welding Areas

These highly resistant special cables are used in the immediate vicinity of welding processes. They are used in areas where irradiated PUR sheathings cannot be used.

- Extreme mechanical strength
- Thermal resistance of 150 °C continuous operating temperature
- Resistant to welding slag



PUR-R—for Extreme Mechanical Stress

PUR-R are extremely flexible cables that are used primarily in robotics applications.

- 10 million cycles per drag chain
- Withstands 10 million twist cycles ±360°/meter
- Excellent chemical and oil resistance
- Wide temperature range from -25 °C to +80 °C
- Halogen-free
- UL approval



PP—for the Food Industry

- Maximum mechanical load capacity
- Halogen-free
- Ecolab tested
- Suitable for drag chains
- Torsion resistant
- Wide temperature range from -25 °C to +80 °C

More than Connectors and Cordsets.

Fully encapsulated sensor-actuator splitters are the ultimate standard in robustness. Ready-made connectors provide a convenient solution for your application. In addition to connectors and cables, Pepperl+Fuchs offers other components that guarantee long-term functional reliability and machine availability.

Sensor-Actuator Splitters



Splitters enabling you to easily merge two signals into one slot. Also suitable for cost-effective looping of bus signals with minimal wiring.

- Fully encapsulated housing with IP68 degree of protection
- With rear sockets or molded cables
- Various cable lengths available

Field-Attachable Connectors



A wide range of connectors suitable for a diverse range of applications. Ideal for maintenance, easy repair, or plant expansion on-site.

- Plastic or metal version
- Shielded and unshielded versions
- Different connections, including M8, M12, 1/2NPT, 7/8", and others, with screw technology or QUICKON technology
- Precise configuration on-site

Junction Blocks



M8 and M12 distributor with a molded master cable for reduced installation costs.

- Fully encapsulated housing with IP68 degree of protection
- 100 % tested for complete reliability
- Integrated LEDs for easier diagnostics
- Large socket spacing (M12) or offset sockets (M8) for easy mounting of the connection

Receptacles



Signal routing from the control cabinet directly into the field.

- Sealing with IP67/68 degree of protection
- Different connection types
- Available with PG or metric thread
- Cabinet wall mounting, front or back

Data Connectors



Fieldbus cables enable you to create a permanently reliable network between the different components of an automation system.

- PROFINET
- Industrial Ethernet
- PROFIBUS
- CAN/DeviceNet

Valve Connector Cordsets



As a system provider, Pepperl+Fuchs provides ready-made components with exceptionally robust designs.

- Fully overmolded housing design with IP68 degree of protection
- Overmolded, captive seal
- Diverse circuit types to provide electromagnetic compatibility suppression
- Various versions in accordance with DIN and industry standard

Bulk Raw Cables



A variety of raw cable variants in proven quality, available in practical 100-meter spools as well as in small run lengths.

- PVC and PUR standard types, as well as UL-approved cables
- Spark-resistant PUR-A and POC cables
- High-grade PUR-R cables for use in robotics
- UV-resistant PUR-O cables for outdoor use
- CAN cables for indoor and outdoor applications
- Ethernet and fieldbus cables, AS-Interface profile cables

Accessories



Speed and precision are crucial during installation and maintenance. To make routine work faster and easier, Pepperl+Fuchs offers a wide range of accessories.

One example is the mounting tool for connectors. It allows connectors with knurled nuts to be securely attached with the correct fastening torque.

Your automation, our passion.

Explosion Protection

- Intrinsic Safety Barriers
- Signal Conditioners
- FieldConnex® Fieldbus Infrastructure
- Remote I/O Systems
- Electrical Explosion Protection Equipment
- Purge and Pressurization Systems
- HMI Systems
- Mobile Computing and Communications
- HART Interface Solutions
- Surge Protection
- Wireless Solutions
- Level Measurement

Industrial Sensors

- Proximity Sensors
- Photoelectric Sensors
- Industrial Vision
- Ultrasonic Sensors
- Rotary Encoders
- Positioning Systems
- Inclination and Acceleration Sensors
- Vibration Monitoring
- Industrial Ethernet
- AS-Interface
- IO-Link
- Identification Systems
- Displays and Signal Processing
- Connectivity

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Pepperl+Fuchs Quality

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