



M8/M12 CONNECTOR SYSTEM

EVERY CONNECTION COUNTS



M8/M12 Connector System

TE Connectivity's M8/M12 Connector System provides one complete solution to safely and reliably ensure efficient communication in industrial environments and decrease downtime.



M8/M12 Connector System



❖ One complete solution for your requirements

- Broad range of straight, angled, LED and multi-position **field installable and board connectors** that are easily intermateable.
- **X-coded** connectors support higher bandwidth needs of up to 10Gb/s.
- Customized **cable assemblies** offer a solution for your specific needs in different lengths, temperatures or flexibility
- **Passive distribution boxes** offer reduced cabling and increased ease of installation and maintenance

M8/M12 Connector System

❖ One reliable system for your applications



- When communication **simply needs to work** in industrial environments, TE's M8/M12 system and complete Industrial Communications portfolio offer proven reliability that meet industry standards.
- Whether it is for controllers and sensors or robotics and molding machines, the M8/M12 connector system offers you a solution that is **time-saving, error-free and without the use of tools**.
- At TE Connectivity, we understand that different applications and industries have different requirements, and we assist our customers with the **broadest portfolio** to meet those needs.
- With TE's **broad cross-industry expertise**, we can offer customized solutions for your applications that you might not have thought about.

M8/M12 Connector System

❖ One trusted partner for your satisfaction

- One of the leading companies in connectivity, TE offers short lead times and dedicated service through a broad distribution network.
- With our global footprint and local sales teams in all regions, TE is able to offer the support you expect, making it easy to do business with us.
- Easy-to-use – and easy-to-choose: At TE, you will find what you are looking for; and if you have any questions, our Technical experts are there for you – 24 hours a day.
- As one of the most innovative companies in the world, TE provides industry-leading products and technologies that help you solve your problems – now and in the future.



M8/M12 – The codings

- **A-coding:** actuator-sensor plug connections for *DeviceNet, IO link and Profibus*
- **B-coding:** Fieldbus connections for *Profibus and Interbus*
- **D-coding:** Industrial Ethernet, *Profinet, Ethernet/IP and EtherCat*
- **S-coding:** Motor, Frequency-converters, motor operated switches, PSUs for *Power, 620V, 12A*
- **T-coding:** Fieldbus comp, passive distribution boxes, motors, PSUs for *Power, 63V, 12A*



A-coding

B-coding

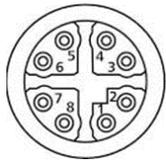
D-coding

S-coding

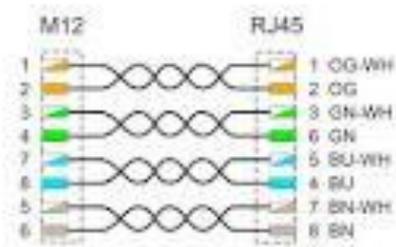
T-coding

M8/M12 – X-coding

- **X-coding:** Cat6A, high-speed 10Gbit rugged industrial Ethernet applications
IEC 61076-2-109

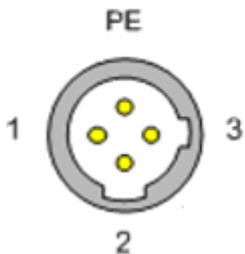


X-coding

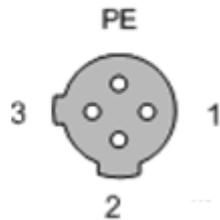


M8/M12 – C&P-coding

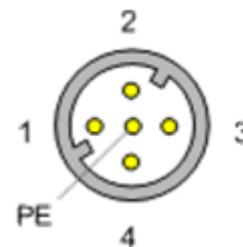
C-Coding male



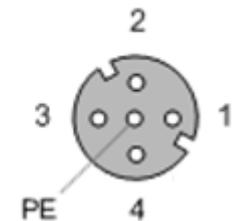
C-Coding female



P-Coding male



P-Coding female



Sensors
USA and Canada

M8/M12 – The applications

- Switches
 - M12 for Rugged Ethernet



- PLCs / Ethernet modules



M8/M12 - The applications

- I/O boxes (Actuator, Collector)
 - M8/M12 to connect to sensors and actuator
- Sensors
 - Cameras, movement, proximity, level, motion, etc...
- Actuators
 - Motor control (e.g. rotary), valves (solenoids), lights, etc...



TE Configurator



EASY TO USE

... walks you through the different options, attributes and characteristics with a straightforward and easy to use navigation.

EASY TO CHOOSE

... with the TE configurator you choose – and get - exactly what you were looking for

QUICK RESPONSE

... with a quick turn capability, immediate quotes and a fast delivery of your product is what TE is striving for.

YOUR CABLE CHOICE

... provides the ability for custom cable lengths.

YOUR NEEDS – YOUR CHOICE

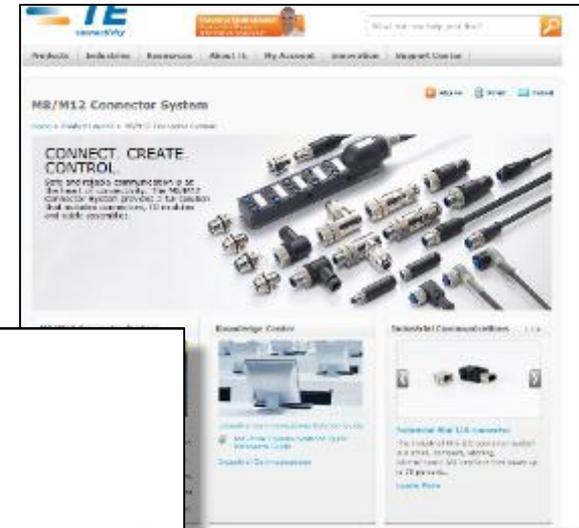
Don't bother with long lists of specifications, data and information that you are not interested in. Build an M8/M12 solution that fits your needs and your application.

Find more at...

M8/M12 homepage

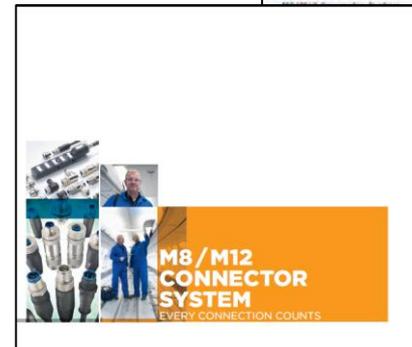
te.com/products/m8-m12

- Product information
- Further documents
- Order samples



M8/M12 catalog

- Complete overview of product portfolio
- Part numbers and drawings



M8/M12 Product Flyer

- M8/12 at a glance
- Preferred part numbers



te.com/products/m8-m12

**Making Every
Connection Count.
Especially The One We
Make With You.**

