M8/M12 CONNECTOR SYSTEM
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.

te.com/products/m8-m12
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.

[te.com/products/m8-m12]
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.

[te.com/products/m8-m12]
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.

[te.com/products/m8-m12]
### 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-convertors, motor operated switches, PSUs for Power, 620V, 12A
- **T-coding**: Fieldbus comp, passive distribution boxes, motors, PSUs for Power, 63V, 12A

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[te.com/products/m8-m12](te.com/products/m8-m12)  
IEC 61076-2-101
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

Sensors
USA and Canada

[te.com/products/m8-m12](http://te.com/products/m8-m12)
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

tec.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

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