



M12 X-CODE FIELD INSTALLABLE CONNECTOR

With TE Connectivity's latest M12 X-code Field Installable Connector, Installers and Machinery makers can make a Cat6A connection termination error free and tool-less, faster than alternative standard data connector solutions

With only two parts the latest TE Connectivity's M12 X-code FI Connector is easy to install in the field without the chance of dropping parts into places where they can not be recovered from. The cable leads can be stripped at arbitrary length (so no measuring upfront required) and will be terminated for optimal performance by the TE patented lever technology combined with the automatic wire cut off function integrated in the connector. This unique standardized tool-less connector series enables you to fasten assembly time to the cable and cable braid.

With the final closing of the connector, an error free 10 Gb/s connection (Cat6A) with IP67 (optionally IP68) environmental shielding is realized without the usage of any tools.

APPLICATIONS

- PLC
- Servo Drive
- Industrial Ethernet switches
- Industrial wireless access points
- Industrial Machinery
- Robotics

KEY FEATURES

- Insulation Displacement Contacts (IDC)
- Automatic wire cut-off function integrated in connector
- Tool-less assembly installation
- Speed up to 10 GB/s

BENEFIT STATEMENTS

- Fast, error-free installation because of reliable IDC contacts, automatic wire cut-off function integrated in the connector and tool-less installation.

- Terminates most common wire sizes - AWG 22-24-26, solid and stranded; Outer Cable Diameter 6.5mm..9.0mm
- Visible inspection of cable braid and wire assignment possible before final connector assembly

ELECTRICAL

- 4x2 pair, Cat6A, 60V Dielectric strength 1,5 kV AC rms (50/60Hz) / 60s between shield and signal contacts according to IEC 60512-2, test 4a.
- PoE: IEEE 802.3at, see IEC TR 29125: currents up to 1 A per pair (500 mA per conductor) with all 4 pairs energized.

MATERIALS

- UL94-V0

MECHANICAL

- Integrated Cable strain relief (100N).
- Operating temperature range -40°C to +85°C.
- Number of mating cycles > 100.
- Assembly of wires from AWG 22 up to AWG 26
- Re-assembly; 22AWG up to 3 times, AWG24/26 up to 7 times

STANDARDS & SPECIFICATIONS

- ISO/IEC 61076-2-109
- UL classification: UL E81956

M12 X-code Field Installable Connector

PRODUCT OFFERINGS

| Part Number | Description |
|---------------------------|---|
| 2327989-1 | M12 X-code Field Installable Cable Connector (easy connect) |

Wire Assignment

1



PreTermination

2



Complete Connector

4



Connector Closure

3



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