



M8/M12 CONNECTOR SYSTEM

M8/M12 CONNECTORS

TE's M8/M12 connectors continues to fill the ongoing needs for sensor connection in Industrial Machinery and Factory Automation. A connection standard for many years, these products also find applications outside of their traditional industries where a compact reliable connection system with environmental protection is required. TE's M8/M12 connector portfolio includes A, B, D, S, T, and X-coded (up to 10 Gb/s) versions to serve various customer needs. The connectors are also available in shielded and unshielded versions, to support Gigabit Ethernet applications.

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, 620 V, 12 A



T-coding: Fieldbus comp, passive distribution boxes, motors, PSUs for Power, 63 V, 12 A



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



Ambient temperature for M8:
-40 °C to 85 °C

Ambient temperature for M12:
-40 °C to 85 °C

Current rating:

4 and 5 pins: 4 A per pin

8 and 12 pins: 2 A per pin

IP rating: IP67/IP68

As specifications vary for different parts, please refer to your TE contact for detailed information.

Application Specifications for M8 M12 Connectors and Cable Assemblies:

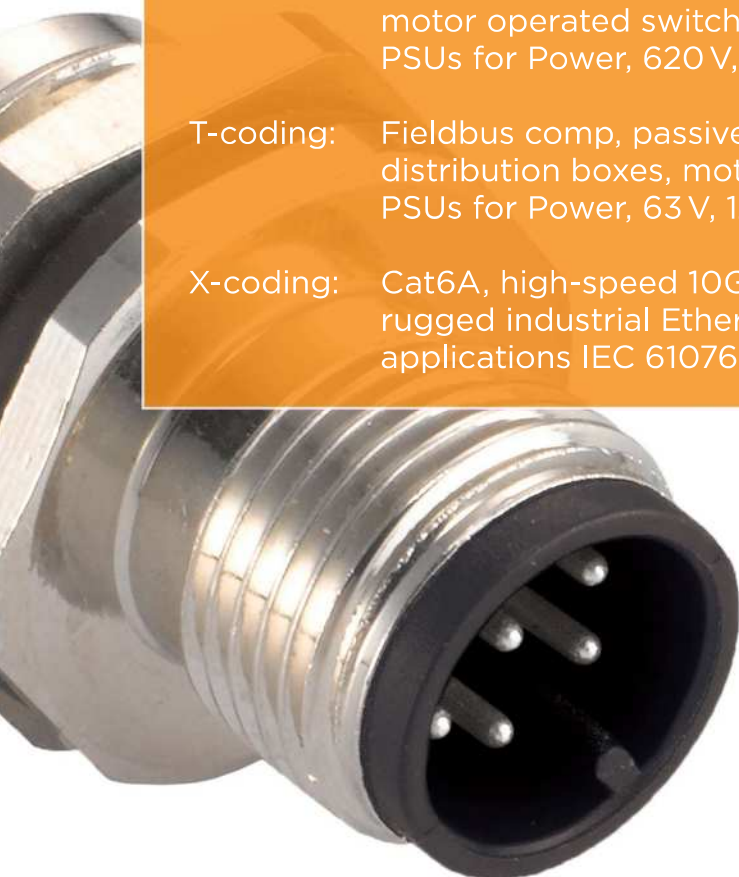
114-32127, 114-137008, 114-137144

Product Specifications:

Connectors: 108-3641, 108-19483,

108-106140

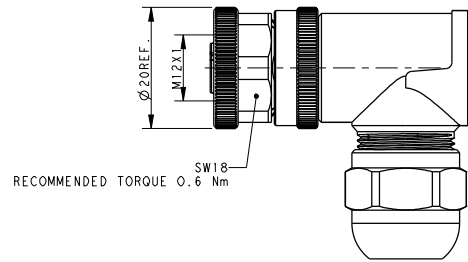
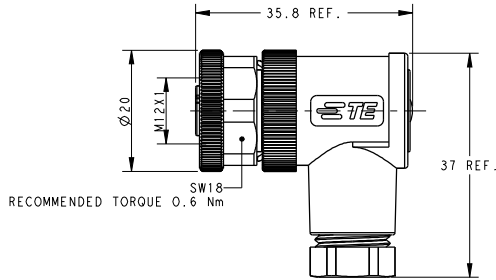
X-coded: 108-137008



| Size | Pins | Rated | Maximum Current per pin | Polution grade |
|------|------|-------|-------------------------|----------------|
| M8 | 3 | 60 V | 4 A | 3 |
| M8 | 4 | 30 V | 4 A | 3 |
| M12 | 3 | 250 V | 4 A | 3 |
| M12 | 4 | 250 V | 4 A | 3 |
| M12 | 5 | 125 V | 4 A | 3 |
| M12 | 8 | 60 V | 2 A | 3 |
| M12 | 12 | 30 V | 2 A | 3 |

M12 Angled Field Installable A, B, D Coded

Female Series



All dimensions in mm. Temperature range: -40 to +85 degree. Products can also be obtained with silver-plated contacts upon request.

| TE Part Number | | |
|--|-----|-----------------|
| A coding – M12 Female Screw Connection, Angled, Unshielded | | |
| 2-Pole | PG7 | T4112001021-000 |
| | PG9 | T4112002021-000 |
| 3-Pole | PG7 | T4112001031-000 |
| | PG9 | T4112002031-000 |
| 4-Pole | PG7 | T4112001041-000 |
| | PG9 | T4112002041-000 |
| 5-Pole | PG7 | T4112001051-000 |
| | PG9 | T4112002051-000 |
| 8-Pole | PG9 | T4112002081-000 |
| 12-Pole | PG9 | 6-2271128-2 |

| TE Part Number | | |
|--|-----|-----------------|
| A coding – M12 Female Screw Connection, Angled, Shielded | | |
| 2-Pole | PG7 | T4112011021-000 |
| | PG9 | T4112012021-000 |
| 3-Pole | PG7 | T4112011031-000 |
| | PG9 | T4112012031-000 |
| 4-Pole | PG7 | T4112011041-000 |
| | PG9 | T4112012041-000 |
| 5-Pole | PG7 | T4112011051-000 |
| | PG9 | T4112012051-000 |
| 8-Pole | PG9 | T4112012081-000 |
| 12-Pole | PG9 | 6-2271129-2 |

| TE Part Number | | |
|--|-----|-----------------|
| B coding – M12 Female Screw Connection, Angled, Unshielded | | |
| 2-Pole | PG7 | T4112401021-000 |
| | PG9 | T4112402021-000 |
| 3-Pole | PG7 | T4112401031-000 |
| | PG9 | T4112402031-000 |
| 4-Pole | PG7 | T4112401041-000 |
| | PG9 | T4112402041-000 |
| 5-Pole | PG7 | T4112401051-000 |
| | PG9 | T4112402051-000 |

| TE Part Number | | |
|--|-----|-----------------|
| B coding – M12 Female Screw Connection, Angled, Shielded | | |
| 2-Pole | PG7 | T4112411021-000 |
| | PG9 | T4112412021-000 |
| 3-Pole | PG7 | T4112411031-000 |
| | PG9 | T4112412031-000 |
| 4-Pole | PG7 | T4112411041-000 |
| | PG9 | T4112412041-000 |
| 5-Pole | PG7 | T4112411051-000 |
| | PG9 | T4112412051-000 |

| TE Part Number | | |
|--|-----|-----------------|
| D coding – M12 Female Screw Connection, Angled, Unshielded | | |
| 2-Pole | PG7 | T4112501021-000 |
| | PG9 | T4112502021-000 |
| 3-Pole | PG7 | T4112501031-000 |
| | PG9 | T4112502031-000 |
| 4-Pole | PG7 | T4112501041-000 |
| | PG9 | T4112502041-000 |
| 5-Pole | PG7 | T4112501051-000 |
| | PG9 | T4112502051-000 |

| TE Part Number | | |
|--|-----|-----------------|
| D coding – M12 Female Screw Connection, Angled, Shielded | | |
| 2-Pole | PG7 | T4112511021-000 |
| | PG9 | T4112512021-000 |
| 3-Pole | PG7 | T4112511031-000 |
| | PG9 | T4112512031-000 |
| 4-Pole | PG7 | T4112511041-000 |
| | PG9 | T4112512041-000 |
| 5-Pole | PG7 | T4112511051-000 |
| | PG9 | T4112512051-000 |