

# M8/M12 CONNECTOR SYSTEM

# TE CONNECTIVITY'S M8 / M12

Connector System for machine industrial automation and control applications provides a solution for the increasing needs of sensor connections that safely and reliably ensures the communication in industrial environments. This connector system also finds applications outside of its traditional industries where a compact reliable connection system with environmental protection is required. TE's solution includes an extensive connector range of PCB headers, cable assemblies and I/O boxes, and provides users with an interface that supports higher bandwidth needs – meeting the requirements of up to 10Gb/s.

TE Connectivity also offers shielded and un-shielded Cat5e and Cat6A cable assembly variants. A predefined offering in length of 1, 3, 5 and 10 meters covers a vast range of customer needs on the market. For rewiring on site a range of field serviceable connectors are provided, allowing versatile systems to be quickly and easily established. Additional styles are available on request including alternative mounting arrangements for panel mount connectors and double ended cable assemblies.



## TE'S INDUSTRIAL COMMUNICATIONS PRODUCTS PLAY A VITAL ROLE IN FACTORY AUTOMATION.

TE's industrial Communications products are widespread throughout today's networked factories, and play a critical role in driving the efficiency of many manufacturing processes. Used extensively in material handling equip-

ment, our industrial communications solutions are also found throughout the automotive and food and beverage industries, as well as in the many manufacturing applications of industrial robots. With the development of smaller

industrial Ethernet products, TE's solutions are also ideal for vision systems, common in security equipment and mail sortation devices.

# TE M8/M12 CONNECTOR SYSTEM – APPLICATIONS

## MACHINERY



## FACTORY AUTOMATION



TE's M8/M12 Connector System includes a broad range of straight, angled, LED and multi-position field installable and board connectors that are easily intermateable. Next to cable assemblies for Serial and Bus communication, TE also offers Industrial Ethernet patch cables with overmolded X-coded M12 connectors that are available for future proof applications with up to 10 Gb/s data transmission. Customized cable assemblies offer a solution for your specific needs in different lengths, temperatures or flexibility. 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.

# CONTENTS

|                                                 |       |
|-------------------------------------------------|-------|
| <b>CONNECTORS</b>                               | 4     |
| • TE Part Number Definition                     | 6-8   |
| • M8 Straight Field Installable                 | 9     |
| • M8 Angled Field Installable                   | 10    |
| • M8 Panel Mount R/A PCB                        | 11    |
| • M8 Panel Mount Straight PCB                   | 12    |
| • M8 Panel Mount Solder Wire                    | 13    |
| • M8 Panel Mount 200mm Wire                     | 14    |
| • M12 Straight Field Installable A, B, D coded  | 15-16 |
| • M12 Angled Field Installable A, B, D coded    | 17-19 |
| • M12 Panel Mount R/A PCB                       | 20-21 |
| • M12 Panel Mount Straight PCB – Rear Mounting  | 21    |
| • M12 Panel Mount Straight PCB – Front Mounting | 22    |
| • M12 Panel Mount Solder Wire – Rear Mounting   | 23    |
| • M12 Panel Mount Solder Wire – Front Mounting  | 24    |
| • M12 Panel Mount 200mm Wire – Front Mounting   | 25    |
| • M12 Panel Mount 200mm Wire – Rear Mounting    | 26    |
| • M12 S, T coded                                | 27    |
| • M12 X-Coded                                   | 28    |
| • ACCESSORIES                                   | 29-30 |
| <b>CABLE ASSEMBLIES</b>                         | 31    |
| • M8 Series Male                                | 32    |
| • M8 Series Female                              | 33    |
| • M12 Series Male Straight                      | 34    |
| • M12 Series Female Straight                    | 35-36 |
| • M12 Series Male Angled                        | 37    |
| • M12 Series Female Angled                      | 37    |
| • M12 Series Male to Female Y-cables            | 38    |
| • M8 Male to M12 Female Series                  | 38    |
| • M8 Female to M12 Male Series                  | 38    |
| • M12 Male to M12 Female Series                 | 39    |
| • M8 Female to M8 Male Series LED               | 40    |
| • M12 Female to M12 Male Series LED             | 40    |
| • Cable Assembly Notes                          | 41    |
| <b>I/O MODULES</b>                              | 42    |
| • M8 – With Cable                               | 43    |
| • M8 – With M12 Plug Connection                 | 44    |
| • M12 – With Cable                              | 45    |
| • M12 – No Cable/With Cable Gland               | 46    |
| • M8/M12 Website                                | 47    |



# 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

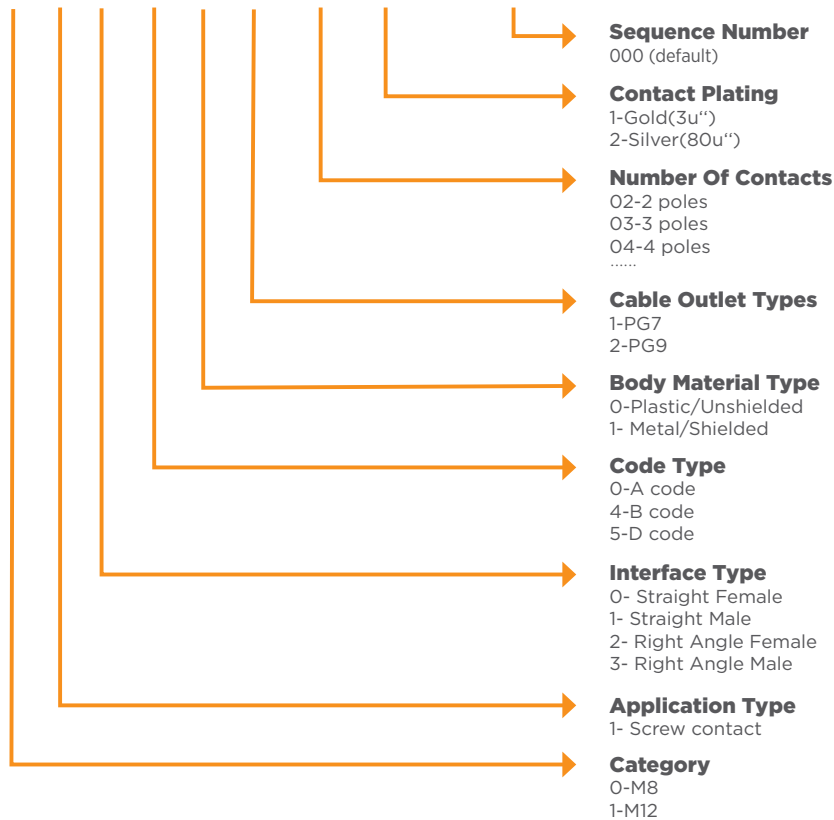
X-coded: 108-137008

| 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              |

# TE Part Number Definition

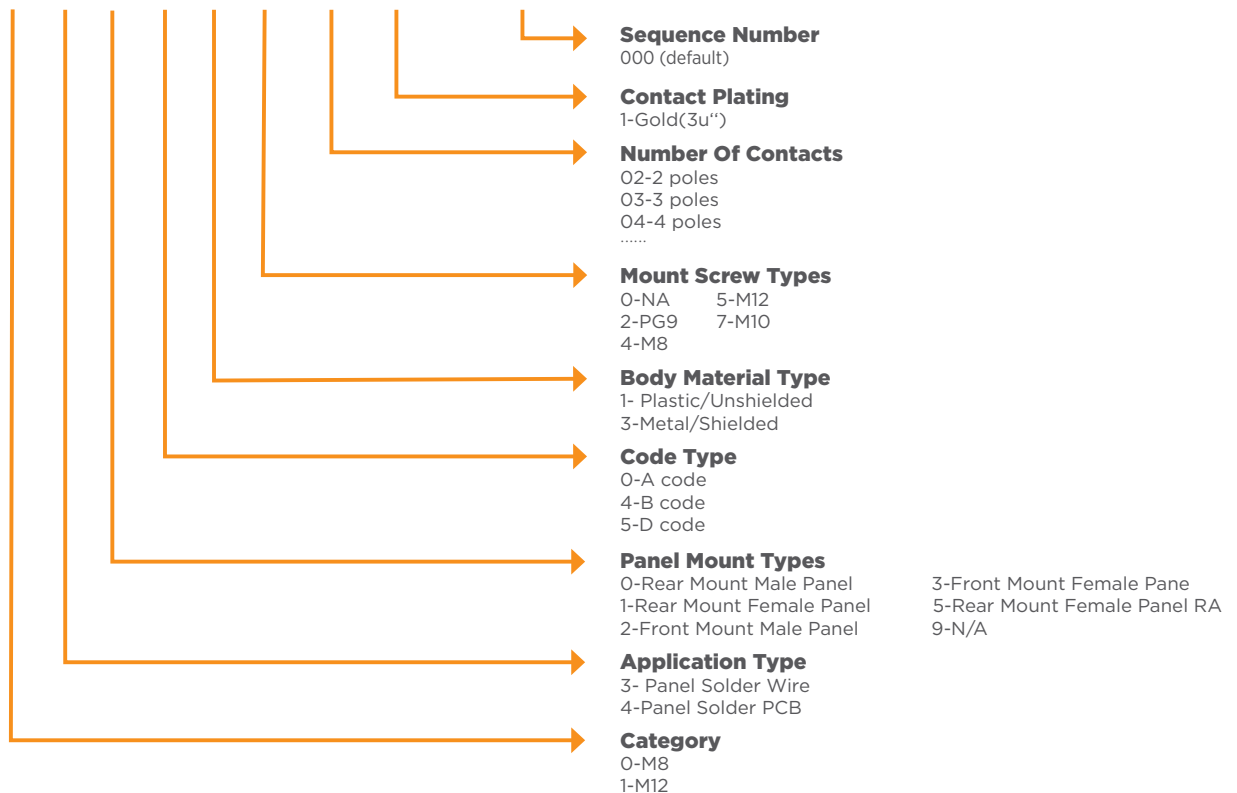
M8M12 Field Installable Connector PNs: T401/T411

T 4 X 1 X X X XX X - XXX



M8M12 Panel Mount Connector PNs: T403/T404/T413/T414/T407

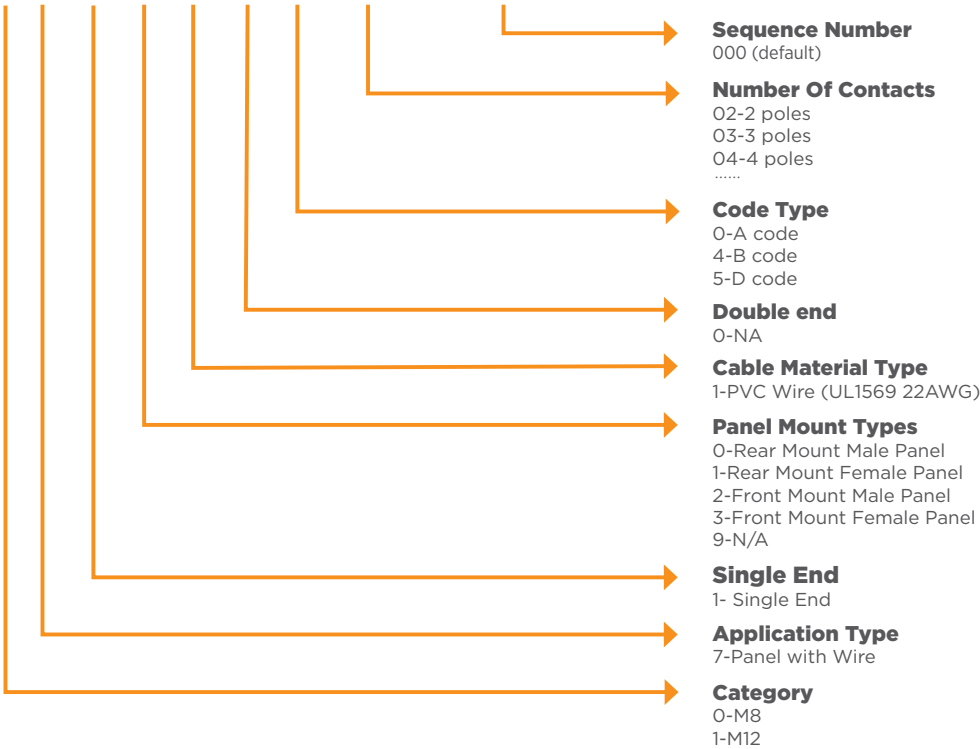
T 4 X X X X X XX X - XXX



# TE Part Number Definition

M8M12 Panel Mount Connector with Wire PNs: T407/T417

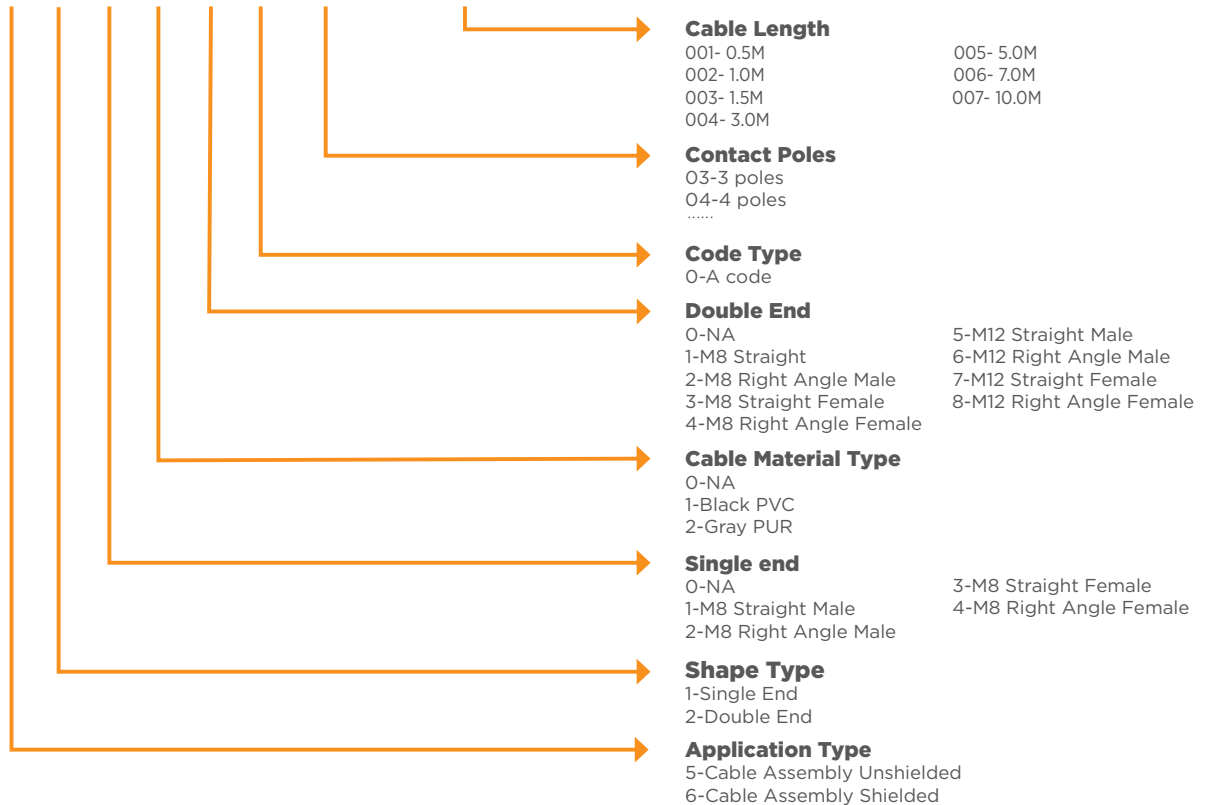
T 4 X 7 X X X X X XX – XXX



# TE Part Number Definition

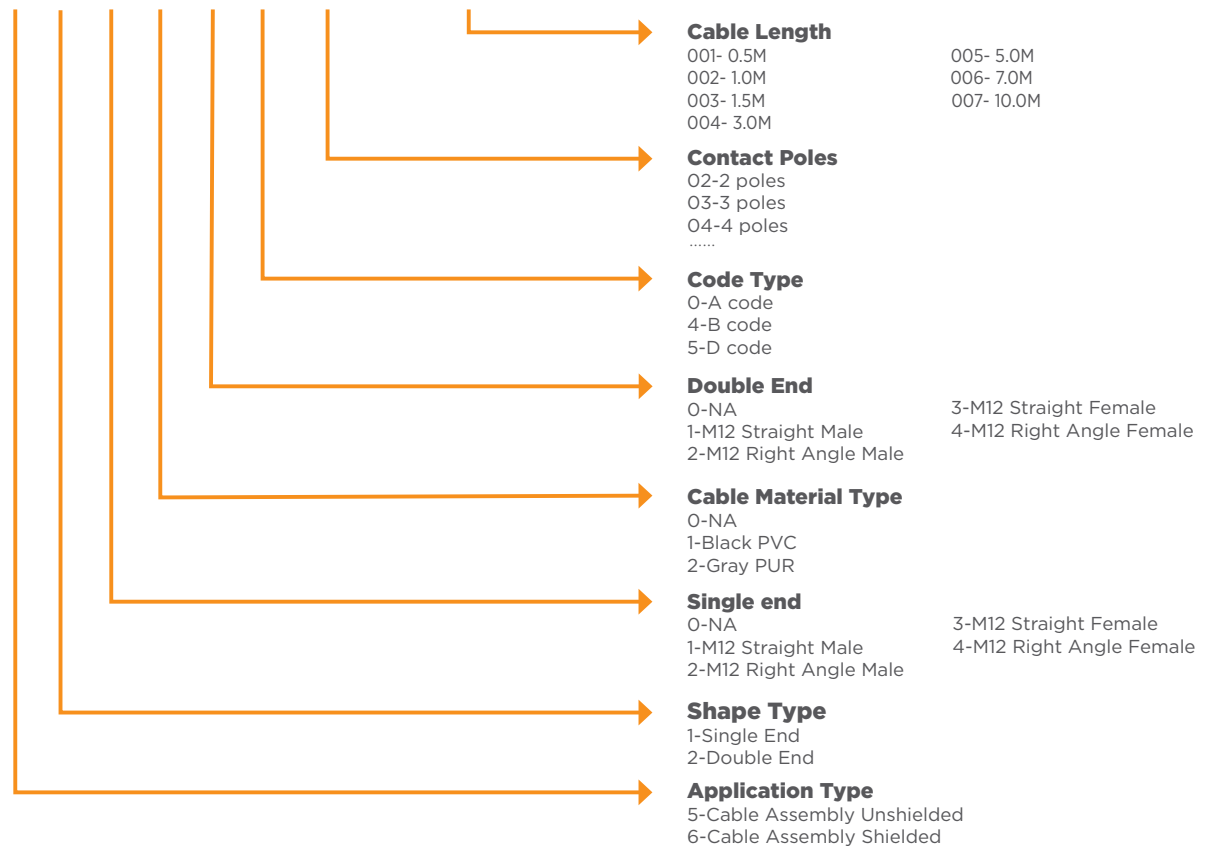
M8 Cable Assembly PNs: T405/T406

T 4 0 X X X X X XX – 00X



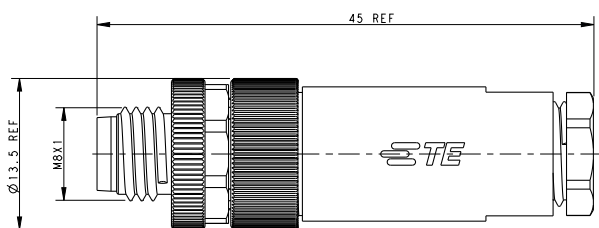
M12 Cable Assembly PNs: T415/T416

T 4 1 X X X X X XX – 00X

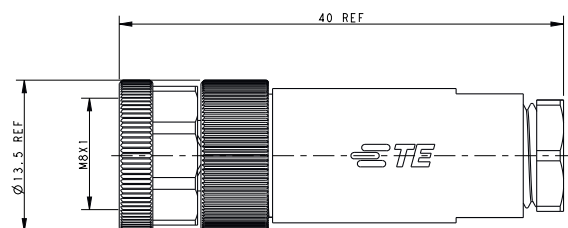


# M8 Straight Field Installable

## Male Series



## 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                                 |                 |
|------------------------------------------------|-----------------|
| M8 Male Screw Connection, Straight, Unshielded |                 |
| 3-Pole                                         | T4011008031-000 |
| 4-Pole                                         | T4011008041-000 |

| M8 Male Screw Connection, Straight, Shielded |                 |
|----------------------------------------------|-----------------|
| 3-Pole                                       | T4011019031-000 |
| 4-Pole                                       | T4011019041-000 |

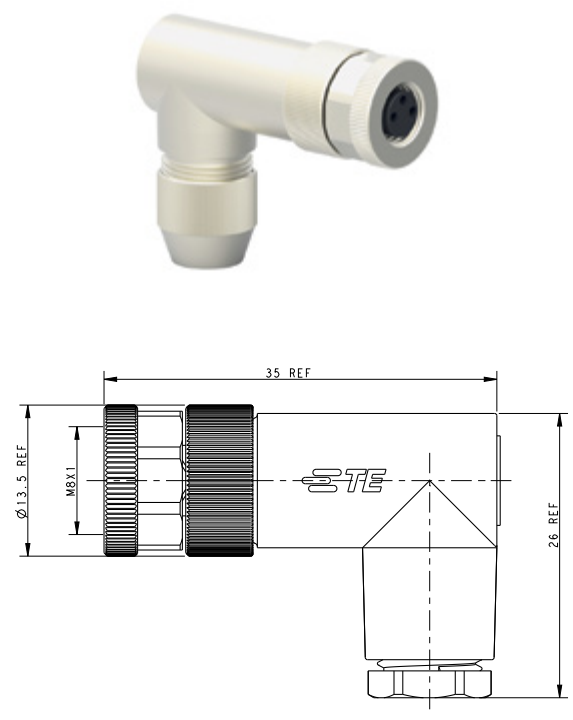
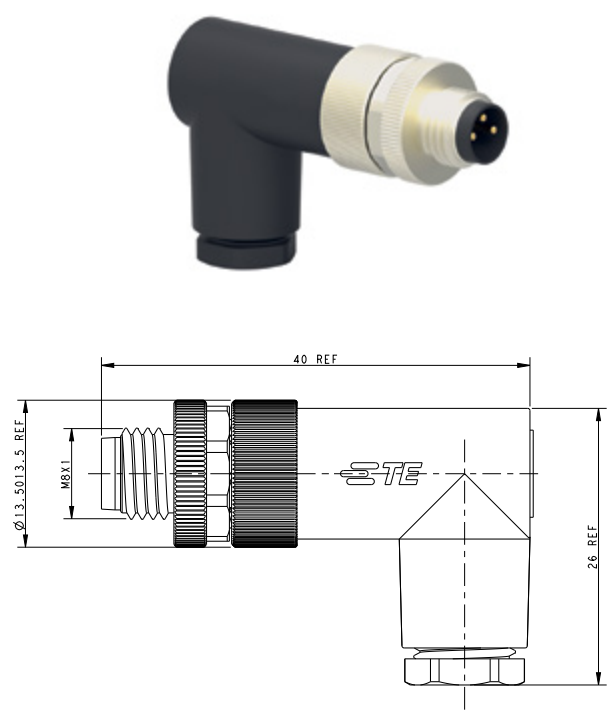
| TE Part Number                                   |                 |
|--------------------------------------------------|-----------------|
| M8 Female Screw Connection, Straight, Unshielded |                 |
| 3-Pole                                           | T4010008031-000 |
| 4-Pole                                           | T4010008041-000 |

| M8 Female Screw Connection, Straight, Shielded |                 |
|------------------------------------------------|-----------------|
| 3-Pole                                         | T4010019031-000 |
| 4-Pole                                         | T4010019041-000 |

# M8 Angled Field Installable

## Male Series

## 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                          |                 |
|-----------------------------------------|-----------------|
| <b>M8 Male Right Angled, Unshielded</b> |                 |
| 3-Pole                                  | T4013008031-000 |
| 4-Pole                                  | T4013008041-000 |

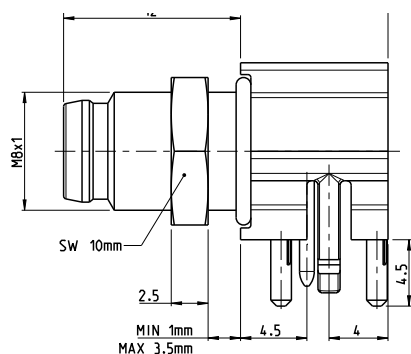
|                                       |                 |
|---------------------------------------|-----------------|
| <b>M8 Male Right Angled, Shielded</b> |                 |
| 3-Pole                                | T4013019031-000 |
| 4-Pole                                | T4013019041-000 |

| TE Part Number                            |                 |
|-------------------------------------------|-----------------|
| <b>M8 Female Right Angled, Unshielded</b> |                 |
| 3-Pole                                    | T4012008031-000 |
| 4-Pole                                    | T4012008041-000 |

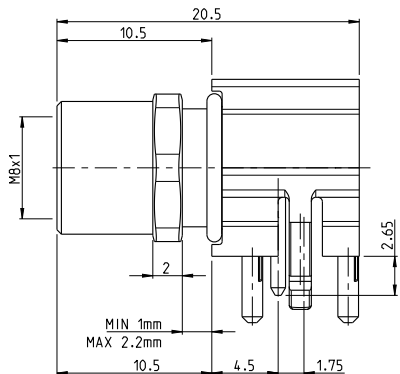
|                                         |                 |
|-----------------------------------------|-----------------|
| <b>M8 Female Right Angled, Shielded</b> |                 |
| 3-Pole                                  | T4010019031-000 |
| 4-Pole                                  | T4010019041-000 |

# M8 Panel Mount R/A PCB

## Male Series



## Female Series



All dimensions in mm. Temperature range: -40 to +85 degree.

| TE Part Number                                    |             |
|---------------------------------------------------|-------------|
| <b>M8, Male, Rear Mount, PCB, R/A, Unshielded</b> |             |
| 3-Pole                                            | 2-2172067-2 |
| 4-Pole                                            | 3-2172067-2 |

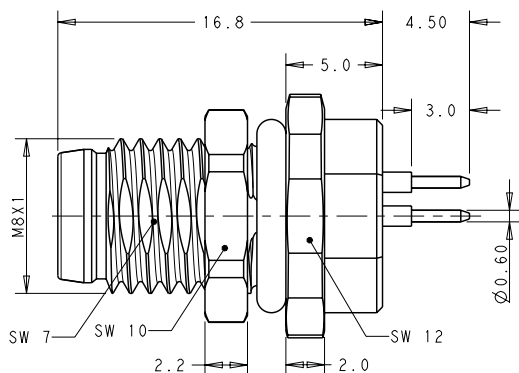
|                                                 |             |
|-------------------------------------------------|-------------|
| <b>M8, Male, Rear Mount, PCB, R/A, Shielded</b> |             |
| 3-Pole                                          | 2-2172093-2 |
| 4-Pole                                          | 3-2172093-2 |

| TE Part Number                                      |             |
|-----------------------------------------------------|-------------|
| <b>M8, Female, Rear Mount, PCB, R/A, Unshielded</b> |             |
| 3-Pole                                              | 2-2172068-2 |
| 4-Pole                                              | 3-2172068-2 |

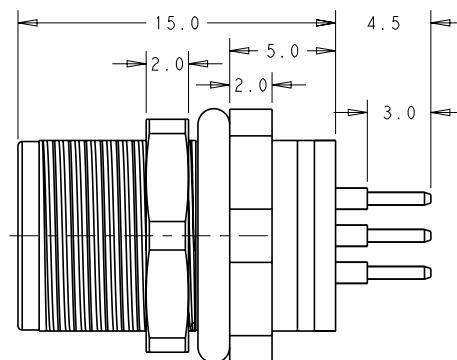
|                                                   |             |
|---------------------------------------------------|-------------|
| <b>M8, Female, Rear Mount, PCB, R/A, Shielded</b> |             |
| 3-Pole                                            | 2-2172091-2 |
| 4-Pole                                            | 3-2172091-2 |

# M8 Panel Mount Straight PCB

## Male Series



## 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                                         |                 |
|--------------------------------------------------------|-----------------|
| <b>M8, Male, Rear Mount, PCB, Straight, Unshielded</b> |                 |
| 3-Pole                                                 | T4040014031-000 |
| 4-Pole                                                 | T4040014041-000 |

|                                                         |                 |
|---------------------------------------------------------|-----------------|
| <b>M8, Male, Front Mount, PCB, Straight, Unshielded</b> |                 |
| 3-Pole                                                  | T4042014031-000 |
| 4-Pole                                                  | T4042014041-000 |

|                                                      |                 |
|------------------------------------------------------|-----------------|
| <b>M8, Male, Rear Mount, PCB, Straight, Shielded</b> |                 |
| 3-Pole                                               | T4040034031-000 |
| 4-Pole                                               | T4040034041-000 |

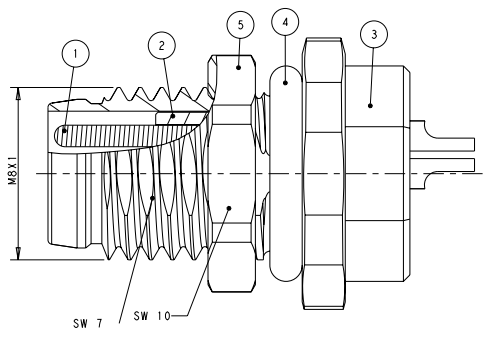
| TE Part Number                                           |                 |
|----------------------------------------------------------|-----------------|
| <b>M8, Female, Rear Mount, PCB, Straight, Unshielded</b> |                 |
| 3-Pole                                                   | T4041017031-000 |
| 4-Pole                                                   | T4041017041-000 |

|                                                           |                 |
|-----------------------------------------------------------|-----------------|
| <b>M8, Female, Front Mount, PCB, Straight, Unshielded</b> |                 |
| 3-Pole                                                    | T4043014031-000 |
| 4-Pole                                                    | T4043014041-000 |

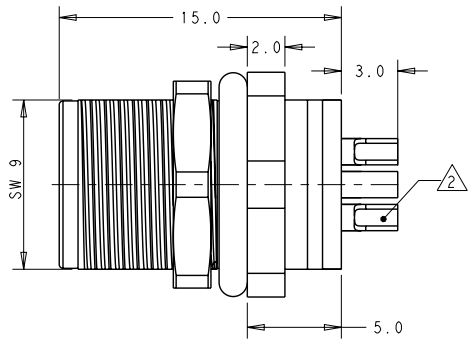
|                                                        |                 |
|--------------------------------------------------------|-----------------|
| <b>M8, Female, Rear Mount, PCB, Straight, Shielded</b> |                 |
| 3-Pole                                                 | T4041037031-000 |
| 4-Pole                                                 | T4041037041-000 |

# M8 Panel Mount Solder Wire

## Male Series



## Female Series



All dimensions in mm. Temperature range: -40 to +85 degree.

| TE Part Number                                     |                 |
|----------------------------------------------------|-----------------|
| <b>M8, Male, Rear Mount, Solder Wire, Straight</b> |                 |
| 3-Pole                                             | T4030014031-000 |
| 4-Pole                                             | T4030014041-000 |

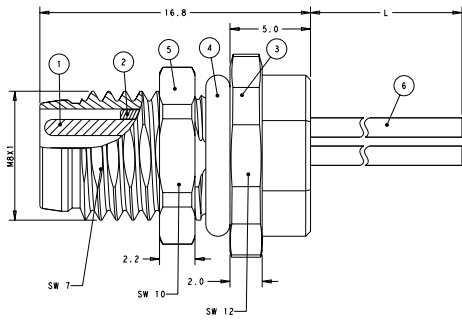
|                                                     |                 |
|-----------------------------------------------------|-----------------|
| <b>M8, Male, Front Mount, Solder Wire, Straight</b> |                 |
| 3-Pole                                              | T4032014031-000 |
| 4-Pole                                              | T4032014041-000 |

| TE Part Number                                       |                 |
|------------------------------------------------------|-----------------|
| <b>M8, Female, Rear Mount, Solder Wire, Straight</b> |                 |
| 3-Pole                                               | T4031017031-000 |
| 4-Pole                                               | T4031017041-000 |

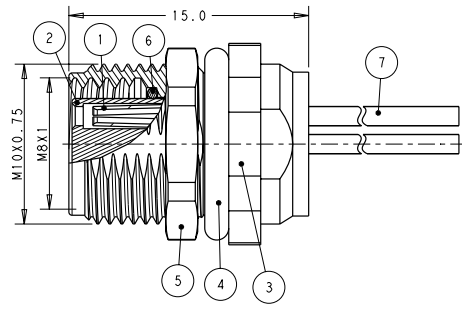
|                                                       |                 |
|-------------------------------------------------------|-----------------|
| <b>M8, Female, Front Mount, Solder Wire, Straight</b> |                 |
| 3-Pole                                                | T4033014031-000 |
| 4-Pole                                                | T4033014041-000 |

# M8 Panel Mount 200mm Wire

## Male Series



## Female Series



All dimensions in mm. Temperature range: -40 to +85 degree.

| TE Part Number                                    |                 |
|---------------------------------------------------|-----------------|
| <b>M8, Male, Rear Mount, 200mm Wire, Straight</b> |                 |
| 3-Pole                                            | T4070014031-001 |
| 4-Pole                                            | T4070014041-001 |

|                                                    |                 |
|----------------------------------------------------|-----------------|
| <b>M8, Male, Front Mount, 200mm Wire, Straight</b> |                 |
| 3-Pole                                             | T4070014031-001 |
| 4-Pole                                             | T4070014041-001 |

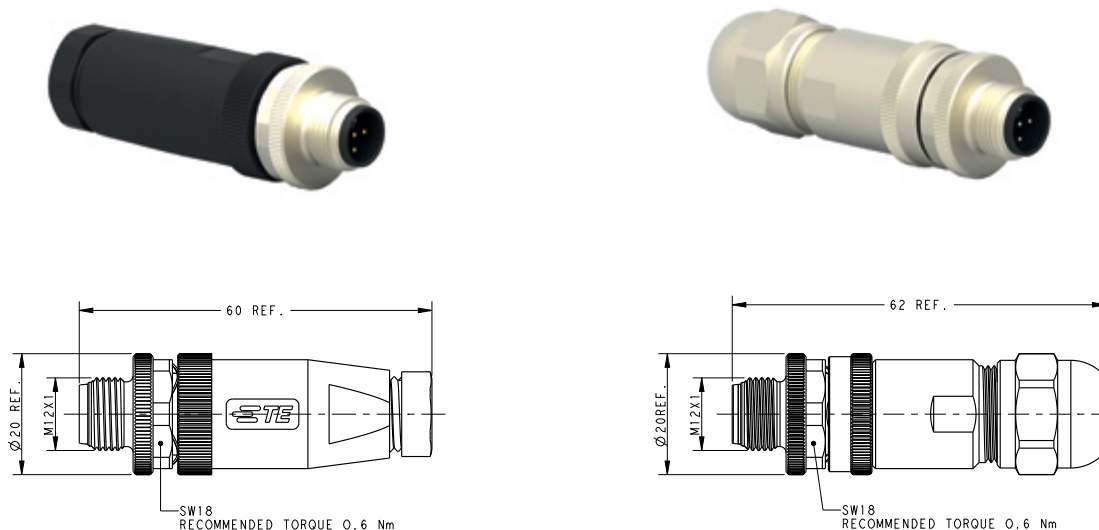
| TE Part Number                                      |                 |
|-----------------------------------------------------|-----------------|
| <b>M8, Female, Rear Mount, 200mm Wire, Straight</b> |                 |
| 3-Pole                                              | T4071017031-001 |
| 4-Pole                                              | T4071017041-001 |

|                                                      |                 |
|------------------------------------------------------|-----------------|
| <b>M8, Female, Front Mount, 200mm Wire, Straight</b> |                 |
| 3-Pole                                               | T4073014031-001 |
| 4-Pole                                               | T4073014041-001 |



# M12 Straight Field Installable A, B, D Coded

## Male 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 Male Screw Connection, Straight, Unshielded |     |                 |
| 2-Pole                                                     | PG7 | T4111001021-000 |
|                                                            | PG9 | T4111002021-000 |
| 3-Pole                                                     | PG7 | T4111001031-000 |
|                                                            | PG9 | T4111002031-000 |
| 4-Pole                                                     | PG7 | T4111001041-000 |
|                                                            | PG9 | T4111002041-000 |
| 5-Pole                                                     | PG7 | T4111001051-000 |
|                                                            | PG9 | T4111002051-000 |
| 8-Pole                                                     | PG9 | T4111002081-000 |
| 12-Pole                                                    | PG9 | 6-2271110-2     |

| B coding – M12 Male Screw Connection, Straight, Unshielded |     |                 |
|------------------------------------------------------------|-----|-----------------|
| 2-Pole                                                     | PG7 | T4111401021-000 |
|                                                            | PG9 | T4111402021-000 |
| 3-Pole                                                     | PG7 | T4111401031-000 |
|                                                            | PG9 | T4111402031-000 |
| 4-Pole                                                     | PG7 | T4111401041-000 |
|                                                            | PG9 | T4111402041-000 |
| 5-Pole                                                     | PG7 | T4111401051-000 |
|                                                            | PG9 | T4111402051-000 |

| D coding – M12 Male Screw Connection, Straight, Unshielded |     |                 |
|------------------------------------------------------------|-----|-----------------|
| 2-Pole                                                     | PG7 | T4111501021-000 |
|                                                            | PG9 | T4111502021-000 |
| 3-Pole                                                     | PG7 | T4111501031-000 |
|                                                            | PG9 | T4111502031-000 |
| 4-Pole                                                     | PG7 | T4111501041-000 |
|                                                            | PG9 | T4111502041-000 |
| 5-Pole                                                     | PG7 | T4111501051-000 |
|                                                            | PG9 | T4111502051-000 |

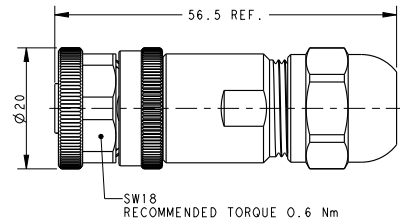
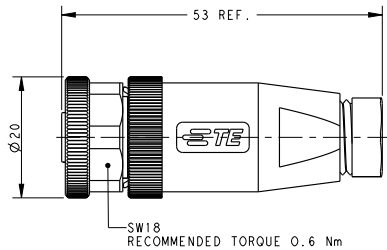
| TE Part Number                                           |     |                 |
|----------------------------------------------------------|-----|-----------------|
| A coding – M12 Male Screw Connection, Straight, Shielded |     |                 |
| 2-Pole                                                   | PG7 | T4111011021-000 |
|                                                          | PG9 | T4111012021-000 |
| 3-Pole                                                   | PG7 | T4111011031-000 |
|                                                          | PG9 | T4111012031-000 |
| 4-Pole                                                   | PG7 | T4111011041-000 |
|                                                          | PG9 | T4111012041-000 |
| 5-Pole                                                   | PG7 | T4111011051-000 |
|                                                          | PG9 | T4111012051-000 |
| 8-Pole                                                   | PG9 | T4111012081-000 |
| 12-Pole                                                  | PG9 | 6-2271111-2     |

| B coding – M12 Male Screw Connection, Straight, Shielded |     |                 |
|----------------------------------------------------------|-----|-----------------|
| 2-Pole                                                   | PG7 | T4111411021-000 |
|                                                          | PG9 | T4111412021-000 |
| 3-Pole                                                   | PG7 | T4111411031-000 |
|                                                          | PG9 | T4111412031-000 |
| 4-Pole                                                   | PG7 | T4111411041-000 |
|                                                          | PG9 | T4111412041-000 |
| 5-Pole                                                   | PG7 | T4111411051-000 |
|                                                          | PG9 | T4111412051-000 |

| D coding – M12 Male Screw Connection, Straight, Shielded |     |                 |
|----------------------------------------------------------|-----|-----------------|
| 2-Pole                                                   | PG7 | T4111511021-000 |
|                                                          | PG9 | T4111512021-000 |
| 3-Pole                                                   | PG7 | T4111511031-000 |
|                                                          | PG9 | T4111512031-000 |
| 4-Pole                                                   | PG7 | T4111511041-000 |
|                                                          | PG9 | T4111512041-000 |
| 5-Pole                                                   | PG7 | T4111511051-000 |
|                                                          | PG9 | T4111512051-000 |

# M12 Straight 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, Straight, Unshielded |     |                 |
| 2-Pole                                                       | PG7 | T4110001021-000 |
|                                                              | PG9 | T4110002021-000 |
| 3-Pole                                                       | PG7 | T4110001031-000 |
|                                                              | PG9 | T4110002031-000 |
| 4-Pole                                                       | PG7 | T4110001041-000 |
|                                                              | PG9 | T4110002041-000 |
| 5-Pole                                                       | PG7 | T4110001051-000 |
|                                                              | PG9 | T4110002051-000 |
| 8-Pole                                                       | PG9 | T4110002081-000 |
| 12-Pole                                                      | PG9 | 6-2271116-2     |

| B coding – M12 Female Screw Connection, Straight, Unshielded |     |                 |
|--------------------------------------------------------------|-----|-----------------|
| 2-Pole                                                       | PG7 | T4110401021-000 |
|                                                              | PG9 | T4110402021-000 |
| 3-Pole                                                       | PG7 | T4110401031-000 |
|                                                              | PG9 | T4110402031-000 |
| 4-Pole                                                       | PG7 | T4110401041-000 |
|                                                              | PG9 | T4110402041-000 |
| 5-Pole                                                       | PG7 | T4110401051-000 |
|                                                              | PG9 | T4110402051-000 |

| D coding – M12 Female Screw Connection, Straight, Unshielded |     |                 |
|--------------------------------------------------------------|-----|-----------------|
| 2-Pole                                                       | PG7 | T4110501021-000 |
|                                                              | PG9 | T4110502021-000 |
| 3-Pole                                                       | PG7 | T4110501031-000 |
|                                                              | PG9 | T4110502031-000 |
| 4-Pole                                                       | PG7 | T4110501041-000 |
|                                                              | PG9 | T4110502041-000 |
| 5-Pole                                                       | PG7 | T4110501051-000 |
|                                                              | PG9 | T4110502051-000 |

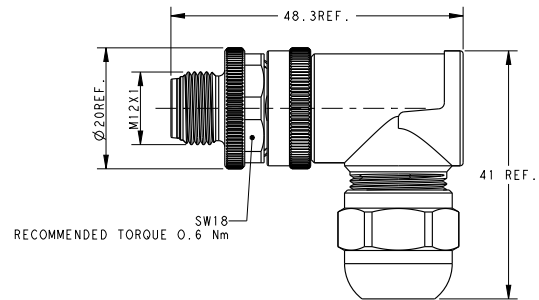
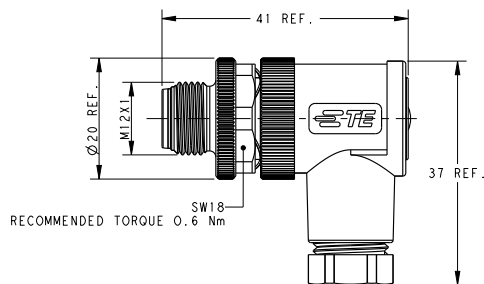
| TE Part Number                                             |     |                 |
|------------------------------------------------------------|-----|-----------------|
| A coding – M12 Female Screw Connection, Straight, Shielded |     |                 |
| 2-Pole                                                     | PG7 | T4110011021-000 |
|                                                            | PG9 | T4110012021-000 |
| 3-Pole                                                     | PG7 | T4110011031-000 |
|                                                            | PG9 | T4110012031-000 |
| 4-Pole                                                     | PG7 | T4110011041-000 |
|                                                            | PG9 | T4110012041-000 |
| 5-Pole                                                     | PG7 | T4110011051-000 |
|                                                            | PG9 | T4110012051-000 |
| 8-Pole                                                     | PG9 | T4110012081-000 |
| 12-Pole                                                    | PG9 | 6-2271117-2     |

| B coding – M12 Female Screw Connection, Straight, Shielded |     |                 |
|------------------------------------------------------------|-----|-----------------|
| 2-Pole                                                     | PG7 | T4110411021-000 |
|                                                            | PG9 | T4110412021-000 |
| 3-Pole                                                     | PG7 | T4110411031-000 |
|                                                            | PG9 | T4110412031-000 |
| 4-Pole                                                     | PG7 | T4110411041-000 |
|                                                            | PG9 | T4110412041-000 |
| 5-Pole                                                     | PG7 | T4110411051-000 |
|                                                            | PG9 | T4110412051-000 |

| D coding – M12 Female Screw Connection, Straight, Shielded |     |                 |
|------------------------------------------------------------|-----|-----------------|
| 2-Pole                                                     | PG7 | T4110511021-000 |
|                                                            | PG9 | T4110512021-000 |
| 3-Pole                                                     | PG7 | T4110511031-000 |
|                                                            | PG9 | T4110512031-000 |
| 4-Pole                                                     | PG7 | T4110511041-000 |
|                                                            | PG9 | T4110512041-000 |
| 5-Pole                                                     | PG7 | T4110511051-000 |
|                                                            | PG9 | T4110512051-000 |

# M12 Angled Field Installable A, B, D coded

## Male Series



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

| Temperature range: -25 to +85                            |     | TE Part Number  |
|----------------------------------------------------------|-----|-----------------|
| A coding – M12 Male Screw Connection, Angled, Unshielded |     |                 |
| 2-Pole                                                   | PG7 | T4113001021-000 |
|                                                          | PG9 | T4113002021-000 |
| 3-Pole                                                   | PG7 | T4113001031-000 |
|                                                          | PG9 | T4113002031-000 |
| 4-Pole                                                   | PG7 | T4113001041-000 |
|                                                          | PG9 | T4113002041-000 |
| 5-Pole                                                   | PG7 | T4113001051-000 |
|                                                          | PG9 | T4113002051-000 |
| 8-Pole                                                   | PG9 | T4113002081-000 |
| 12-Pole                                                  | PG9 | 6-2271122-2     |

| B coding – M12 Male Screw Connection, Angled, Unshielded |     |                 |
|----------------------------------------------------------|-----|-----------------|
| 2-Pole                                                   | PG7 | T4113401021-000 |
|                                                          | PG9 | T4113402021-000 |
| 3-Pole                                                   | PG7 | T4113401031-000 |
|                                                          | PG9 | T4113402031-000 |
| 4-Pole                                                   | PG7 | T4113401041-000 |
|                                                          | PG9 | T4113402041-000 |
| 5-Pole                                                   | PG7 | T4113401051-000 |
|                                                          | PG9 | T4113402051-000 |

| D coding – M12 Male Screw Connection, Angled, Unshielded |     |                 |
|----------------------------------------------------------|-----|-----------------|
| 2-Pole                                                   | PG7 | T4113501021-000 |
|                                                          | PG9 | T4113502021-000 |
| 3-Pole                                                   | PG7 | T4113501031-000 |
|                                                          | PG9 | T4113502031-000 |
| 4-Pole                                                   | PG7 | T4113501041-000 |
|                                                          | PG9 | T4113502041-000 |
| 5-Pole                                                   | PG7 | T4113501051-000 |
|                                                          | PG9 | T4113502051-000 |

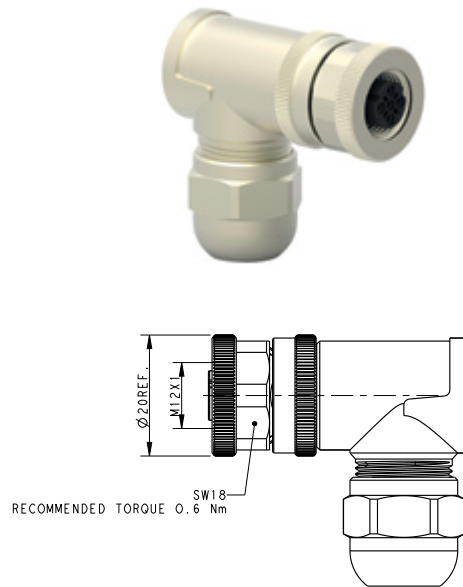
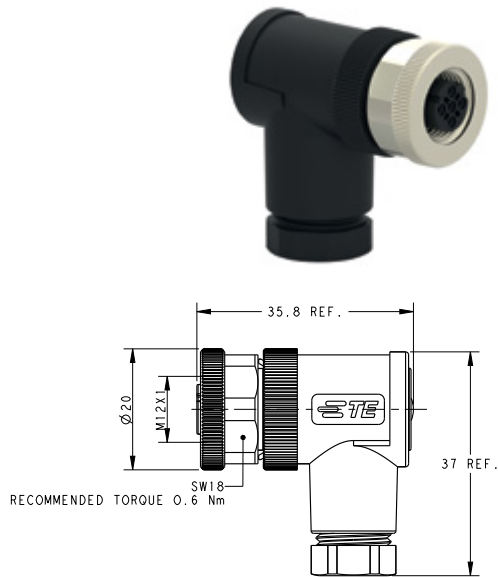
| TE Part Number                                         |     |                 |
|--------------------------------------------------------|-----|-----------------|
| A coding – M12 Male Screw Connection, Angled, Shielded |     |                 |
| 2-Pole                                                 | PG7 | T4113011021-000 |
|                                                        | PG9 | T4113012021-000 |
| 3-Pole                                                 | PG7 | T4113011031-000 |
|                                                        | PG9 | T4113012031-000 |
| 4-Pole                                                 | PG7 | T4113011041-000 |
|                                                        | PG9 | T4113012041-000 |
| 5-Pole                                                 | PG7 | T4113011051-000 |
|                                                        | PG9 | T4113012051-000 |
| 8-Pole                                                 | PG9 | T4113012081-000 |
| 12-Pole                                                | PG9 | 6-2271123-2     |

| B coding – M12 Male Screw Connection, Angled, Shielded |     |                 |
|--------------------------------------------------------|-----|-----------------|
| 2-Pole                                                 | PG7 | T4113411021-000 |
|                                                        | PG9 | T4113412021-000 |
| 3-Pole                                                 | PG7 | T4113411031-000 |
|                                                        | PG9 | T4113412031-000 |
| 4-Pole                                                 | PG7 | T4113411041-000 |
|                                                        | PG9 | T4113412041-000 |
| 5-Pole                                                 | PG7 | T4113411051-000 |
|                                                        | PG9 | T4113412051-000 |

| D coding – M12 Male Screw Connection, Angled, Shielded |     |                 |
|--------------------------------------------------------|-----|-----------------|
| 2-Pole                                                 | PG7 | T4113511021-000 |
|                                                        | PG9 | T4113512021-000 |
| 3-Pole                                                 | PG7 | T4113511031-000 |
|                                                        | PG9 | T4113512031-000 |
| 4-Pole                                                 | PG7 | T4113511041-000 |
|                                                        | PG9 | T4113512041-000 |
| 5-Pole                                                 | PG7 | T4113511051-000 |
|                                                        | PG9 | T4113512051-000 |

# 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     |

| 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 |

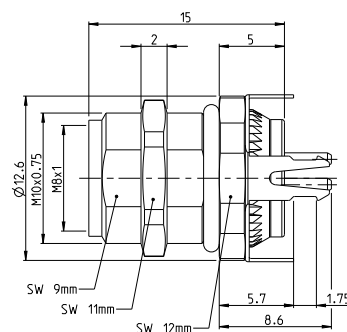
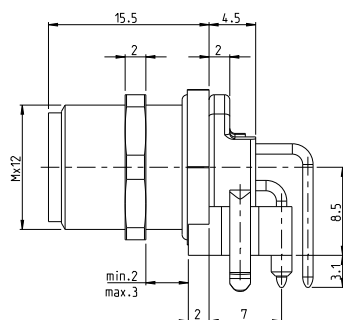
| B coding – M12 Female Screw Connection, Angled, Shielded |     |                 |
|----------------------------------------------------------|-----|-----------------|
| 2-Pole                                                   | PG7 | T4112411021-000 |
|                                                          | 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 |

| 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 |

| 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 |

# M12 Panel Mount R/A PCB

## Male Series



All dimensions in mm. Temperature range: -40 to +85 degree.

| TE Part Number                                         |             |
|--------------------------------------------------------|-------------|
| A coding – M12, Male, Rear Mount, PCB, R/A, Unshielded |             |
| 4-Pole                                                 | 3-2172062-2 |
| 5-Pole                                                 | 4-2172062-2 |

| A coding – M12, Male, Rear Mount, PCB, R/A, Shielded |             |
|------------------------------------------------------|-------------|
| 4-Pole (45 degrees)                                  | 3-2172094-2 |
| 4-Pole                                               | 3-2172081-2 |
| 5-Pole                                               | 4-2172081-2 |
| 8-Pole                                               | 5-2172081-2 |

| TE Part Number                                         |             |
|--------------------------------------------------------|-------------|
| B coding – M12, Male, Rear Mount, PCB, R/A, Unshielded |             |
| 5-Pole                                                 | 4-2172082-2 |

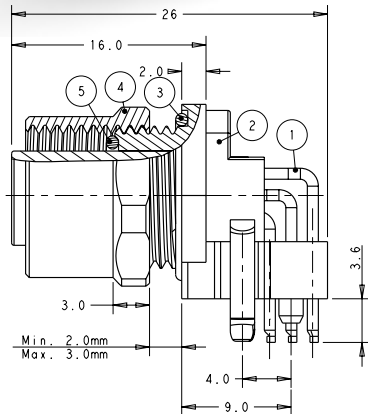
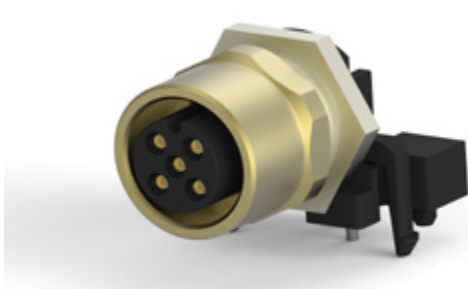
| B coding – M12, Male, Rear Mount, PCB, R/A, Shielded |             |
|------------------------------------------------------|-------------|
| 5-Pole                                               | 4-2172063-2 |

| D coding – M12, Male, Rear Mount, PCB, R/A, Unshielded |             |
|--------------------------------------------------------|-------------|
| 4-Pole                                                 | 3-2172086-2 |

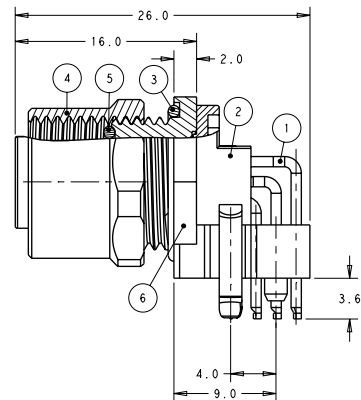
| D coding – M12, Male, Rear Mount, PCB, R/A, Shielded |             |
|------------------------------------------------------|-------------|
| 4-Pole                                               | 3-2172065-2 |

# M12 Panel Mount R/A PCB

## Female Series



All dimensions in mm. Temperature range: -40 to +85 degree.



| TE Part Number                                           |                 |
|----------------------------------------------------------|-----------------|
| A coding - M12, Female, Rear Mount, PCB, R/A, Unshielded |                 |
| 2-Pole                                                   | T4145015021-001 |
| 3-Pole                                                   | T4145015031-001 |
| 4-Pole                                                   | T4145015041-001 |
| 5-Pole                                                   | T4145015051-001 |

| A coding - M12, Female, Rear Mount, PCB, R/A, Shielded |                 |
|--------------------------------------------------------|-----------------|
| 2-Pole                                                 | T4145035021-001 |
| 3-Pole                                                 | T4145035031-001 |
| 4-Pole                                                 | T4145035041-001 |
| 4-Pole (45 degrees)                                    | 3-2172095-2     |
| 5-Pole                                                 | T4145035051-001 |
| 8-Pole                                                 | 5-2172079-2     |

| TE Part Number                                           |                 |
|----------------------------------------------------------|-----------------|
| B coding - M12, Female, Rear Mount, PCB, R/A, Unshielded |                 |
| 2-Pole                                                   | T4145415021-001 |
| 3-Pole                                                   | T4145415031-001 |
| 4-Pole                                                   | T4145415041-001 |
| 5-Pole                                                   | T4145415051-001 |

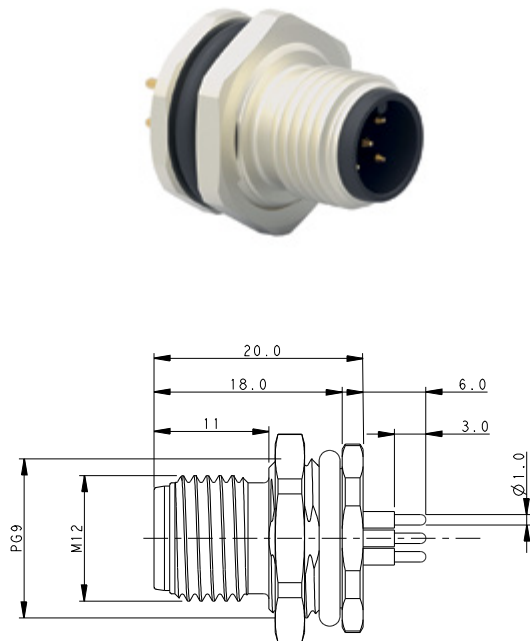
| B coding - M12, Female, Rear Mount, PCB, R/A, Shielded |                 |
|--------------------------------------------------------|-----------------|
| 2-Pole                                                 | T4145435021-001 |
| 3-Pole                                                 | T4145435031-001 |
| 4-Pole                                                 | T4145435041-001 |
| 5-Pole                                                 | T4145435051-001 |

| D coding - M12, Female, Rear Mount, PCB, R/A, Unshielded |                 |
|----------------------------------------------------------|-----------------|
| 2-Pole                                                   | T4145515021-001 |
| 3-Pole                                                   | T4145515031-001 |
| 4-Pole                                                   | T4145515041-001 |
| 5-Pole                                                   | T4145515051-001 |

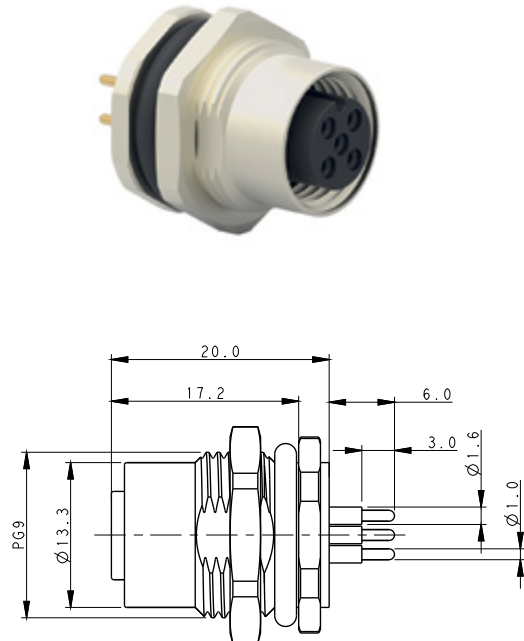
| D coding - M12, Female, Rear Mount, PCB, R/A, Shielded |                 |
|--------------------------------------------------------|-----------------|
| 2-Pole                                                 | T4145535021-001 |
| 3-Pole                                                 | T4145535031-001 |
| 4-Pole                                                 | T4145535041-001 |
| 5-Pole                                                 | T4145535051-001 |

# M12 Panel Mount Straight PCB – Rear Mounting

## Male Series



## Female Series



All dimensions in mm. Temperature range: -40 to +85 degree.

| TE Part Number                                      |                 |
|-----------------------------------------------------|-----------------|
| <b>A coding – M12 Male, Rear Mounting, Straight</b> |                 |
| 2-Pole                                              | T4140012021-000 |
| 3-Pole                                              | T4140012031-000 |
| 4-Pole                                              | T4140012041-000 |
| 5-Pole                                              | T4140012051-000 |

|                                                     |                 |
|-----------------------------------------------------|-----------------|
| <b>B coding – M12 Male, Rear Mounting, Straight</b> |                 |
| 2-Pole                                              | T4140412021-000 |
| 3-Pole                                              | T4140412031-000 |
| 4-Pole                                              | T4140412041-000 |
| 5-Pole                                              | T4140412051-000 |

|                                                     |                 |
|-----------------------------------------------------|-----------------|
| <b>D coding – M12 Male, Rear Mounting, Straight</b> |                 |
| 2-Pole                                              | T4140512021-000 |
| 3-Pole                                              | T4140512031-000 |
| 4-Pole                                              | T4140512041-000 |
| 5-Pole                                              | T4140512051-000 |

|                                                                    |             |
|--------------------------------------------------------------------|-------------|
| <b>A coding – M12, Male, Rear Mount, PCB, Straight, Unshielded</b> |             |
| 8-Pole                                                             | 5-2172070-2 |

|                                                                  |             |
|------------------------------------------------------------------|-------------|
| <b>A coding – M12, Male, Rear Mount, PCB, Straight, Shielded</b> |             |
| 8-Pole                                                           | 5-2172080-2 |

|                                                               |     |             |
|---------------------------------------------------------------|-----|-------------|
| <b>A coding – M12 Male, Rear Mounting M16 x 1.5, Straight</b> |     |             |
| 8-Pole                                                        | PG9 | 5-2271140-2 |
| 12-Pole                                                       | PG9 | 6-2271140-2 |

| TE Part Number                                        |                 |
|-------------------------------------------------------|-----------------|
| <b>A coding – M12 Female, Rear Mounting, Straight</b> |                 |
| 2-Pole                                                | T4141012021-000 |
| 3-Pole                                                | T4141012031-000 |
| 4-Pole                                                | T4141012041-000 |
| 5-Pole                                                | T4141012051-000 |

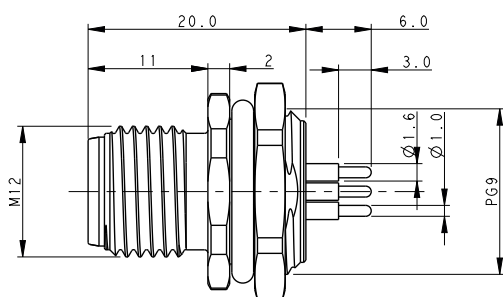
|                                                       |                 |
|-------------------------------------------------------|-----------------|
| <b>B coding – M12 Female, Rear Mounting, Straight</b> |                 |
| 2-Pole                                                | T4141412021-000 |
| 3-Pole                                                | T4141412031-000 |
| 4-Pole                                                | T4141412041-000 |
| 5-Pole                                                | T4141412051-000 |

|                                                       |                 |
|-------------------------------------------------------|-----------------|
| <b>D coding – M12 Female, Rear Mounting, Straight</b> |                 |
| 2-Pole                                                | T4141512021-000 |
| 3-Pole                                                | T4141512031-000 |
| 4-Pole                                                | T4141512041-000 |
| 5-Pole                                                | T4141512051-000 |

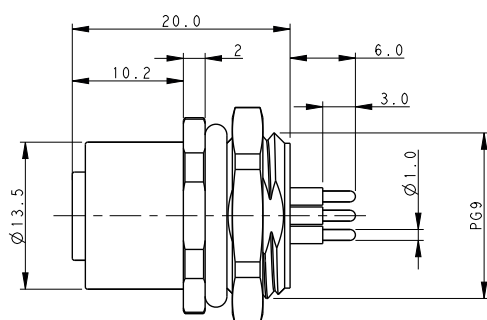
|                                                                 |     |             |
|-----------------------------------------------------------------|-----|-------------|
| <b>A coding – M12 Female, Rear Mounting M16 x 1.5, Straight</b> |     |             |
| 8-Pole                                                          | PG9 | 5-2271143-2 |
| 12-Pole                                                         | PG9 | 6-2271143-2 |

# M12 Panel Mount Straight PCB – Front Mounting

## Male Series



## Female Series



All dimensions in mm. Temperature range: -40 to +85 degree.

| TE Part Number                                       |                 |
|------------------------------------------------------|-----------------|
| <b>A coding – M12 Male, Front Mounting, Straight</b> |                 |
| 2-Pole                                               | T4142012021-000 |
| 3-Pole                                               | T4142012031-000 |
| 4-Pole                                               | T4142012041-000 |
| 5-Pole                                               | T4142012051-000 |

|                                                      |                 |
|------------------------------------------------------|-----------------|
| <b>B coding – M12 Male, Front Mounting, Straight</b> |                 |
| 2-Pole                                               | T4142412021-000 |
| 3-Pole                                               | T4142412031-000 |
| 4-Pole                                               | T4142412041-000 |
| 5-Pole                                               | T4142412051-000 |

|                                                      |                 |
|------------------------------------------------------|-----------------|
| <b>D coding – M12 Male, Front Mounting, Straight</b> |                 |
| 2-Pole                                               | T4142512021-000 |
| 3-Pole                                               | T4142512031-000 |
| 4-Pole                                               | T4142512041-000 |
| 5-Pole                                               | T4142512051-000 |

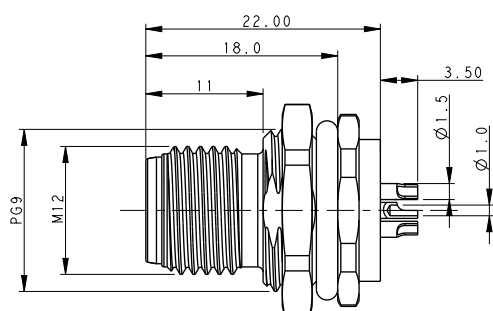
| TE Part Number                                         |                 |
|--------------------------------------------------------|-----------------|
| <b>A coding – M12 Female, Front Mounting, Straight</b> |                 |
| 2-Pole                                                 | T4143012021-000 |
| 3-Pole                                                 | T4143012031-000 |
| 4-Pole                                                 | T4143012041-000 |
| 5-Pole                                                 | T4143012051-000 |

|                                                        |                 |
|--------------------------------------------------------|-----------------|
| <b>B coding – M12 Female, Front Mounting, Straight</b> |                 |
| 2-Pole                                                 | T4143412021-000 |
| 3-Pole                                                 | T4143412031-000 |
| 4-Pole                                                 | T4143412041-000 |
| 5-Pole                                                 | T4143412051-000 |

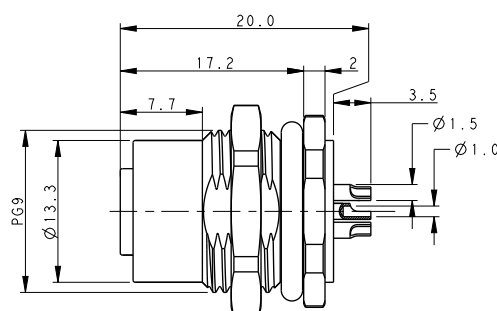
|                                                        |                 |
|--------------------------------------------------------|-----------------|
| <b>D coding – M12 Female, Front Mounting, Straight</b> |                 |
| 2-Pole                                                 | T4143512021-000 |
| 3-Pole                                                 | T4143512031-000 |
| 4-Pole                                                 | T4143512041-000 |
| 5-Pole                                                 | T4143512051-000 |

# M12 Panel Mount Solder Wire – Rear Mounting

## Male Series



## Female Series



All dimensions in mm. Temperature range: -40 to +85 degree.

| TE Part Number                                      |                 |
|-----------------------------------------------------|-----------------|
| <b>A coding – M12 Male, Rear Mounting, Straight</b> |                 |
| 2-Pole                                              | T4130012021-000 |
| 3-Pole                                              | T4130012031-000 |
| 4-Pole                                              | T4130012041-000 |
| 5-Pole                                              | T4130012051-000 |

|                                                     |                 |
|-----------------------------------------------------|-----------------|
| <b>B coding – M12 Male, Rear Mounting, Straight</b> |                 |
| 2-Pole                                              | T4130412021-000 |
| 3-Pole                                              | T4130412031-000 |
| 4-Pole                                              | T4130412041-000 |
| 5-Pole                                              | T4130412051-000 |

|                                                     |                 |
|-----------------------------------------------------|-----------------|
| <b>D coding – M12 Male, Rear Mounting, Straight</b> |                 |
| 2-Pole                                              | T4130512021-000 |
| 3-Pole                                              | T4130512031-000 |
| 4-Pole                                              | T4130512041-000 |
| 5-Pole                                              | T4130512051-000 |

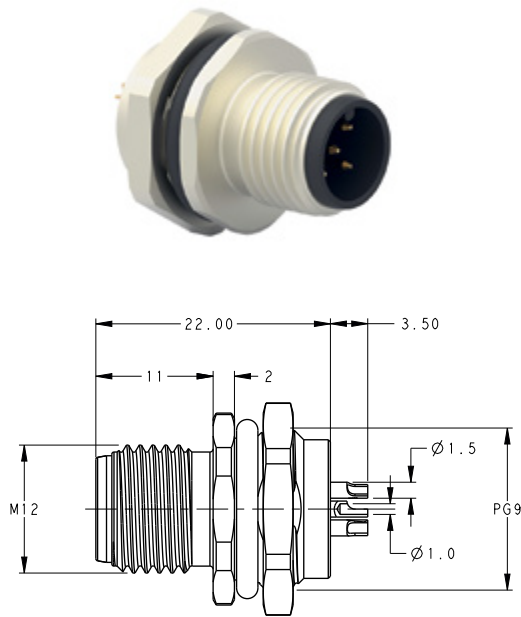
| TE Part Number                                        |                 |
|-------------------------------------------------------|-----------------|
| <b>A coding – M12 Female, Rear Mounting, Straight</b> |                 |
| 2-Pole                                                | T4131012021-000 |
| 3-Pole                                                | T4131012031-000 |
| 4-Pole                                                | T4131012041-000 |
| 5-Pole                                                | T4131012051-000 |

|                                                       |                 |
|-------------------------------------------------------|-----------------|
| <b>B coding – M12 Female, Rear Mounting, Straight</b> |                 |
| 2-Pole                                                | T4131412021-000 |
| 3-Pole                                                | T4131412031-000 |
| 4-Pole                                                | T4131412041-000 |
| 5-Pole                                                | T4131412051-000 |

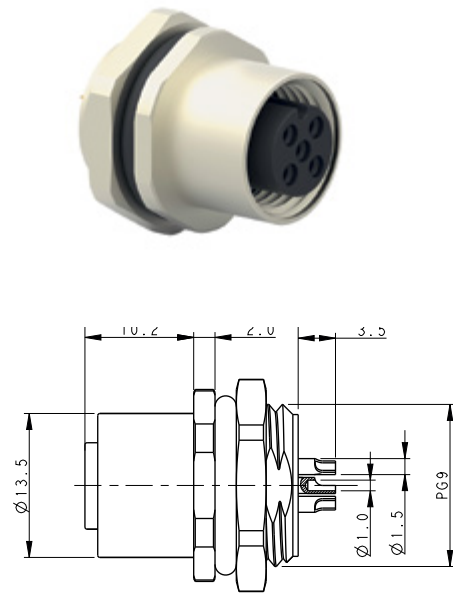
|                                                       |                 |
|-------------------------------------------------------|-----------------|
| <b>D coding – M12 Female, Rear Mounting, Straight</b> |                 |
| 2-Pole                                                | T4131512021-000 |
| 3-Pole                                                | T4131512031-000 |
| 4-Pole                                                | T4131512041-000 |
| 5-Pole                                                | T4131512051-000 |

# M12 Panel Mount Solder Wire – Front Mounting

## Male Series



## Female Series



All dimensions in mm. Temperature range: -40 to +85 degree.

| TE Part Number                                       |                 |
|------------------------------------------------------|-----------------|
| <b>A coding – M12 Male, Front Mounting, Straight</b> |                 |
| 2-Pole                                               | T4132012021-000 |
| 3-Pole                                               | T4132012031-000 |
| 4-Pole                                               | T4132012041-000 |
| 5-Pole                                               | T4132012051-000 |

|                                                      |                 |
|------------------------------------------------------|-----------------|
| <b>B coding – M12 Male, Front Mounting, Straight</b> |                 |
| 2-Pole                                               | T4132412021-000 |
| 3-Pole                                               | T4132412031-000 |
| 4-Pole                                               | T4132412041-000 |
| 5-Pole                                               | T4132412051-000 |

|                                                      |                 |
|------------------------------------------------------|-----------------|
| <b>D coding – M12 Male, Front Mounting, Straight</b> |                 |
| 2-Pole                                               | T4132512021-000 |
| 3-Pole                                               | T4132512031-000 |
| 4-Pole                                               | T4132512041-000 |
| 5-Pole                                               | T4132512051-000 |

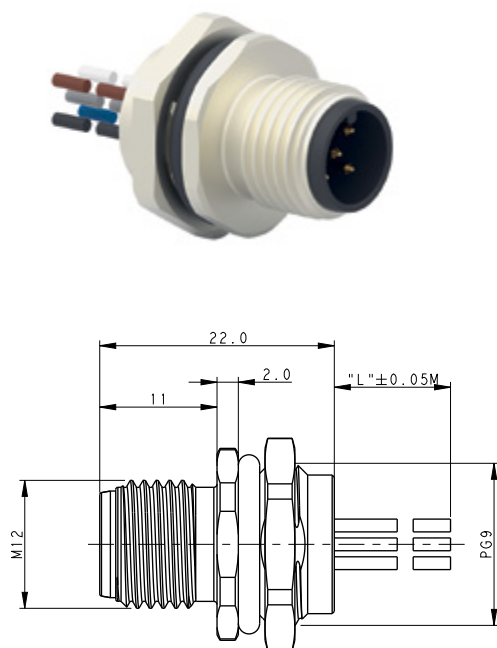
| TE Part Number                                         |                 |
|--------------------------------------------------------|-----------------|
| <b>A coding – M12 Female, Front Mounting, Straight</b> |                 |
| 2-Pole                                                 | T4133012021-000 |
| 3-Pole                                                 | T4133012031-000 |
| 4-Pole                                                 | T4133012041-000 |
| 5-Pole                                                 | T4133012051-000 |

|                                                        |                 |
|--------------------------------------------------------|-----------------|
| <b>B coding – M12 Female, Front Mounting, Straight</b> |                 |
| 2-Pole                                                 | T4133412021-000 |
| 3-Pole                                                 | T4133412031-000 |
| 4-Pole                                                 | T4133412041-000 |
| 5-Pole                                                 | T4133412051-000 |

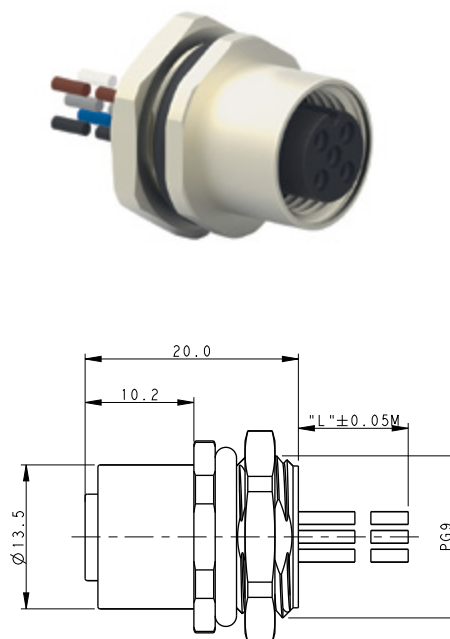
|                                                        |                 |
|--------------------------------------------------------|-----------------|
| <b>D coding – M12 Female, Front Mounting, Straight</b> |                 |
| 2-Pole                                                 | T4133512021-000 |
| 3-Pole                                                 | T4133512031-000 |
| 4-Pole                                                 | T4133512041-000 |
| 5-Pole                                                 | T4133512051-000 |

# M12 Panel Mount 200mm Wire – Front Mounting

## Male Series



## Female Series



All dimensions in mm. Temperature range: -40 to +85 degree.

| TE Part Number                                         |                 |
|--------------------------------------------------------|-----------------|
| <b>A coding – M12 Male, Front Mounting, 200mm wire</b> |                 |
| 2-Pole                                                 | T4171210002-001 |
| 3-Pole                                                 | T4171210003-001 |
| 4-Pole                                                 | T4171210004-001 |
| 5-Pole                                                 | T4171210005-001 |

|                                                        |                 |
|--------------------------------------------------------|-----------------|
| <b>B coding – M12 Male, Front Mounting, 200mm wire</b> |                 |
| 2-Pole                                                 | T4171210402-001 |
| 3-Pole                                                 | T4171210403-001 |
| 4-Pole                                                 | T4171210404-001 |
| 5-Pole                                                 | T4171210405-001 |

|                                                        |                 |
|--------------------------------------------------------|-----------------|
| <b>D coding – M12 Male, Front Mounting, 200mm wire</b> |                 |
| 2-Pole                                                 | T4171210502-001 |
| 3-Pole                                                 | T4171210503-001 |
| 4-Pole                                                 | T4171210504-001 |
| 5-Pole                                                 | T4171210505-001 |

|                                                                               |             |
|-------------------------------------------------------------------------------|-------------|
| <b>A coding<br/>M12 Male, Front Mounting M16 x 1.5 with wires 0.25 200 mm</b> |             |
| 8-Pole                                                                        | 5-2271134-2 |
| 12-Pole                                                                       | 6-2271134-2 |

| TE Part Number                                           |                 |
|----------------------------------------------------------|-----------------|
| <b>A coding – M12 Female, Front Mounting, 200mm wire</b> |                 |
| 2-Pole                                                   | T4171310002-001 |
| 3-Pole                                                   | T4171310003-001 |
| 4-Pole                                                   | T4171310004-001 |
| 5-Pole                                                   | T4171310005-001 |

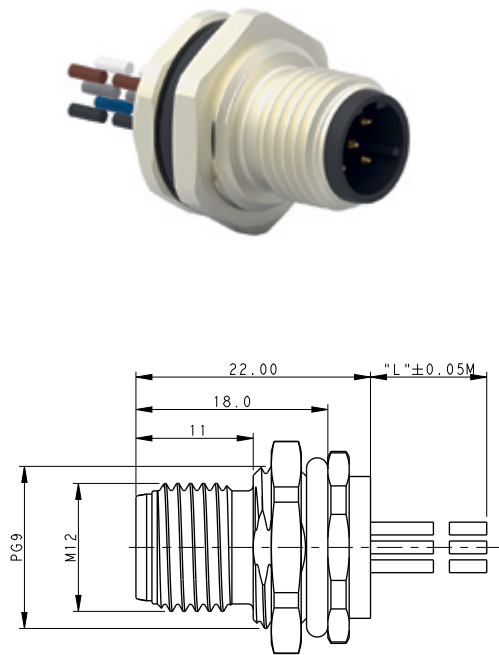
|                                                          |                 |
|----------------------------------------------------------|-----------------|
| <b>B coding – M12 Female, Front Mounting, 200mm wire</b> |                 |
| 2-Pole                                                   | T4171310402-001 |
| 3-Pole                                                   | T4171310403-001 |
| 4-Pole                                                   | T4171310404-001 |
| 5-Pole                                                   | T4171310405-001 |

|                                                          |                 |
|----------------------------------------------------------|-----------------|
| <b>D coding – M12 Female, Front Mounting, 200mm wire</b> |                 |
| 2-Pole                                                   | T4171310502-001 |
| 3-Pole                                                   | T4171310503-001 |
| 4-Pole                                                   | T4171310504-001 |
| 5-Pole                                                   | T4171310505-001 |

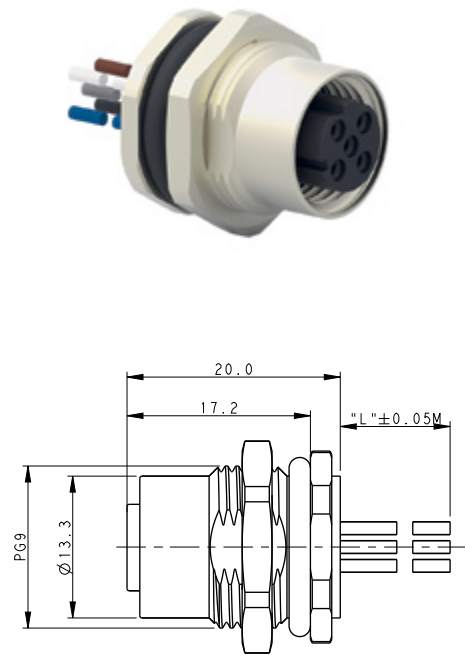
|                                                                                 |             |
|---------------------------------------------------------------------------------|-------------|
| <b>A coding<br/>M12 Female, Front Mounting M16 x 1.5 with wires 0.25 200 mm</b> |             |
| 8-Pole                                                                          | 5-2271137-2 |
| 12-Pole                                                                         | 6-2271137-2 |

# M12 Panel Mount 200mm Wire – Rear Mounting

## Male Series



## Female Series



All dimensions in mm. Temperature range: -40 to +85 degree.

| TE Part Number                                        |                 |
|-------------------------------------------------------|-----------------|
| <b>A coding – M12 Male, Rear Mounting, 200mm wire</b> |                 |
| 2-Pole                                                | T4171010002-001 |
| 3-Pole                                                | T4171010003-001 |
| 4-Pole                                                | T4171010004-001 |
| 5-Pole                                                | T4171010005-001 |

|                                                       |                 |
|-------------------------------------------------------|-----------------|
| <b>B coding – M12 Male, Rear Mounting, 200mm wire</b> |                 |
| 2-Pole                                                | T4171010402-001 |
| 3-Pole                                                | T4171010403-001 |
| 4-Pole                                                | T4171010404-001 |
| 5-Pole                                                | T4171010405-001 |

|                                                       |                 |
|-------------------------------------------------------|-----------------|
| <b>D coding – M12 Male, Rear Mounting, 200mm wire</b> |                 |
| 2-Pole                                                | T4171010502-001 |
| 3-Pole                                                | T4171010503-001 |
| 4-Pole                                                | T4171010504-001 |
| 5-Pole                                                | T4171010505-001 |

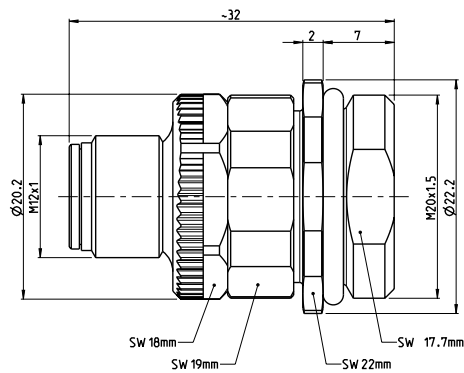
| TE Part Number                                          |                 |
|---------------------------------------------------------|-----------------|
| <b>A coding – M12 Female, Rear Mounting, 200mm wire</b> |                 |
| 2-Pole                                                  | T4171110002-001 |
| 3-Pole                                                  | T4171110003-001 |
| 4-Pole                                                  | T4171110004-001 |
| 5-Pole                                                  | T4171110005-001 |

|                                                         |                 |
|---------------------------------------------------------|-----------------|
| <b>B coding – M12 Female, Rear Mounting, 200mm wire</b> |                 |
| 2-Pole                                                  | T4171110402-001 |
| 3-Pole                                                  | T4171110403-001 |
| 4-Pole                                                  | T4171110404-001 |
| 5-Pole                                                  | T4171110405-001 |

|                                                         |                 |
|---------------------------------------------------------|-----------------|
| <b>D coding – M12 Female, Rear Mounting, 200mm wire</b> |                 |
| 2-Pole                                                  | T4171110502-001 |
| 3-Pole                                                  | T4171110503-001 |
| 4-Pole                                                  | T4171110504-001 |
| 5-Pole                                                  | T4171110505-001 |

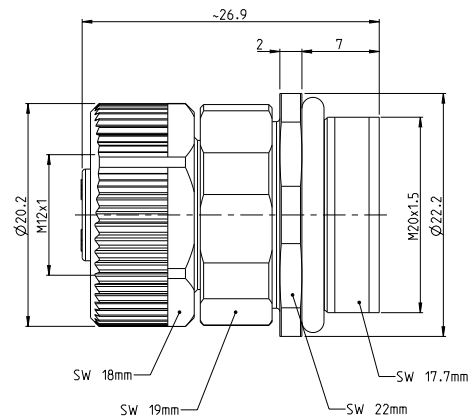
# M12 S, T coded

## Male Series



All dimensions in mm. Temperature range: -40 to +85 degree.

## Female Series



| TE Part Number                                           |         |           |
|----------------------------------------------------------|---------|-----------|
| S coding - M12 Male Screw Connection, Straight, Shielded |         |           |
| 3-Pole                                                   | plus PE | 2120951-1 |

| T coding - M12 Male Screw Connection, Straight, Shielded |  |             |
|----------------------------------------------------------|--|-------------|
| 4-Pole                                                   |  | 3-2172096-2 |

| T coding - M12 Male, Front Mounting M20 x 1.5 |  |           |
|-----------------------------------------------|--|-----------|
| 4-Pole                                        |  | 2120947-1 |

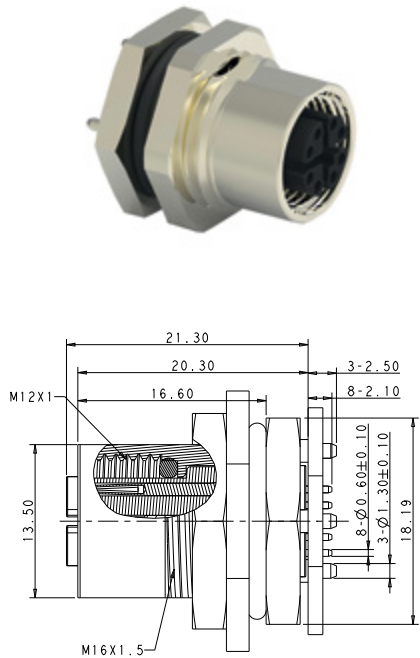
| TE Part Number                                             |         |           |
|------------------------------------------------------------|---------|-----------|
| S coding - M12 Female Screw Connection, Straight, Shielded |         |           |
| 3-Pole                                                     | plus PE | 2120950-1 |

| T coding - M12 Female Screw Connection, Straight, Shielded |  |             |
|------------------------------------------------------------|--|-------------|
| 4-Pole                                                     |  | 3-2172097-2 |

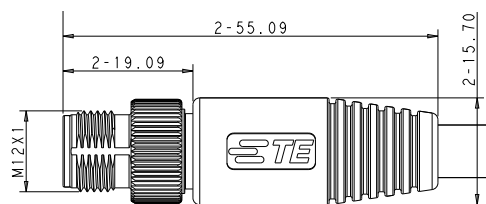
| T coding - M12 Female, Front Mounting M20 x 1.5 |  |           |
|-------------------------------------------------|--|-----------|
| 4-Pole                                          |  | 2120946-1 |

# M12 X-Coded

## M12 X-Coded PCB Connector



## M12 Pin Connector Cable Assembly



All dimensions in mm. Temperature range: -40 to +85 degree.

| Description                             | TE Part Number |
|-----------------------------------------|----------------|
| <b>M12 X-Coded PCB Connector</b>        |                |
| Female Panel Mount Solder PCB Connector | 2232331-1      |
| Female Panel Mount Solder Wire          | 2271195-1      |

|                                                          |           |
|----------------------------------------------------------|-----------|
| <b>M12 X-Coded Field Installable Connector</b>           |           |
| Male Connector installable (IDC): 5.5-9mm cable diameter | 2120952-1 |

| Length                                  | TE Part Number |
|-----------------------------------------|----------------|
| <b>M12 Pin Connector Cable Assembly</b> |                |
| 1m                                      | 2241021-1      |
| 2m                                      | 2241021-2      |
| 3m                                      | 2241021-3      |
| 4m                                      | 2241021-4      |
| 5m                                      | 2241021-5      |
| 10m                                     | 2241021-6      |

# Accessories

## Dust Caps



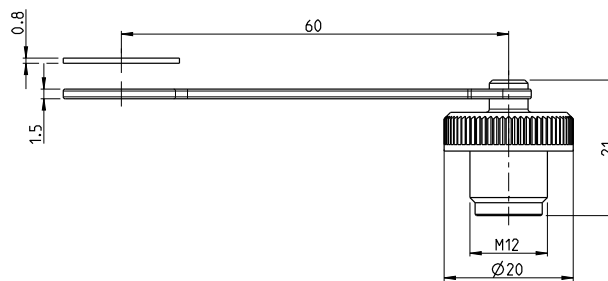
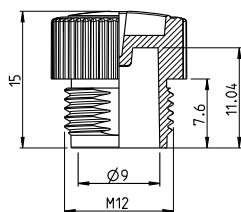
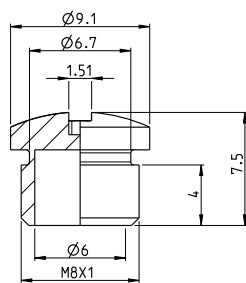
2823563-1



2823064-1



2823065-1



All dimensions in mm. Temperature range: -40 to +85 degree.

| TE Part Number                              |           |
|---------------------------------------------|-----------|
| <b>Dust Caps</b>                            |           |
| M8, Dust Cap, Female, IP67, without sleeve  | 2823563-1 |
| M12, Dust Cap, Female, IP67, without sleeve | 2823064-1 |
| M12, Dust Cap, Female, IP67, with sleeve    | 2823065-1 |

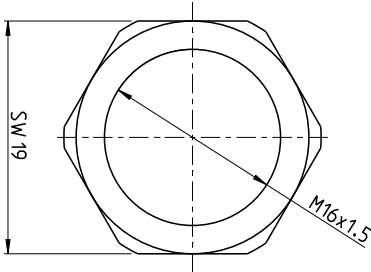
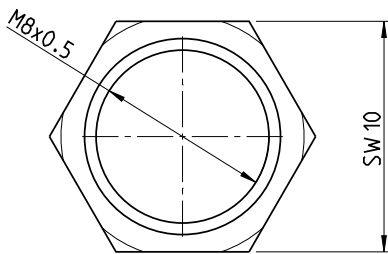
Nuts for Panel Mount connectors



2823423-1



2823066-1



All dimensions in mm.

| TE Part Number                         |           |
|----------------------------------------|-----------|
| <b>Nuts for Panel Mount connectors</b> |           |
| Nut for M8 Panel Mount connector       | 2823423-1 |
| Nut for M12 Panel Mount connector      | 2823066-1 |

# M8/M12 CABLE ASSEMBLIES

TE's M8/M12 cable assemblies are available as single-ended or double-ended and as straight or angled versions. Various cable types, colors and lengths offer a flexible design that can be used in combination with TE's male/female connectors and I/O Modules.

## Standard (IEC):

IEC 61076-2-104 for all M8 series and  
IEC 61076-2-101 for all M12 series

## Operating temperature:

Connectors: -25°C to +85°C

Cables:

- PVC: -5°C to + 80°C Flexible  
-30°C to + 80°C Fixed
- PUR: -25°C to + 80°C (90°C max. 10.000h) Flexible  
-40°C to + 80°C (90°C max. 10.000h) Fixed

## Connector Contacts:

Current rating per contact is 4 A

## Shielding: Yes/No

Refer to drawing

## Suitable Cable Diameter:

Refer to drawing

## IP Rating:

IP65/67

## Application Areas:

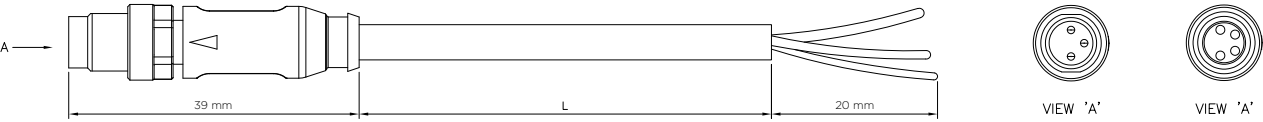
- PUR: For use in demanding environments with required resistance to oils, chemicals and abrasion
- PUR/PVC: For use assembly and production lines requiring higher cut, abrasion and chemical resistance
- PVC: For use in less demanding environments with required oil, chemical and lubricant resistance



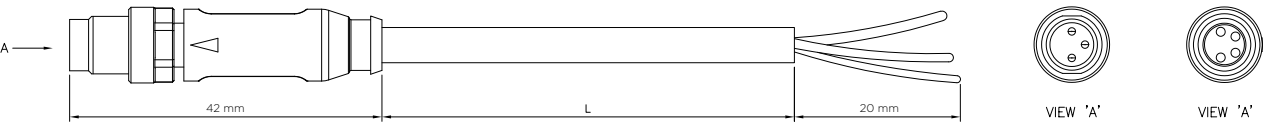
# M8 Cable Assemblies

## M8 Series Male

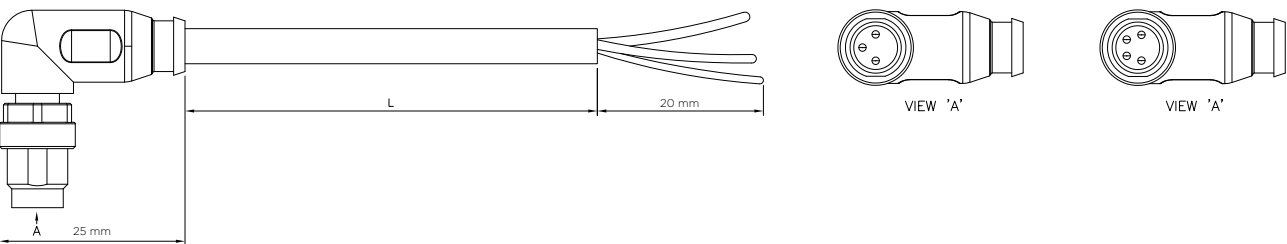
| TE Part Number | Description                    | Available In                                                    |
|----------------|--------------------------------|-----------------------------------------------------------------|
| 2273000        | M8 x 1.0 Straight plug Pigtail | 3 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m |
| 2273002        | M8 x 1.0 Straight plug Pigtail | 4 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m |



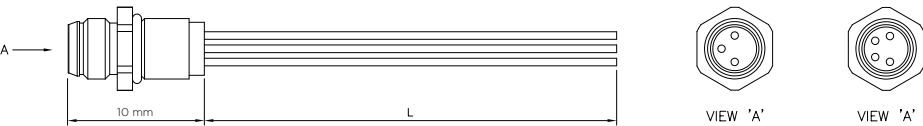
| TE Part Number | Description                             | Available In                                                    |
|----------------|-----------------------------------------|-----------------------------------------------------------------|
| 2273004        | M8 x 1.0 Straight plug Pigtail Shielded | 3 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m |
| 2273006        | M8 x 1.0 Straight plug Pigtail Shielded | 4 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m |



| TE Part Number | Description                  | Available In                                                    |
|----------------|------------------------------|-----------------------------------------------------------------|
| 2273008        | M8 x 1.0 Angled plug Pigtail | 3 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m |
| 2273010        | M8 x 1.0 Angled plug Pigtail | 4 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m |



| TE Part Number | Description              | Available In                    |
|----------------|--------------------------|---------------------------------|
| 2273014-1      | M8 Male Panel Mount Rear | 3 positions PUR, Lengths: 0.2 m |
| 2273230-1      | M8 Male Panel Mount Rear | 4 positions PUR, Length: 0.2 m  |

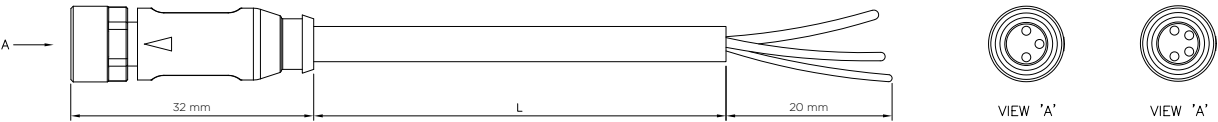


| xxxxxxx     | TE base PN |       |
|-------------|------------|-------|
| xxxxxxx-1   | PUR        | 1.5m  |
| xxxxxxx-2   | PUR        | 3.0m  |
| xxxxxxx-3   | PUR        | 5.0m  |
| xxxxxxx-4   | PUR        | 10.0m |
| 1-xxxxxxx-1 | PVC        | 1.5m  |
| 1-xxxxxxx-2 | PVC        | 3.0m  |
| 1-xxxxxxx-3 | PVC        | 5.0m  |
| 1-xxxxxxx-4 | PVC        | 10.0m |

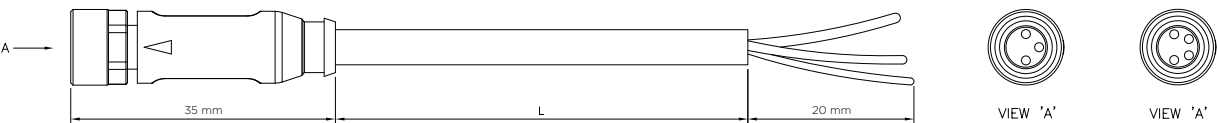
# M8 Cable Assemblies

## M8 Series Female

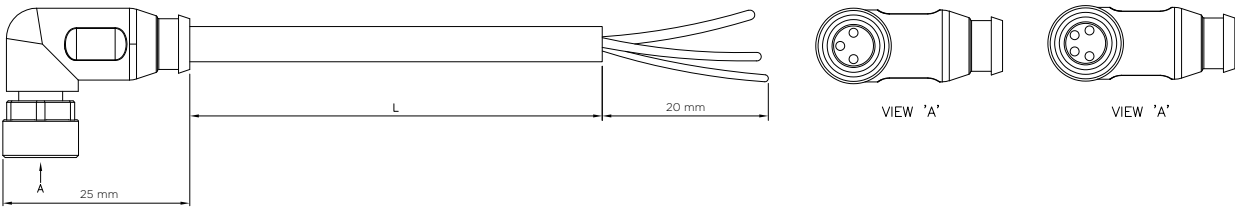
| TE Part Number | Description                      | Available In                                                |
|----------------|----------------------------------|-------------------------------------------------------------|
| 2273001        | M8 x 1.0 Straight socket Pigtail | 3 positions PUR or PVC, Lengths: 1.5m / 3.0m / 5.0m / 10.0m |
| 2273003        | M8 x 1.0 Straight socket Pigtail | 4 positions PUR or PVC, Lengths: 1.5m/ 3.0m/ 5.0m/10.0m     |



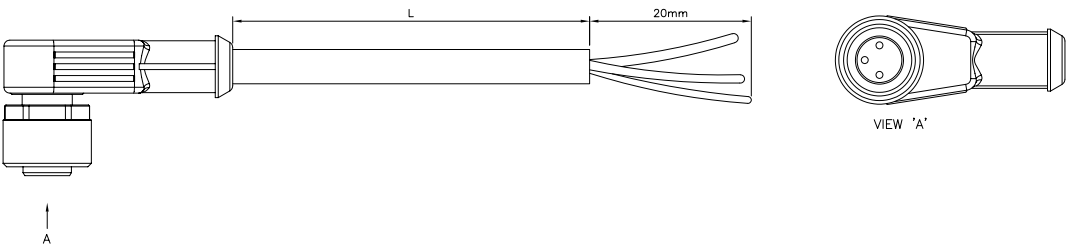
| TE Part Number | Description                               | Available In                                                |
|----------------|-------------------------------------------|-------------------------------------------------------------|
| 2273005        | M8 x 1.0 Straight socket Pigtail Shielded | 3 positions PUR or PVC, Lengths: 1.5m / 3.0m / 5.0m / 10.0m |
| 2273007        | M8 x 1.0 Straight socket Pigtail Shielded | 4 positions PUR or PVC, Lengths: 1.5m/ 3.0m/ 5.0m/10.0m4    |



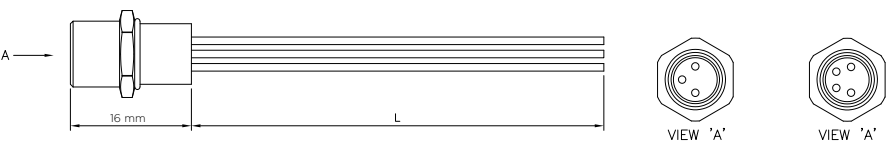
| TE Part Number | Description                    | Available In                                                |
|----------------|--------------------------------|-------------------------------------------------------------|
| 2273009        | M8 x 1.0 Angled socket Pigtail | 3 positions PUR or PVC, Lengths: 1.5m / 3.0m / 5.0m / 10.0m |
| 2273011        | M8 x 1.0 Angled socket Pigtail | 4 positions PUR or PVC, Lengths: 1.5m/ 3.0m/ 5.0m/10.0m     |



| TE Part Number | Description                        | Available In                                                |
|----------------|------------------------------------|-------------------------------------------------------------|
| 2273012        | M8 x 1.0 Angled socket Pigtail LED | 3 positions PUR or PVC, Lengths: 1.5m / 3.0m / 5.0m / 10.0m |



| TE Part Number | Description                | Available In                  |
|----------------|----------------------------|-------------------------------|
| 2273013        | M8 Female Panel Mount Rear | 3 positions PUR, Length: 0.2m |
| 2273015        | M8 Female Panel Mount Rear | 4 positions PUR, Length: 0.2m |

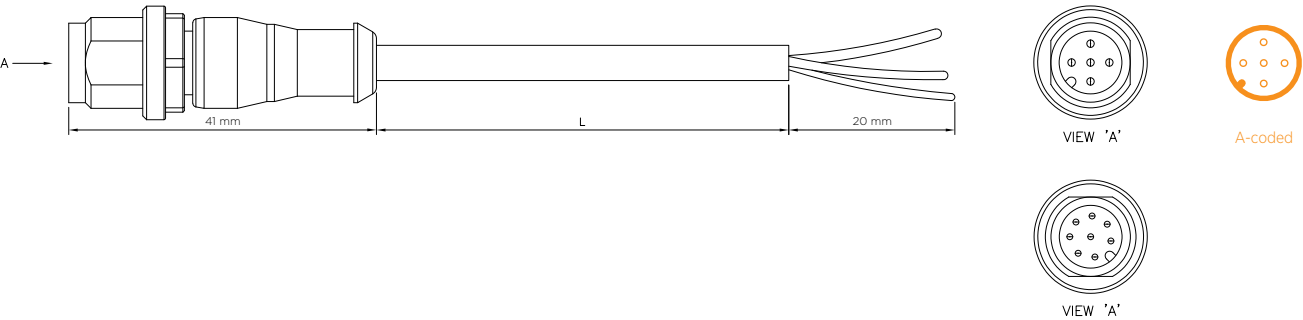


| xxxxxxx     | TE base PN |       |
|-------------|------------|-------|
| xxxxxxx-1   | PUR        | 1.5m  |
| xxxxxxx-2   | PUR        | 3.0m  |
| xxxxxxx-3   | PUR        | 5.0m  |
| xxxxxxx-4   | PUR        | 10.0m |
| 1-xxxxxxx-1 | PVC        | 1.5m  |
| 1-xxxxxxx-2 | PVC        | 3.0m  |
| 1-xxxxxxx-3 | PVC        | 5.0m  |
| 1-xxxxxxx-4 | PVC        | 10.0m |

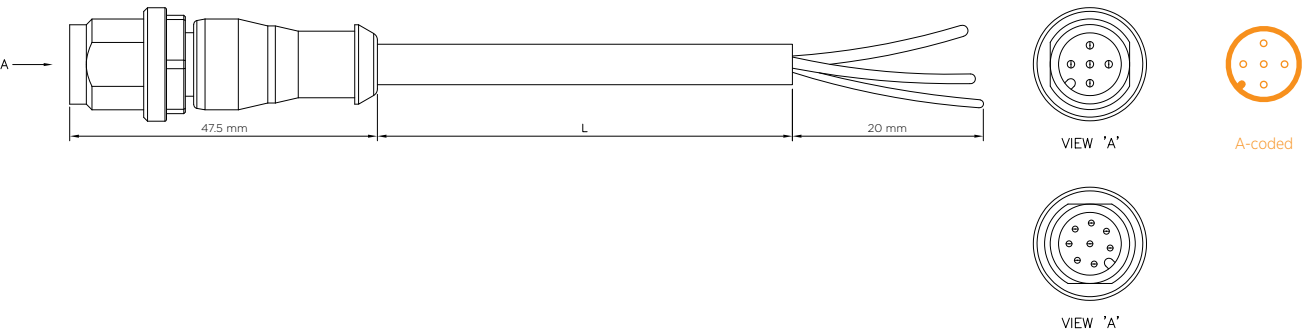
# M12 Cable Assemblies

## M12 Series Male Straight

| TE Part Number | Description                                | Available In                                                    |
|----------------|--------------------------------------------|-----------------------------------------------------------------|
| 2273022        | M12 x 1.0 Straight plug Pigtail Unshielded | 3 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m |
| 2273028        | M12 x 1.0 Straight plug Pigtail Unshielded | 4 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m |
| 2273034        | M12 x 1.0 Straight plug Pigtail Unshielded | 5 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m |
| 2273040        | M12 x 1.0 Straight plug Pigtail Unshielded | 8 positions PUR, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m        |



| TE Part Number | Description                              | Available In                                                    |
|----------------|------------------------------------------|-----------------------------------------------------------------|
| 2273042        | M12 x 1.0 Straight plug Pigtail Shielded | 3 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m |
| 2273044        | M12 x 1.0 Straight plug Pigtail Shielded | 4 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m |
| 2273046        | M12 x 1.0 Straight plug Pigtail Shielded | 5 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m |
| 2273048        | M12 x 1.0 Straight plug Pigtail Shielded | 8 positions PUR, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m        |

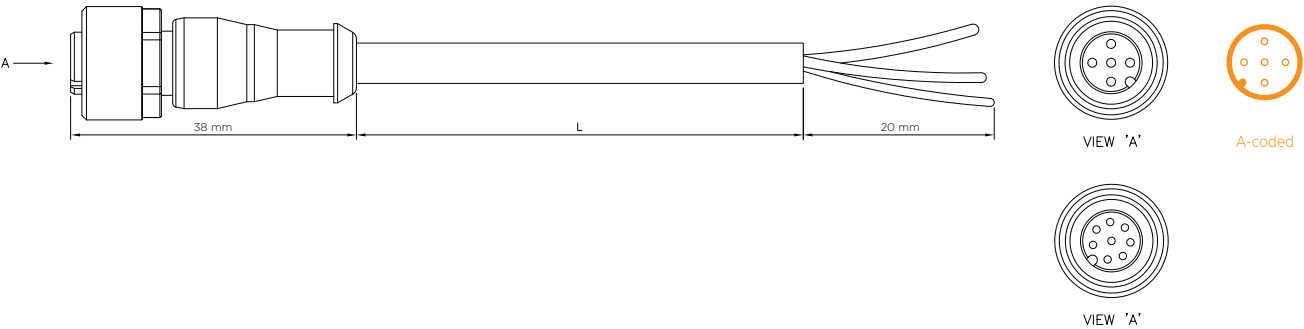


| xxxxxxx     | TE base PN |       |
|-------------|------------|-------|
| xxxxxxx-1   | PUR        | 1.5m  |
| xxxxxxx-2   | PUR        | 3.0m  |
| xxxxxxx-3   | PUR        | 5.0m  |
| xxxxxxx-4   | PUR        | 10.0m |
| 1-xxxxxxx-1 | PVC        | 1.5m  |
| 1-xxxxxxx-2 | PVC        | 3.0m  |
| 1-xxxxxxx-3 | PVC        | 5.0m  |
| 1-xxxxxxx-4 | PVC        | 10.0m |

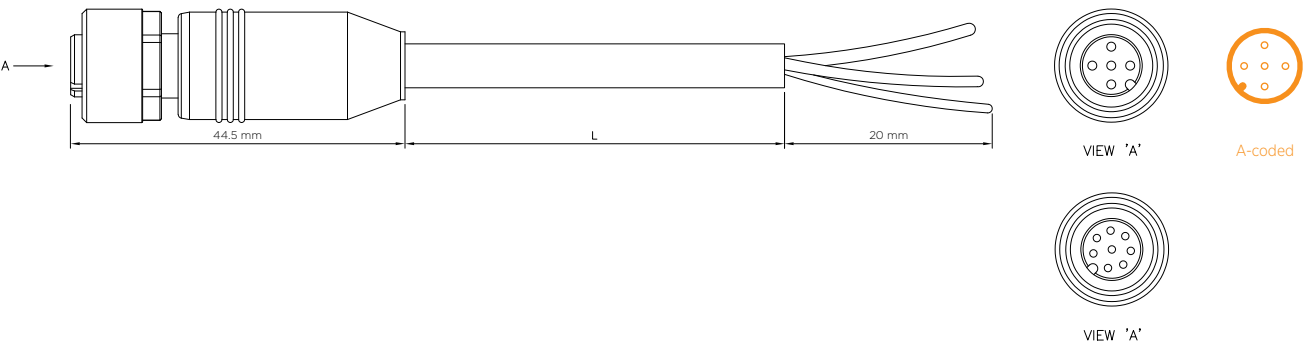
# M12 Cable Assemblies

## M12 Series Female Straight

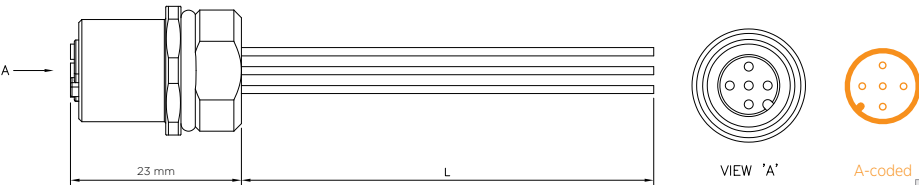
| TE Part Number | Description                                  | Available In                                                |
|----------------|----------------------------------------------|-------------------------------------------------------------|
| 2273023        | M12 x 1.0 Straight socket Pigtail Unshielded | 3 positions PUR or PVC, Lengths: 1.5m / 3.0m / 5.0m / 10.0m |
| 2273029        | M12 x 1.0 Straight socket Pigtail Unshielded | 4 positions PUR or PVC, Lengths: 1.5m / 3.0m / 5.0m / 10.0m |
| 2273035        | M12 x 1.0 Straight socket Pigtail Unshielded | 5 positions PUR or PVC, Lengths: 1.5m / 3.0m / 5.0m / 10.0m |
| 2273041        | M12 x 1.0 Straight socket Pigtail Unshielded | 8 positions PUR, Lengths: 1.5m / 3.0m / 5.0m / 10.0m        |



| TE Part Number | Description                                | Available In                                                |
|----------------|--------------------------------------------|-------------------------------------------------------------|
| 2273043        | M12 x 1.0 Straight socket Pigtail Shielded | 3 positions PUR or PVC, Lengths: 1.5m / 3.0m / 5.0m / 10.0m |
| 2273045        | M12 x 1.0 Straight socket Pigtail Shielded | 4 positions PUR or PVC, Lengths: 1.5m / 3.0m / 5.0m / 10.0m |
| 2273047        | M12 x 1.0 Straight socket Pigtail Shielded | 5 positions PUR or PVC, Lengths: 1.5m / 3.0m / 5.0m / 10.0m |
| 2273049        | M12 x 1.0 Straight socket Pigtail Shielded | 8 positions PUR, Lengths: 1.5m / 3.0m / 5.0m / 10.0m        |



| TE Part Number | Description                 | Available In                  |
|----------------|-----------------------------|-------------------------------|
| 2273054        | M12 Female Panel Mount Rear | 4 positions PUR, Length: 0.2m |
| 2273055        | M12 Female Panel Mount Rear | 5 positions PUR, Length: 0.2m |

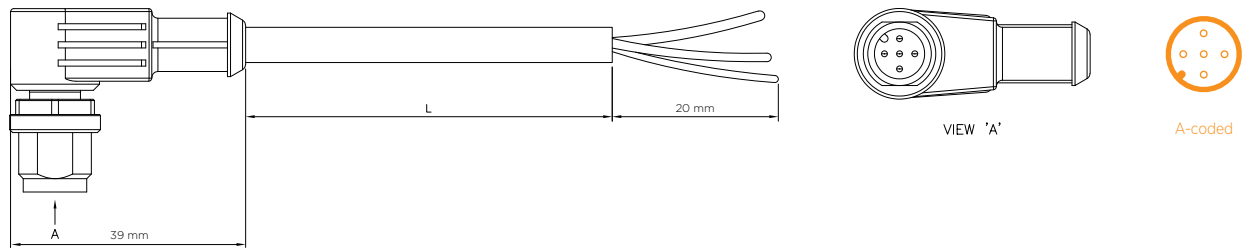


| xxxxxxx     | TE base PN |       |
|-------------|------------|-------|
| xxxxxxx-1   | PUR        | 1.5m  |
| xxxxxxx-2   | PUR        | 3.0m  |
| xxxxxxx-3   | PUR        | 5.0m  |
| xxxxxxx-4   | PUR        | 10.0m |
| 1-xxxxxxx-1 | PVC        | 1.5m  |
| 1-xxxxxxx-2 | PVC        | 3.0m  |
| 1-xxxxxxx-3 | PVC        | 5.0m  |
| 1-xxxxxxx-4 | PVC        | 10.0m |

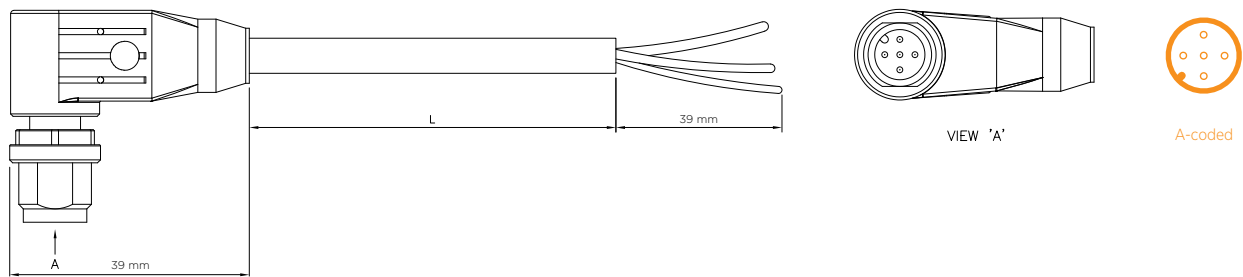
# M12 Cable Assemblies

## M12 Series Male Angled

| TE Part Number | Description                              | Available In                                                    |
|----------------|------------------------------------------|-----------------------------------------------------------------|
| 2273076        | M12 x 1.0 Angled plug Pigtail Unshielded | 3 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m |
| 2273082        | M12 x 1.0 Angled plug Pigtail Unshielded | 4 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m |
| 2273088        | M12 x 1.0 Angled plug Pigtail Unshielded | 5 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m |
| 2273094        | M12 x 1.0 Angled plug Pigtail Unshielded | 8 positions PUR, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m        |



| TE Part Number | Description                            | Available In                                                    |
|----------------|----------------------------------------|-----------------------------------------------------------------|
| 2273096        | M12 x 1.0 Angled plug Pigtail Shielded | 3 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m |
| 2273098        | M12 x 1.0 Angled plug Pigtail Shielded | 4 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m |
| 2273100        | M12 x 1.0 Angled plug Pigtail Shielded | 5 positions PUR or PVC, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m |
| 2273102        | M12 x 1.0 Angled plug Pigtail Shielded | 8 positions PUR, Lengths: 1.5 m / 3.0 m / 5.0 m / 10.0 m        |

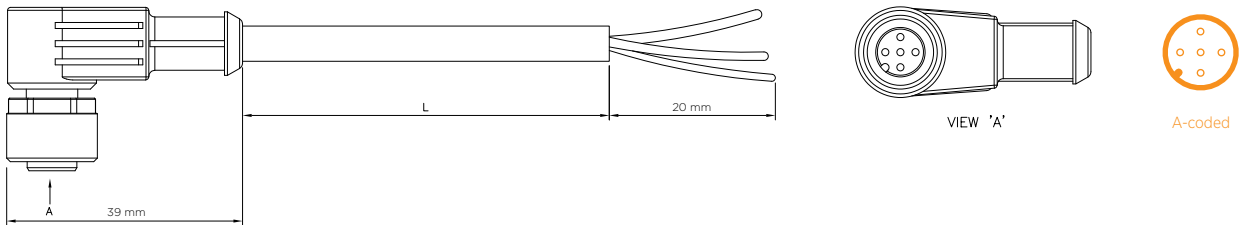


| xxxxxxx     | TE base PN |       |
|-------------|------------|-------|
| xxxxxxx-1   | PUR        | 1.5m  |
| xxxxxxx-2   | PUR        | 3.0m  |
| xxxxxxx-3   | PUR        | 5.0m  |
| xxxxxxx-4   | PUR        | 10.0m |
| 1-xxxxxxx-1 | PVC        | 1.5m  |
| 1-xxxxxxx-2 | PVC        | 3.0m  |
| 1-xxxxxxx-3 | PVC        | 5.0m  |
| 1-xxxxxxx-4 | PVC        | 10.0m |

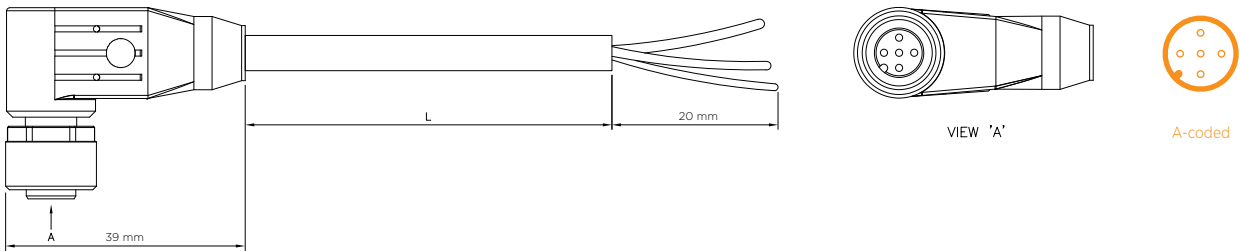
# M12 Cable Assemblies

## M12 Series Female Angled

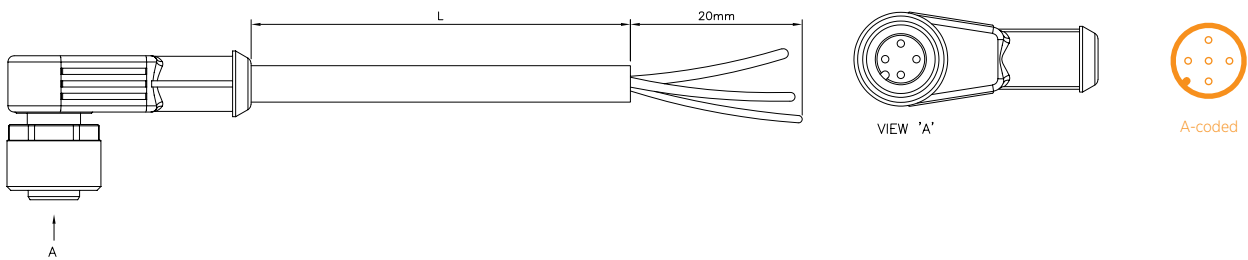
| TE Part Number | Description                                | Available In                                                |
|----------------|--------------------------------------------|-------------------------------------------------------------|
| 2273077        | M12 x 1.0 Angled socket Pigtail Unshielded | 3 positions PUR or PVC, Lengths: 1.5m / 3.0m / 5.0m / 10.0m |
| 2273083        | M12 x 1.0 Angled socket Pigtail Unshielded | 4 positions PUR or PVC, Lengths: 1.5m / 3.0m / 5.0m / 10.0m |
| 2273089        | M12 x 1.0 Angled socket Pigtail Unshielded | 5 positions PUR or PVC, Lengths: 1.5m / 3.0m / 5.0m / 10.0m |
| 2273095        | M12 x 1.0 Angled socket Pigtail Unshielded | 8 positions PUR, Lengths: 1.5m / 3.0m / 5.0m / 10.0m        |



| TE Part Number | Description                              | Available In                                                |
|----------------|------------------------------------------|-------------------------------------------------------------|
| 2273097        | M12 x 1.0 Angled socket Pigtail Shielded | 3 positions PUR or PVC, Lengths: 1.5m / 3.0m / 5.0m / 10.0m |
| 2273099        | M12 x 1.0 Angled socket Pigtail Shielded | 4 positions PUR or PVC, Lengths: 1.5m / 3.0m / 5.0m / 10.0m |
| 2273101        | M12 x 1.0 Angled socket Pigtail Shielded | 5 positions PUR or PVC, Lengths: 1.5m / 3.0m / 5.0m / 10.0m |
| 2273103        | M12 x 1.0 Angled socket Pigtail Shielded | 8 positions PUR, Lengths: 1.5m / 3.0m / 5.0m / 10.0m        |



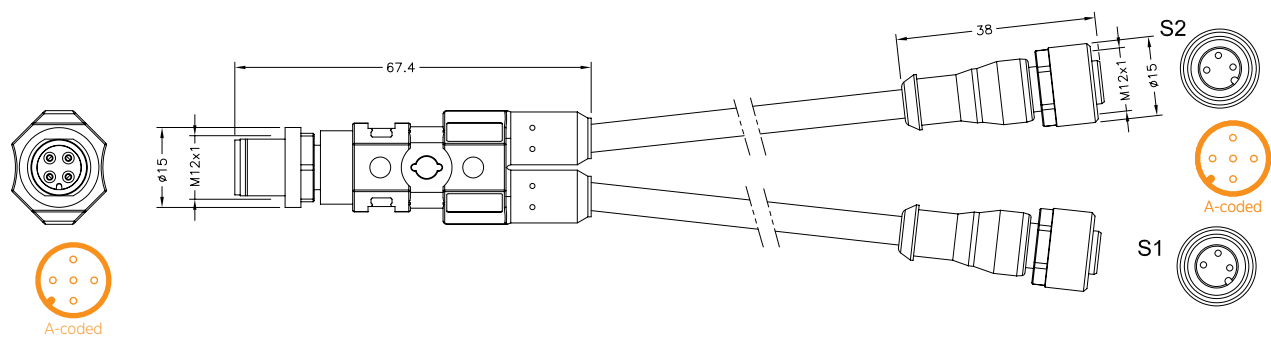
| TE Part Number | Description                                  | Available In                                                       |
|----------------|----------------------------------------------|--------------------------------------------------------------------|
| 2273104        | M12 x 1.0 Angled socket Pigtail Shielded LED | 4 positions PUR, 2 LED, Lengths: 1.5m / 3.0m / 5.0m / 10.0m        |
| 2273105        | M12 x 1.0 Angled socket Pigtail Shielded LED | 4 positions PUR or PVC, 3 LED, Lengths: 1.5m / 3.0m / 5.0m / 10.0m |



| xxxxxxx     | TE base PN |       |
|-------------|------------|-------|
| xxxxxxx-1   | PUR        | 1.5m  |
| xxxxxxx-2   | PUR        | 3.0m  |
| xxxxxxx-3   | PUR        | 5.0m  |
| xxxxxxx-4   | PUR        | 10.0m |
| 1-xxxxxxx-1 | PVC        | 1.5m  |
| 1-xxxxxxx-2 | PVC        | 3.0m  |
| 1-xxxxxxx-3 | PVC        | 5.0m  |
| 1-xxxxxxx-4 | PVC        | 10.0m |

M12 Series Male to Female Y-cables

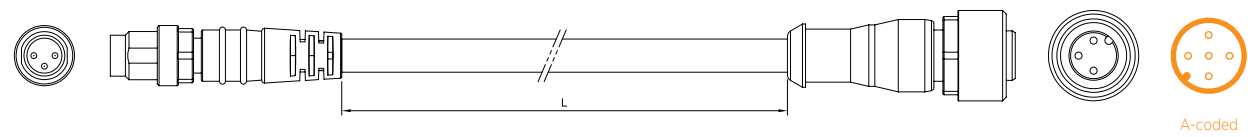
| TE Part Number | Description                         | Available In                                                           |
|----------------|-------------------------------------|------------------------------------------------------------------------|
| 2273107        | M12 Y conn Male to 2 x M12 Female A | 4 positions PUR or PVC, Lengths: 0.3 m / 0.6 m / 1.0 m / 1.5 m / 2.0 m |



M8 to M12 Cable Assemblies

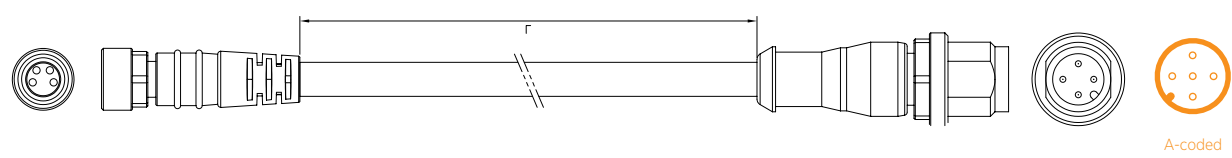
M8 Male to M12 Female Series

| TE Part Number | Description                                        | Available In                                                           |
|----------------|----------------------------------------------------|------------------------------------------------------------------------|
| 2273108        | M8 Straight plug to M12 Straight socket Unshielded | 3 positions PUR or PVC, Lengths: 0.3 m / 0.6 m / 1.0 m / 1.5 m / 2.0 m |
| 2273109        | M8 Strght plug to M12 Straight socket Unshielded   | 4 positions PUR or PVC, Lengths: 0.3 m / 0.6 m / 1.0 m / 1.5 m / 2.0 m |



M8 Female to M12 Male Series

| TE Part Number | Description                                        | Available In                                                           |
|----------------|----------------------------------------------------|------------------------------------------------------------------------|
| 2273110        | M8 Straight socket to M12 Straight plug Unshielded | 3 positions PUR or PVC, Lengths: 0.3 m / 0.6 m / 1.0 m / 1.5 m / 2.0 m |
| 2273111        | M8 Straight socket to M12 Straight plug Unshielded | 4 positions PUR or PVC, Lengths: 0.3 m / 0.6 m / 1.0 m / 1.5 m / 2.0 m |



| xxxxxxx     | TE base PN |      |
|-------------|------------|------|
| xxxxxxx-1   | PUR        | 0.3m |
| xxxxxxx-2   | PUR        | 0.6m |
| xxxxxxx-3   | PUR        | 1.0m |
| xxxxxxx-4   | PUR        | 1.5m |
| xxxxxxx-5   | PUR        | 2.0m |
| 1-xxxxxxx-1 | PVC        | 0.3m |
| 1-xxxxxxx-2 | PVC        | 0.6m |
| 1-xxxxxxx-3 | PVC        | 1.0m |
| 1-xxxxxxx-4 | PVC        | 1.5m |
| 1-xxxxxxx-5 | PVC        | 2.0m |

| xxxxxxx     | TE base PN     |      |
|-------------|----------------|------|
| 2-xxxxxxx-1 | PUR/PVC        | 0.3m |
| 2-xxxxxxx-2 | PUR/PVC        | 0.6m |
| 2-xxxxxxx-3 | PUR/PVC        | 1.0m |
| 2-xxxxxxx-4 | PUR/PVC        | 1.5m |
| 2-xxxxxxx-5 | PUR/PVC        | 2.0m |
| 3-xxxxxxx-1 | PUR Spark res. | 0.3m |
| 3-xxxxxxx-2 | PUR Spark res. | 0.6m |
| 3-xxxxxxx-3 | PUR Spark res. | 1.0m |
| 3-xxxxxxx-4 | PUR Spark res. | 1.5m |
| 3-xxxxxxx-5 | PUR Spark res. | 2.0m |

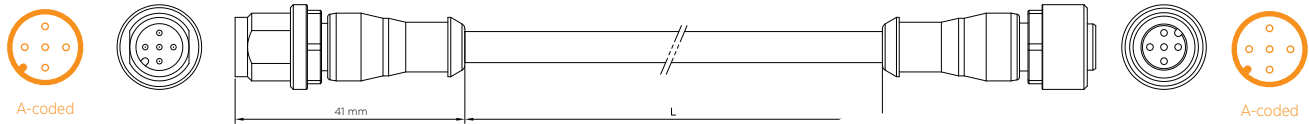
\* 2-xxxxxxx-x and 3-xxxxxxx-x only for connectors with LEDs



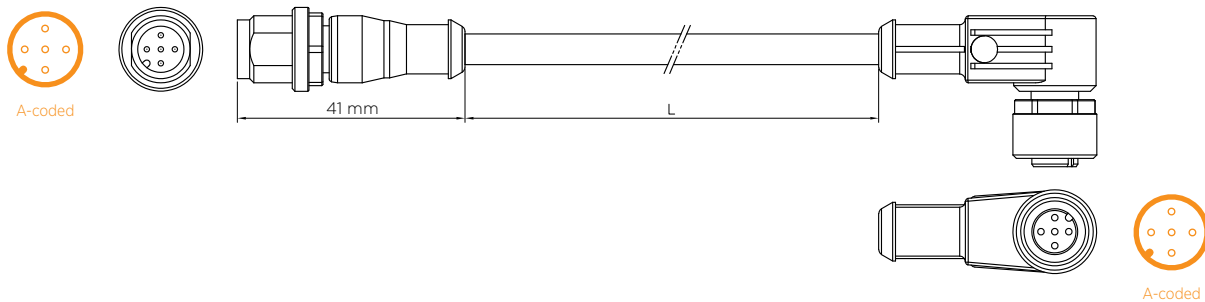
# M12 to M12 Cable Assemblies

## M12 Male to M12 Female Series

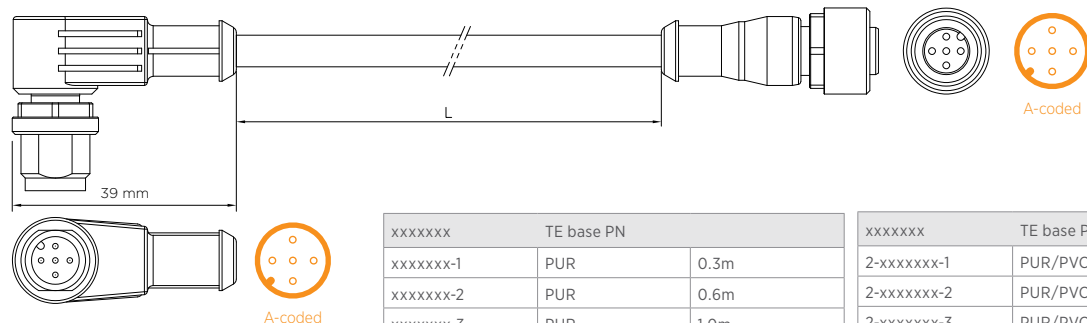
| TE Part Number | Description                                         | Available In                                                           |
|----------------|-----------------------------------------------------|------------------------------------------------------------------------|
| 2273112        | M12 Straight plug to M12 Straight socket Unshielded | 3 positions PUR or PVC, Lengths: 0.3 m / 0.6 m / 1.0 m / 1.5 m / 2.0 m |
| 2273113        | M12 Straight plug to M12 Straight socket Unshielded | 4 positions PUR or PVC, Lengths: 0.3 m / 0.6 m / 1.0 m / 1.5 m / 2.0 m |
| 2273114        | M12 Straight plug to M12 Straight socket Unshielded | 5 positions PUR or PVC, Lengths: 0.3 m / 0.6 m / 1.0 m / 1.5 m / 2.0 m |
| 2273115        | M12 Straight plug to M12 Straight socket Unshielded | 8 positions PUR, Lengths: 0.3 m / 0.6 m / 1.0 m / 1.5 m / 2.0 m        |



| TE Part Number | Description                                       | Available In                                                           |
|----------------|---------------------------------------------------|------------------------------------------------------------------------|
| 2273116        | M12 Straight plug to M12 Angled socket Unshielded | 3 positions PUR or PVC, Lengths: 0.3 m / 0.6 m / 1.0 m / 1.5 m / 2.0 m |
| 2273117        | M12 Straight plug to M12 Angled socket Unshielded | 4 positions PUR or PVC, Lengths: 0.3 m / 0.6 m / 1.0 m / 1.5 m / 2.0 m |
| 2273118        | M12 Straight plug to M12 Angled socket Unshielded | 5 positions PUR or PVC, Lengths: 0.3 m / 0.6 m / 1.0 m / 1.5 m / 2.0 m |



| TE Part Number | Description                                       | Available In                                                           |
|----------------|---------------------------------------------------|------------------------------------------------------------------------|
| 2273120        | M12 Angled plug to M12 Straight socket Unshielded | 3 positions PUR or PVC, Lengths: 0.3 m / 0.6 m / 1.0 m / 1.5 m / 2.0 m |
| 2273121        | M12 Angled plug to M12 Straight socket Unshielded | 4 positions PUR or PVC, Lengths: 0.3 m / 0.6 m / 1.0 m / 1.5 m / 2.0 m |
| 2273122        | M12 Angled plug to M12 Straight socket Unshielded | 5 positions PUR or PVC, Lengths: 0.3 m / 0.6 m / 1.0 m / 1.5 m / 2.0 m |



| xxxxxxx     | TE base PN |      |
|-------------|------------|------|
| xxxxxxx-1   | PUR        | 0.3m |
| xxxxxxx-2   | PUR        | 0.6m |
| xxxxxxx-3   | PUR        | 1.0m |
| xxxxxxx-4   | PUR        | 1.5m |
| xxxxxxx-5   | PUR        | 2.0m |
| 1-xxxxxxx-1 | PVC        | 0.3m |
| 1-xxxxxxx-2 | PVC        | 0.6m |
| 1-xxxxxxx-3 | PVC        | 1.0m |
| 1-xxxxxxx-4 | PVC        | 1.5m |
| 1-xxxxxxx-5 | PVC        | 2.0m |

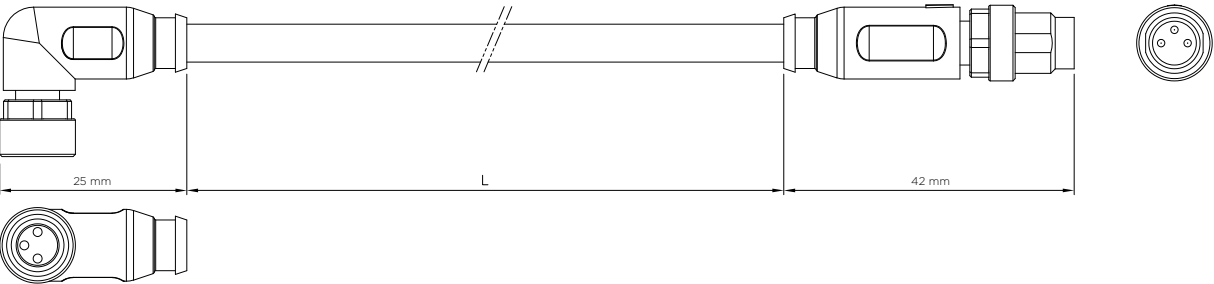
| xxxxxxx     | TE base PN     |      |
|-------------|----------------|------|
| 2-xxxxxxx-1 | PUR/PVC        | 0.3m |
| 2-xxxxxxx-2 | PUR/PVC        | 0.6m |
| 2-xxxxxxx-3 | PUR/PVC        | 1.0m |
| 2-xxxxxxx-4 | PUR/PVC        | 1.5m |
| 2-xxxxxxx-5 | PUR/PVC        | 2.0m |
| 3-xxxxxxx-1 | PUR Spark res. | 0.3m |
| 3-xxxxxxx-2 | PUR Spark res. | 0.6m |
| 3-xxxxxxx-3 | PUR Spark res. | 1.0m |
| 3-xxxxxxx-4 | PUR Spark res. | 1.5m |
| 3-xxxxxxx-5 | PUR Spark res. | 2.0m |

\* 2-xxxxxxx-x and 3-xxxxxxx-x only for connectors with LEDs

# M8 to M8 Cable Assemblies

## M8 Female to M8 Male Series LED

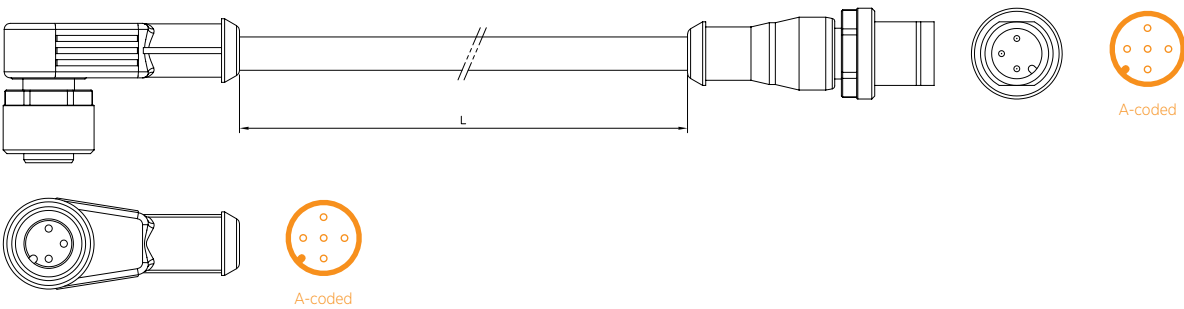
| TE Part Number | Description                                | Available In                                                                                           |
|----------------|--------------------------------------------|--------------------------------------------------------------------------------------------------------|
| 2273124        | M8 Angled socket to M8 Straight plug 2 LED | 3 positions PUR, PVC, PUR/PVC and Welding Spark resistant<br>Lengths: 0.3m / 0.6m / 1.0m / 1.5m / 2.0m |



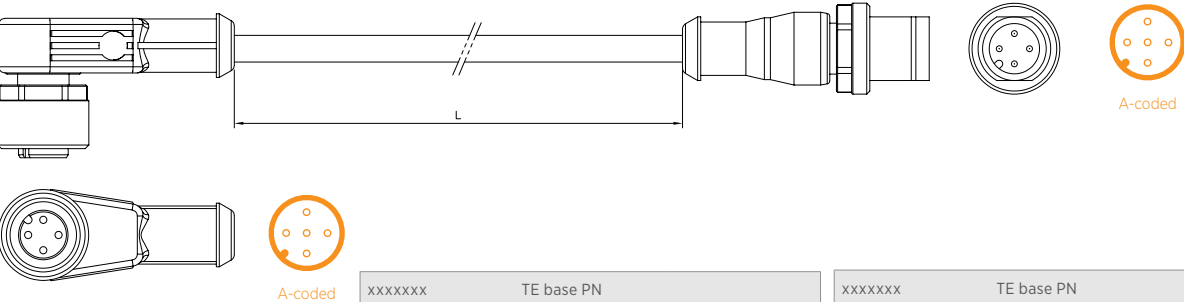
# M12 to M12 Cable Assemblies

## M12 Female to M12 Male Series LED

| TE Part Number | Description                                  | Available In                                                                                           |
|----------------|----------------------------------------------|--------------------------------------------------------------------------------------------------------|
| 2273125        | M12 Angled socket to M12 Straight plug 2 LED | 3 positions PUR, PVC, PUR/PVC and Welding Spark resistant<br>Lengths: 0.3m / 0.6m / 1.0m / 1.5m / 2.0m |



| TE Part Number | Description                                  | Available In                                                                                             |
|----------------|----------------------------------------------|----------------------------------------------------------------------------------------------------------|
| 2273126        | M12 Angled socket to M12 Straight plug 3 LED | 4 positions PUR, PVC, PUR/PVC and Welding Spark resistant<br>Lengths: 0.3m / 0.6m / 1.0m / 1.5m / 2.0m   |
| 2273127        | M12 Angled socket to M12 Straight plug 3 LED | 5 positions PUR or PVC, PUR/PVC and Welding Spark resistant<br>Lengths: 0.3m / 0.6m / 1.0m / 1.5m / 2.0m |



| xxxxxxx     | TE base PN |      |
|-------------|------------|------|
| xxxxxxx-1   | PUR        | 0.3m |
| xxxxxxx-2   | PUR        | 0.6m |
| xxxxxxx-3   | PUR        | 1.0m |
| xxxxxxx-4   | PUR        | 1.5m |
| xxxxxxx-5   | PUR        | 2.0m |
| 1-xxxxxxx-1 | PVC        | 0.3m |
| 1-xxxxxxx-2 | PVC        | 0.6m |
| 1-xxxxxxx-3 | PVC        | 1.0m |
| 1-xxxxxxx-4 | PVC        | 1.5m |
| 1-xxxxxxx-5 | PVC        | 2.0m |

| xxxxxxx     | TE base PN     |      |
|-------------|----------------|------|
| 2-xxxxxxx-1 | PUR/PVC        | 0.3m |
| 2-xxxxxxx-2 | PUR/PVC        | 0.6m |
| 2-xxxxxxx-3 | PUR/PVC        | 1.0m |
| 2-xxxxxxx-4 | PUR/PVC        | 1.5m |
| 2-xxxxxxx-5 | PUR/PVC        | 2.0m |
| 3-xxxxxxx-1 | PUR Spark res. | 0.3m |
| 3-xxxxxxx-2 | PUR Spark res. | 0.6m |
| 3-xxxxxxx-3 | PUR Spark res. | 1.0m |
| 3-xxxxxxx-4 | PUR Spark res. | 1.5m |
| 3-xxxxxxx-5 | PUR Spark res. | 2.0m |

\* 2-xxxxxxx-x and 3-xxxxxxx-x only for connectors with LEDs

## Cable Assembly Notes

This image shows a full page of blank graph paper. The grid consists of thin, light gray horizontal and vertical lines that intersect to form small squares across the entire surface. There are no margins, text, or other markings on the paper.

# I/O MODULES

Complementary to the M8/M12 cable assemblies and connectors, TE offers compact I/O modules for Industrial applications. The I/O modules are well accepted in the Industrial Automation industry and the concept of TE's I/O modules is simple, efficient and cost effective.

|                          |                                                                                               |
|--------------------------|-----------------------------------------------------------------------------------------------|
| Standard (IEC):          | IEC 61076-2-104 for all M8 series and IEC 61076-2-101 for all M12 series                      |
| Ambient temperature:     | -25°C to +85°C for the connectors<br>(for cable assemblies please refer to specific drawings) |
| Connector Contacts:      | Current rating per contact is 4 A                                                             |
| Shielding: Yes/No        | Refer to drawing                                                                              |
| Suitable Cable Diameter: | Refer to drawing                                                                              |
| IP Rating:               | IP65/67                                                                                       |
| Sensor Type:             | PNP                                                                                           |

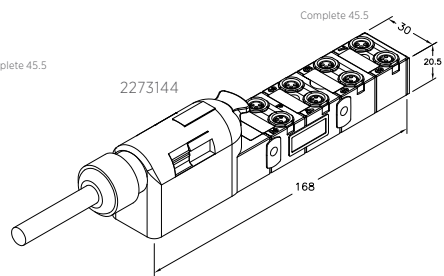
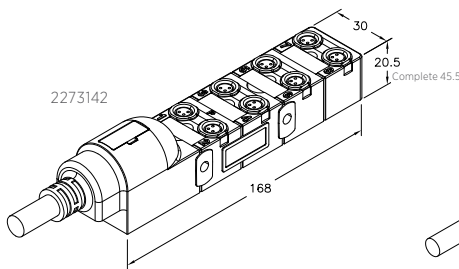
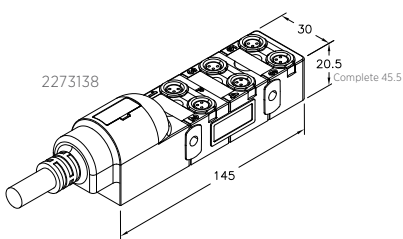
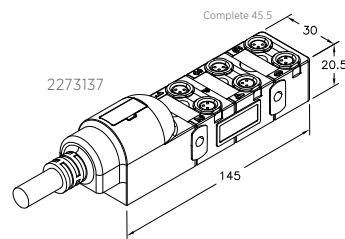
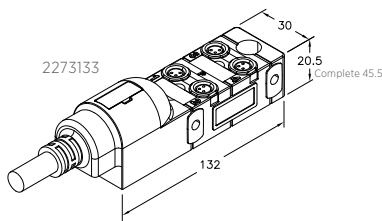
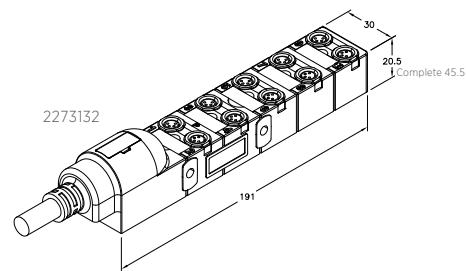
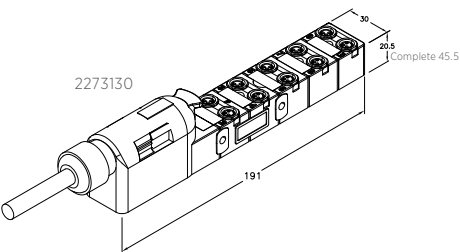
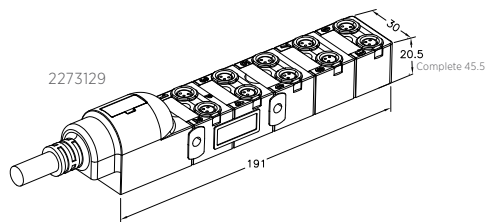


# M8 – With Cables

## M8 Series



| Description          | Positions    | TE Part Number |
|----------------------|--------------|----------------|
| PUR cable 3.0 m      | 3 pos 10 way | 2273129-1      |
| PUR cable 5.0 m      | 3 pos 10 way | 2273129-2      |
| PUR cable 10.0 m     | 3 pos 10 way | 2273129-3      |
| PUR cable 15.0 m     | 3 pos 10 way | 2273129-4      |
| PUR/PVC cable 3.0 m  | 3 pos 10 way | 2-2273129-1    |
| PUR/PVC cable 10.0 m | 3 pos 10 way | 2-2273129-2    |
| PUR cable 5.0 m      | 3 pos 10 way | 2273130-1      |
| PUR cable 3.0 m      | 4 pos 10 way | 2273132-1      |
| PUR cable 10.0 m     | 4 pos 10 way | 2273132-2      |
| PUR/PVC cable 3.0 m  | 4 pos 10 way | 1-2273132-1    |
| PUR/PVC cable 10.0 m | 4 pos 10 way | 1-2273132-2    |
| PUR cable 5.0 m      | 3 pos 4 way  | 2273133-1      |
| PUR cable 10.0 m     | 3 pos 4 way  | 2273133-2      |
| PUR/PVC cable 5.0 m  | 3 pos 4 way  | 1-2273133-1    |
| PUR/PVC cable 5.0 m  | 3 pos 6 way  | 2273137-1      |
| PUR cable 3.0 m      | 3 pos 6 way  | 2273138-1      |
| PUR cable 5.0 m      | 3 pos 6 way  | 2273138-2      |
| PUR/PVC cable 3.0 m  | 3 pos 8 way  | 2273142-1      |
| PUR/PVC cable 5.0 m  | 3 pos 8 way  | 2273142-2      |
| PUR/PVC cable 10.0 m | 3 pos 8 way  | 2273142-3      |
| PUR cable 3.0 m      | 3 pos 8 way  | 1-2273142-1    |
| PUR cable 5.0 m      | 3 pos 8 way  | 1-2273142-2    |
| PUR cable 10.0 m     | 3 pos 8 way  | 1-2273142-3    |
| PUR cable 15.0 m     | 3 pos 8 way  | 1-2273142-4    |
| PUR cable 5.0 m      | 3 pos 8 way  | 2273144-1      |
| PUR cable 10.0 m     | 3 pos 8 way  | 2273144-2      |

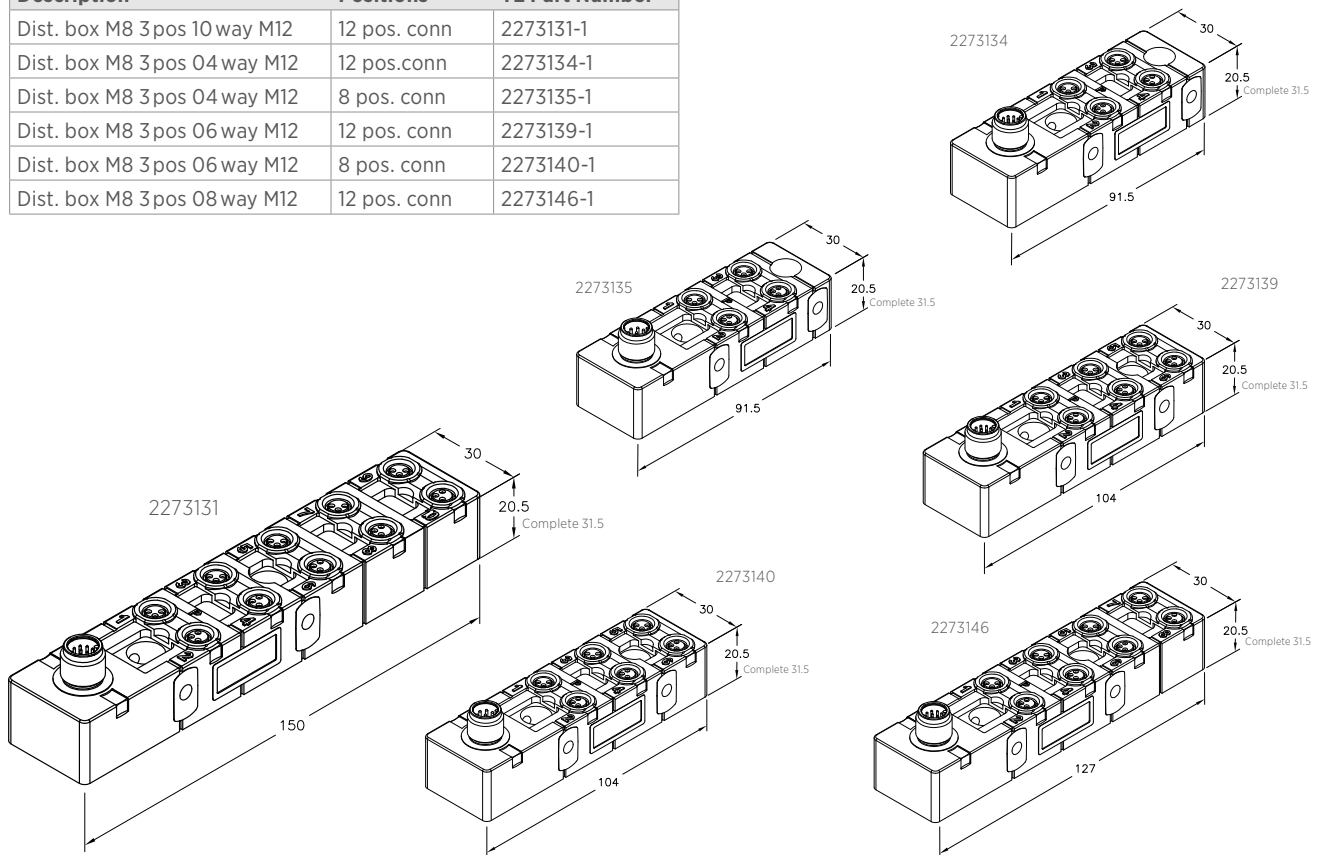


All dimensions in mm.

# M8 – With M12 Plug Connection

## M8 Series

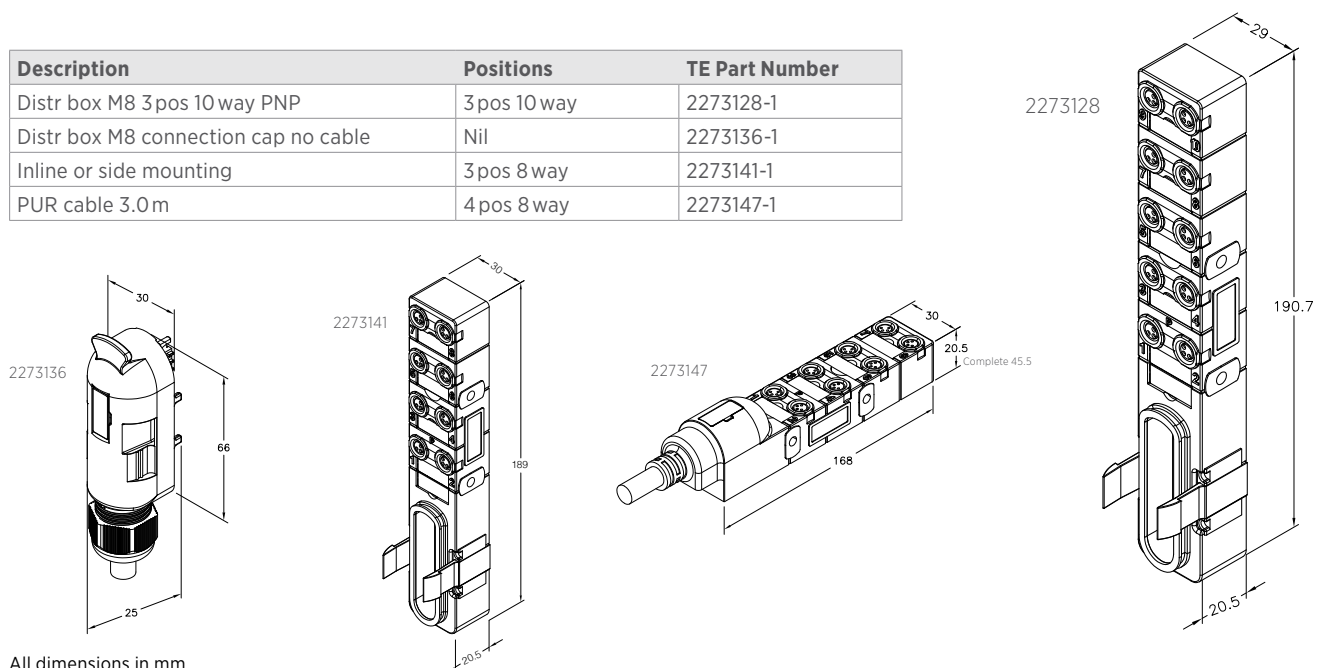
| Description                  | Positions    | TE Part Number |
|------------------------------|--------------|----------------|
| Dist. box M8 3pos 10 way M12 | 12 pos. conn | 2273131-1      |
| Dist. box M8 3pos 04 way M12 | 12 pos. conn | 2273134-1      |
| Dist. box M8 3pos 04 way M12 | 8 pos. conn  | 2273135-1      |
| Dist. box M8 3pos 06 way M12 | 12 pos. conn | 2273139-1      |
| Dist. box M8 3pos 06 way M12 | 8 pos. conn  | 2273140-1      |
| Dist. box M8 3pos 08 way M12 | 12 pos. conn | 2273146-1      |



# M8 – For Homerun Connection

## M8 Series

| Description                          | Positions    | TE Part Number |
|--------------------------------------|--------------|----------------|
| Distr box M8 3pos 10 way PNP         | 3 pos 10 way | 2273128-1      |
| Distr box M8 connection cap no cable | Nil          | 2273136-1      |
| Inline or side mounting              | 3 pos 8 way  | 2273141-1      |
| PUR cable 3.0m                       | 4 pos 8 way  | 2273147-1      |

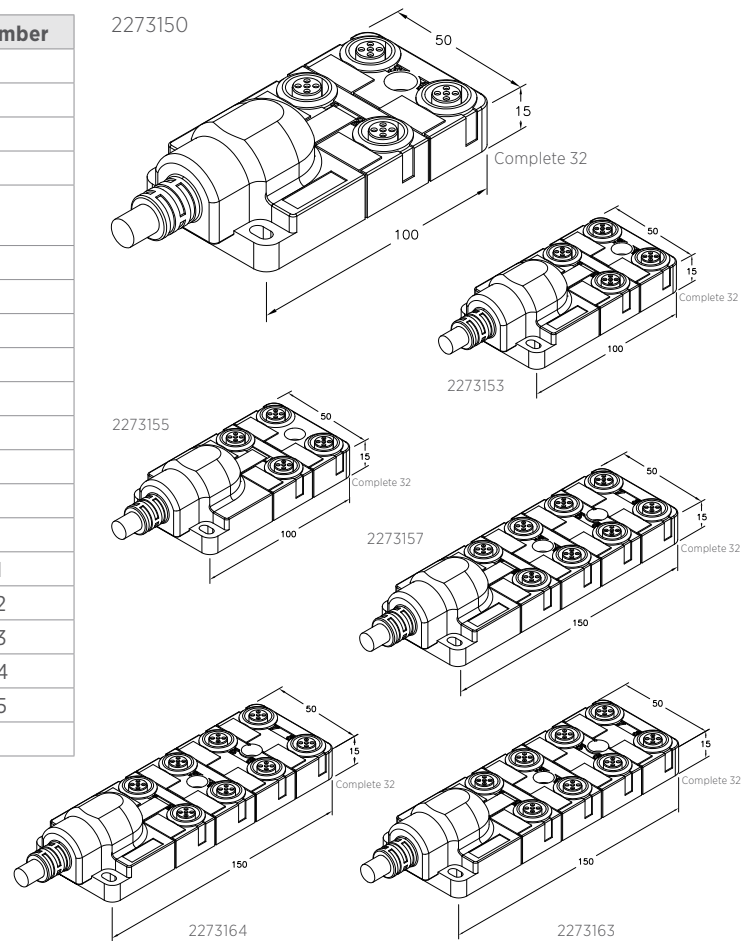


All dimensions in mm.

# M12 - With Cable

## M12 Series

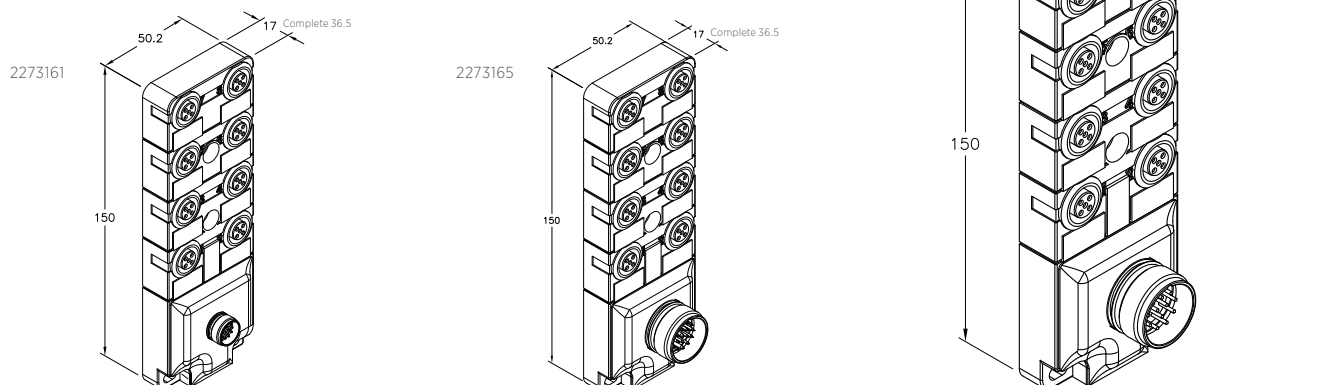
| Description                     | Positions   | TE Part Number |
|---------------------------------|-------------|----------------|
| PUR/PVC cable 5.0m              | 4 pos 4 way | 2273150-1      |
| PUR/PVC cable 10.0m             | 4 pos 4 way | 2273150-2      |
| PUR/PVC cable 5.0m              | 5 pos 4 way | 2273153-1      |
| PUR/PVC cable 10.0m             | 5 pos 4 way | 2273153-2      |
| With PUR/PV Homerun Cable 10.0m | 5 pos 4 way | 2273155-1      |
| PUR/PVC cable 3.0m              | 4 pos 8 way | 2273157-1      |
| PUR/PVC cable 5.0m              | 4 pos 8 way | 2273157-2      |
| PUR/PVC cable 10.0m             | 4 pos 8 way | 2273157-3      |
| PUR/PVC cable 15.0m             | 4 pos 8 way | 2273157-4      |
| PUR/PVC cable 3.0m              | 5 pos 8 way | 2273163-1      |
| PUR/PVC cable 5.0m              | 5 pos 8 way | 2273163-2      |
| PUR/PVC cable 10.0m             | 5 pos 8 way | 2273163-3      |
| PUR/PVC cable 15.0m             | 5 pos 8 way | 2273163-4      |
| PUR/PVC cable 20.0m             | 5 pos 8 way | 2273163-5      |
| PUR cable 3.0m                  | 5 pos 8 way | 1-2273163-1    |
| PUR cable 5.0m                  | 5 pos 8 way | 1-2273163-2    |
| PUR cable 10.0m                 | 5 pos 8 way | 1-2273163-3    |
| PUR cable 15.0m                 | 5 pos 8 way | 1-2273163-4    |
| PUR cable 20.0m                 | 5 pos 8 way | 1-2273163-5    |
| PUR/PVC cable 5.0m              | 5 pos 8 way | 2273164-1      |



# M12 - With M12/M23 Plug Connection

## M12 Series

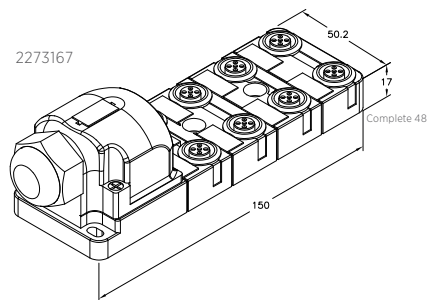
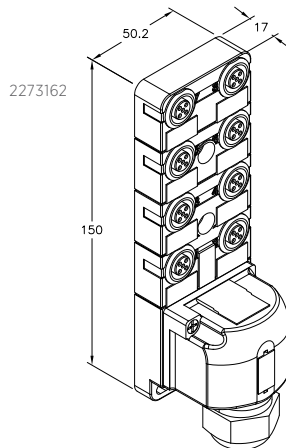
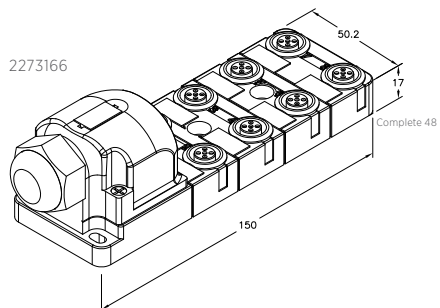
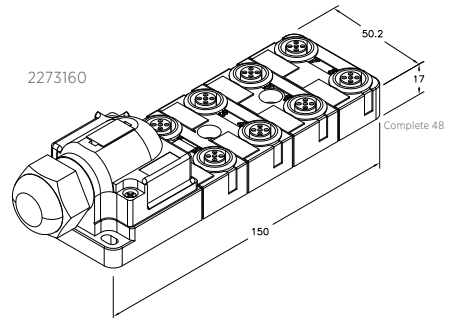
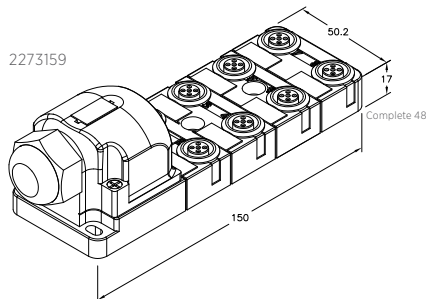
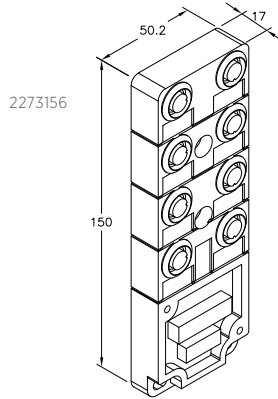
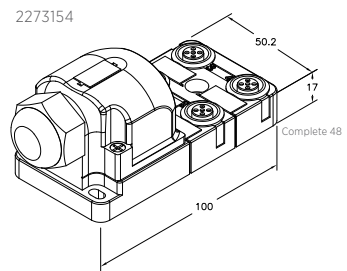
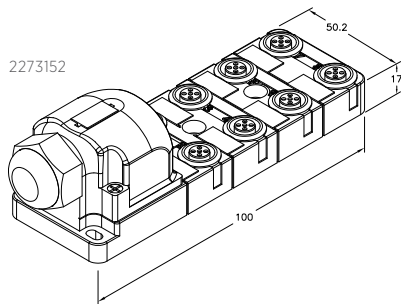
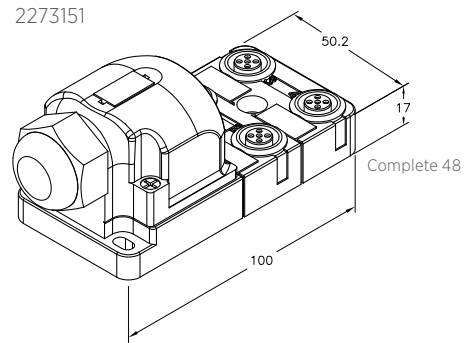
| Description                             | Positions     | TE Part Number |
|-----------------------------------------|---------------|----------------|
| Without homerun cable                   | 4 pos 8 way   | 2273158-1      |
| Distr box M12 4-5 pos 8 way M12/12p PNP | 4-5 pos 8 way | 2273161-1      |
| Distr box M12 5 pos 4 way M23/19p PNP   | 5 pos 4 way   | 2273165-1      |



# M12 - No Cable/With Cable Gland

## M12 Series

| Description           | Positions   | TE Part Number |
|-----------------------|-------------|----------------|
| With plug cap         | 4 pos 4 way | 2273151-1      |
| Without homerun cable | 5 pos 4 way | 2273152-1      |
| With plug cap         | 5 pos 4 way | 2273154-1      |
| Without homerun cable | 4 pos 8 way | 2273156-1      |
| With plug cap         | 4 pos 8 way | 2273159-1      |
| With plug cap         | 4 pos 8 way | 2273160-1      |
| Without homerun cable | 5 pos 8 way | 2273162-1      |
| With plug cap         | 5 pos 8 way | 2273166-1      |
| With plug cap         | 5 pos 8 way | 2273167-1      |



All dimensions in mm.

# M8/M12 Website

A collection of various M8 and M12 connectors, including circular and rectangular types, some with cable assemblies, arranged on a light surface.

CONNECTORS  
TE CONNECTIVITY (TE)  
M8/M12 Connector System

OVERVIEW RELATED MATERIALS

## EFFECTIVE TERMINATION

Safe and reliable communication. Our M8/M12 connector system provides a full solution that includes connectors, IO modules, and cable assemblies.

LEARN MORE

**High-speed communication.** Our M8/M12 connector system for machine industrial automation and control applications safely and reliably ensures the communication in industrial environments. Our connector solution includes an extensive

connector range of PCB headers, cable assemblies and IO boxes, and provides users with a future-proof interface that supports higher bandwidth needs of up to 10 Gb/s.

M8/M12 Categories  
Partnumbers

M8 Connector System  
M8 connector part numbers

M12 Connector System  
M12 connector part numbers

[te.com/m8m12](https://te.com/m8m12)

## FIND THE PART NUMBERS AND INFORMATION YOU ARE LOOKING FOR

### Additional Information

Read more about the connector and cable assembly portfolio on the M8/M12 website - in many different languages.

### Download the product flyer

Find all information you need at one glance in the M8/M12 connector system product flyer.

### View the video

See our M8/M12 connector system video and learn about the product features, benefits and applications.

### Find the products

If you are looking for a specific product or part number, the M8/M12 website is the place to look. Find the images, drawings, technical specifications and much more.

1-1773701-8 SL 05/2018

© 2018 TE Connectivity Ltd. family of companies. All Rights Reserved.

TE Connectivity, TE Connectivity (logo) and Every Connection Counts are trademarks. All other logos, product and/or company names referred to herein might be trademarks of their respective owners.

The information given herein, including drawings, illustrations and schematics which are intended for illustration purposes only, is believed to be reliable. However, TE Connectivity makes no warranties as to its accuracy or completeness and disclaims any liability in connection with its use. TE Connectivity 's obligations shall only be as set forth in TE Connectivity 's Standard Terms and Conditions of Sale for this product and in no case will TE Connectivity be liable for any incidental, indirect or consequential damages arising out of the sale, resale, use or misuse of the product. Users of TE Connectivity products should make their own evaluation to determine the suitability of each such product for the specific application.



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.