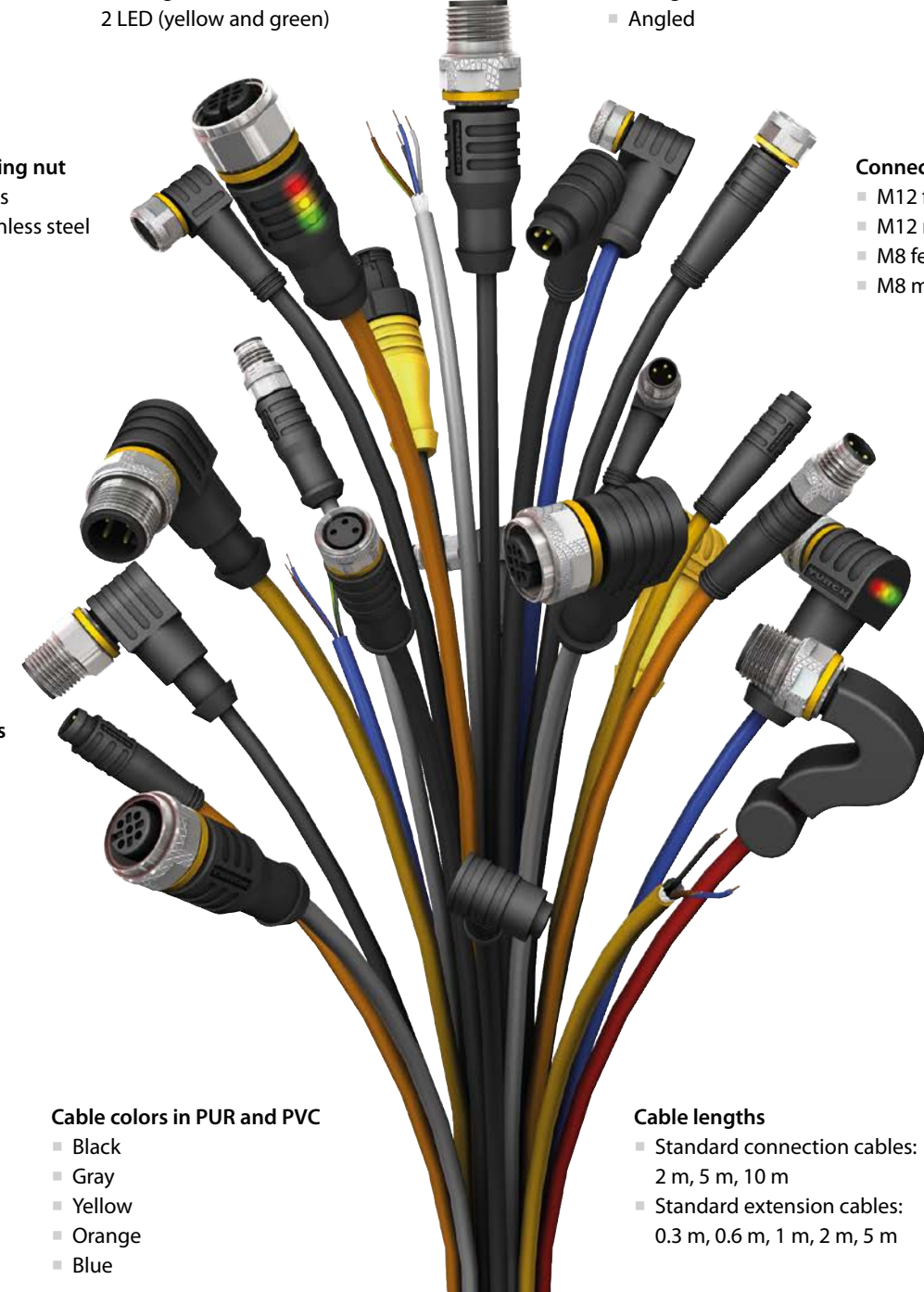


# Portfolio M8 and M12

- LED**
  - M12, straight or angled
    - 2 LED (yellow and green)
    - 3 LED (yellow, yellow and green)
    - 3 LED (red, yellow and green)
    - 3 LED (white, yellow and green)
  - M8, angled
    - 2 LED (yellow and green)
- Design**
  - Straight
  - Angled
- Coupling nut**
  - Brass
  - Stainless steel
- Connector type**
  - M12 female
  - M12 male
  - M8 female
  - M8 male
- Shielding**
  - Shielded
  - Unshielded
- Number of pins**
  - M8
    - 3-pin
    - 4-pin
  - M12
    - 3-pin
    - 4-pin
    - 4-pin and PE
    - 5-pin
    - 8-pin
    - 12-pin
- Cable colors in PUR and PVC**
  - Black
  - Gray
  - Yellow
  - Orange
  - Blue
- Cable lengths**
  - Standard connection cables:
    - 2 m, 5 m, 10 m
  - Standard extension cables:
    - 0.3 m, 0.6 m, 1 m, 2 m, 5 m
- Customized solution**
  - Your individual solution



# Types and Features

|   |                         | M8                    | M12                       | M16                       | 7/8"            | M23        |              |
|---|-------------------------|-----------------------|---------------------------|---------------------------|-----------------|------------|--------------|
| Actuator/sensor connection  | Number of pins          | 3, 4, 5               | 3, 4, 5, 8, 12            | 2-19                      | 2-19            | 6-19       |              |
|   | Number of pins with LED | 3, 4 (angled)         | 3, 4, 5                   | -                         | -               | -          |              |
|   | Shield                  | Optional              | Optional                  | Optional                  | Optional        | Optional   |              |
|   | Field-wireable          | Optional              | Optional                  | Optional                  | Optional        | Optional   |              |
|   |                         | <b>Deutsch</b>        | <b>Superseal</b>          | <b>Valve connector</b>    |                 |            |              |
| Type  |                         | DT06, DT04            | TSS                       | A, B, BI, C, CI           |                 |            |              |
| Number of pins  |                         | 2, 3, 4, 6, 8, 12     | 2, 3, 4, 5, 6             | 2, 3, 4                   |                 |            |              |
| Number of pins with LED   |                         | 2, 3, 4 <sup>1)</sup> | -                         | 2, 3, 4 <sup>1)</sup>     |                 |            |              |
| Field-wireable  |                         | -                     | -                         | Optional                  |                 |            |              |
| <sup>1)</sup> possible protection circuits can be found in the main catalog or on www.turck.com |                         |                       |                           |                           |                 |            |              |
|   |                         | M8                    | M12                       | 7/8"                      | M16             | M23        | M40          |
| Power connection  | Number of pins          | 3, 4                  | 4, 5                      | 2, 3, 4, 5                | 2, 3, 4, 5      | 4, 5       | 4<br>8 (4+4) |
|   | Voltage/Current         | 30V / 4A              | 60/300V/16A               | 300V / 9A                 | 400V / 20A      | 400V / 20A | 600V / 40A   |
|   | Field-wireable          | Optional              | Optional                  | Optional                  | Optional        | Optional   | -            |
|   |                         | M8                    | M12                       | 7/8"                      | RJ45            |            |              |
| Bus   | PROFIBUS-DP Cable       | -                     | PUR + PVC violet          | -                         | -               |            |              |
|   | Coding connector        | -                     | B                         | -                         | -               |            |              |
|   | Shield                  | -                     | •                         | -                         | -               |            |              |
|   | Field-wireable          | -                     | Optional                  | -                         | -               |            |              |
| CAN/DeviceNet   | Cable                   | PUR + PVC anthracite  | PUR + PVC gray/anthracite | PUR + PVC gray/anthracite | -               |            |              |
|   | Coding connector        | A                     | A                         | according to ODVA         | -               |            |              |
|   | Shield                  | Cable                 | Cable                     | Cable                     | -               |            |              |
|   | Field-wireable          | Optional              | Optional                  | Optional                  | -               |            |              |
| VARAN   | Cable                   | -                     | black                     | -                         | black           |            |              |
|   | Coding connector        | -                     | A                         | -                         | -               |            |              |
|   | Shield                  | -                     | •                         | -                         | •               |            |              |
|   | Field-wireable          | -                     | Optional                  | -                         | •               |            |              |
| PROFINET  | Cable                   | Green PUR             | Green PUR                 | -                         | Green PUR       |            |              |
|   | Coding connector        | A                     | D                         | -                         | -               |            |              |
|   | Shield                  | •                     | •                         | -                         | •               |            |              |
|   | Field-wireable          | -                     | Optional                  | -                         | Optional        |            |              |
| Industrial Ethernet   | Cable                   | Green PUR + PVC       | Green PUR + PVC           | -                         | Green PUR + PVC |            |              |
|   | Coding connector        | A                     | A, D, X                   | -                         | -               |            |              |
|   | Shield                  | •                     | •                         | -                         | •               |            |              |
|   | Field-wireable          | Optional              | Optional                  | -                         | Optional        |            |              |

Your Global Automation Partner

# Connectivity Connect and Distribute



Over 30 subsidiaries and 60 representatives worldwide!





# Connectivity – Connect and Distribute

With wide range of connection technology, Turck offers diverse modules for tailor-made, customer-specific solutions. Take advantage of our extensive offering for “connect and distribute” tasks. These include connection, extension and bus cables, control cabi-

net feed-throughs and mounting flanges, field-wireable connectors and cables as bulk types, as well as passive and active splitters, but also accessories such as tools, counter nuts and terminating resistors. With around 115,000 different connection technology

products, Turck offers broad flexibility with regard to customer-specific requirements for details such as pin assignment, cable length, etc. The portfolio includes, for example, the metric connector bodies M8, M12, M16, M23, M27 and M40, and also the imperial measure-

ments 1/2", 7/8", 1", 1 1/8" and 1 3/8", as well as different designs (straight, angled, with/without LED, with/without shielding), cable qualities and colors (PVC, PUR, PP in black, yellow, orange, gray, blue, white, green, violet). Not least, Turck also offers connector solutions

for special applications such as flange, valve, Deutsch and Superseal plugs. Turck delivers exactly the quantity that you require: from solutions with several 100,000s of units down to only a few individual units when required for specific customer needs. We will be happy

to extend our portfolio even further with your individual requirements.

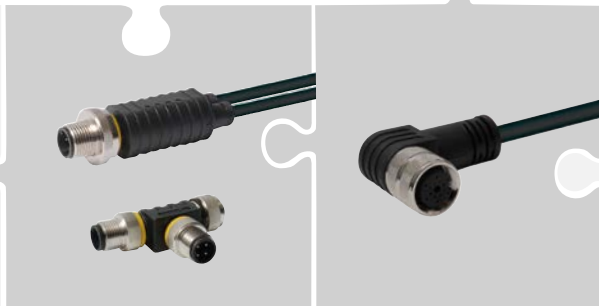
## Round connectors M12 x 1

M12 x 1 round connectors are the standard for industrial use. Tried and tested in millions of applications, these connectors are used in a wide range of areas: from the food industry through to welding and bus applications.



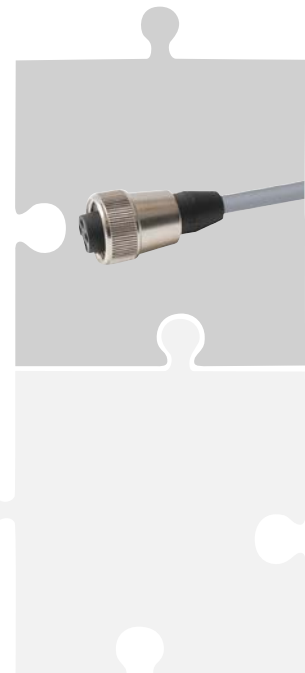
## Round connectors M16 x 0.75 and M23 x 1

Round connectors in M16 x 0.75 and M23 x 1 are used wherever an increased number of pins (up to 19-pin) is required. These are used to connect multi-splitter systems. The overmolded cables considerably reduce connection times.



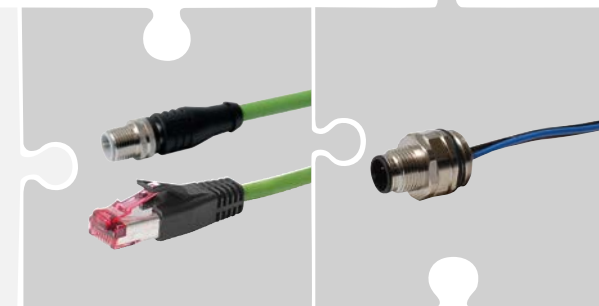
## Round connectors 1/2", 7/8", 1", 1 1/8" and 1 3/8"

Round connectors with imperial measurements are suitable for applications with increased power requirements. These connectors are a good choice for connecting sensors or other field devices with voltages of up to 600 V and current ratings of up to 9 A.



## Flange connectors

A mounting flange is available for all the mentioned connector systems with front and rear wall mounting, printed or soldered contacts, as well as with stranded wires. They transform any control cabinet into a plug-and-play device or act as a circuit board connection.



## Field-Wireable connectors

Field-wireable connectors are available in sizes M8 x 1, M12 x 1, 1/2", 7/8", M16 x 0.75, M23 x 1 and also as valve plug. The connectors make installation easier in applications in which it is difficult to estimate the needed cable length in advance.



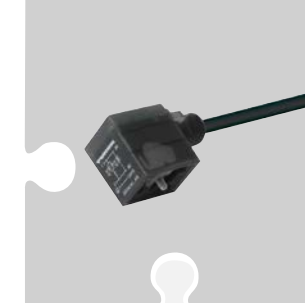
## Accessories

To complete our connectivity portfolio, we offer various articles as an accessory. These include, for example, assembly tools, terminating resistors and wall feedthroughs, but also portfolio additions such as nuts, caps and labels.



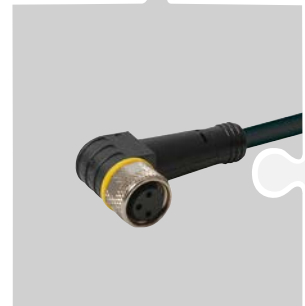
## Valve connectors

Valve connectors with the designs A, B, BI, C or CI are available with and without protective circuit for the connection of various different valves. Optional LED displays significantly reduce troubleshooting effort.



## Round connectors M8 x 1

M8 x 1 round connectors are used wherever sensors and actuators are used in small constructions. The connection cables are also available with and without LEDs.



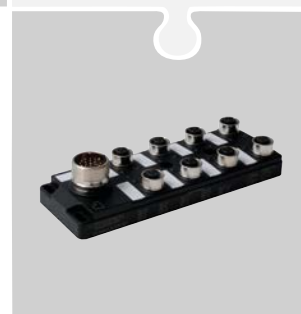
## 2-way splitters

2-way splitters combine two sensor signals or distribute two actuator signals. The number of cables to be installed can be significantly reduced. The 2-way splitters are available in the designs M8 x 1, M12 x 1 and 7/8".



## Multiple junction systems

Passive 4-, 6- and 8-way junction boxes combine input signals or distribute output signals. This means up to 16 I/O signals can be transmitted via a single multicore cable. The multi-junction systems are available in M8- and M12-type.



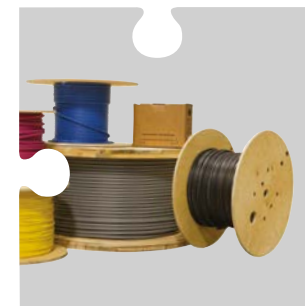
## Ethernet cables

The Ethernet connection cables are available in various versions: with RJ45S, M8 or M12 connectors with a straight and angled design as well as flange connectors. With their high bending cycles, the cables are ideally suited for drag chain operation.



## Cables as bulk types

Turck offers cables in different qualities and colors, perfectly tailored to the respective application. The product range covers PVC to PUR and PP cables. All cables are available as bulk cables or with injection-moulded connectors.



## Cables for the food industry

Connection cables for the food industry are available with M12 or M8 connectors in straight and angled versions. The new grip design ensures very user-friendly cleaning, which reduces the accumulation of bacteria and microbes.



## Deutsch and Superseal connectors

The valve plug connectors in the Deutsch and Superseal series are available with various number of pins. With their robust design and protection class IP67, they are ideal for use in mobile applications. The DT series is also available with LED and protection circuit.

