

### M12 male 90° A-cod. with cable

TPE 5x22AWG ye UL/CSA, ITC/PLTC 5m

Art.No.: 7700-12121-U050500

Weight: 0.313

Model designation: MSCL0-UU05\_5.0

### Advantages of our connectors:

Our connectors are versatile and specially optimised for industrial environments. All connectors are 100% tested during the manufacturing process to ensure the highest quality and reliability.

The contacts are gold-plated, which ensures optimum conductivity. Thanks to the high degree of protection, the connectors are ideal for demanding industrial environments. They are also vibration-resistant - this is ensured by the union nut with vibration protection.

Our connectors are resistant to oils and cooling lubricants, but resistance to aggressive media should be tested for each specific application. Different cable lengths available [on request](#)

If you are missing technical information? Please feel free to use our [dictionary](#) to find more technical details.

### Product details:

Male 90°

M12, 5-pole

USA

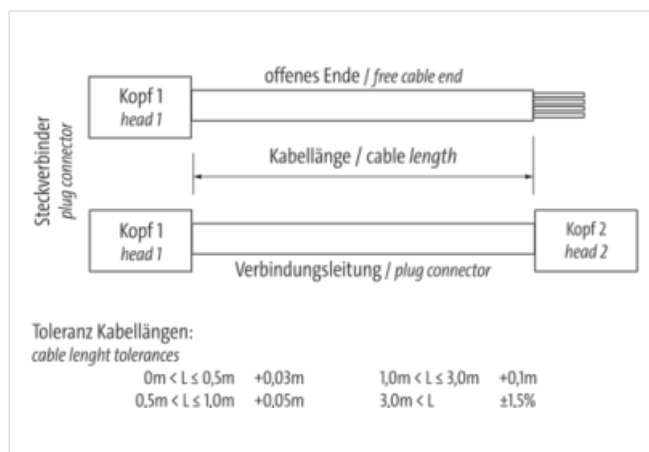
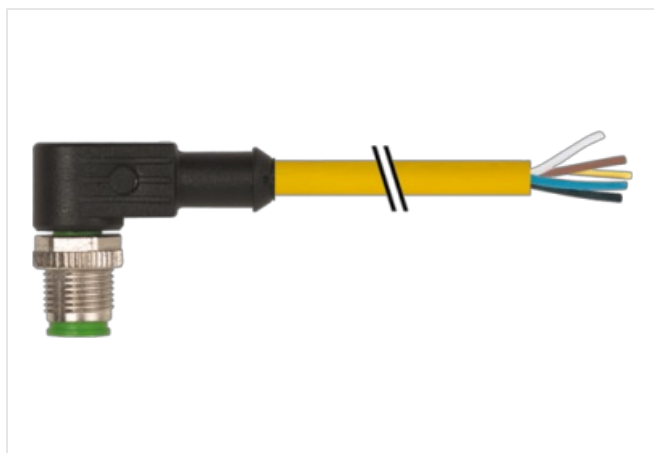
Plastic housings with good resistance against chemicals and oils.

The resistance to aggressive media should be individually tested for your application. Further details on request.

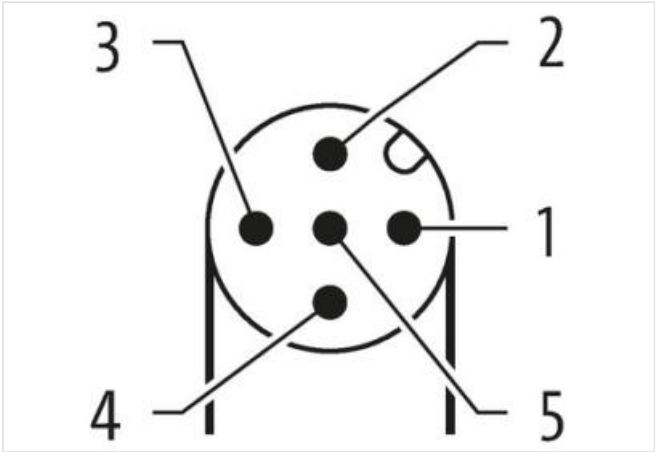
Further cable lengths on request.

### Link to Product

#### Illustration



|   |       |
|---|-------|
| 1 | BN    |
| 2 | WH    |
| 3 | BU    |
| 4 | BK    |
| 5 | GN YE |



Product may differ from Image



|   |                   |
|---|-------------------|
| Cable length                              | 5 m               |
| Side 1                                    |                   |
| Tightening torque                         | 0,6 Nm            |
| Mounting method                           | inserted, screwed |
| Family construction form                  | M12               |
| Thread                                    | M12 x 1           |
| suitable for corrugated tube (internal Ø) | 10 mm             |
| Cable outlet                              | angled            |
| Coding                                    | A                 |
| No. of poles                              | 5                 |
| Width across flats                        | SW13              |
| Degree of protection (EN IEC 60529)       | IP65, IP66K, IP67 |
| Side 2                                    |                   |
| Stripping length (jacket)                 | 20 mm             |
| Electrical data   Supply                  |                   |
| Operating voltage AC max.                 | 125 V             |
| Operating voltage DC max.                 | 125 V             |

Current operating per contact max. 4 A

#### Installation | Connection

Stripping length (jacket) 20 mm

#### Device protection | Electrical

Pollution Degree 3

Rated surge voltage 1,5 kV

Material group (IEC 60664-1) I

#### Mechanical data | Material data

Locking screw coating nickel plated

Locking material screw Zinc die-casting

#### Mechanical data | Mounting data

Mounting method inserted, screwed, Shaking protection

#### Environmental characteristics | Climatic

Operating temperature min. -25 °C

Operating temperature max. 85 °C

Additional condition temperature range depending on cable quality

#### Important installation notes

Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.

Note on bending radius **Attention:** Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.

#### Conformity

Product standard DIN EN 61076-2-101 (M12)

#### Installation | Cable

wire arrangement brown, black, blue, white, green-yellow

Cable identification U05

Jacket Color yellow

Type of Certificate cURus

Amount stranding 1

Stranding 5 wires around Core filler twisted

Filler yes

wire arrangement brown, black, blue, white, green-yellow

Cable weight 59,4 g/m

Material jacket TPE

Freedom from ingredients (jacket) lead-free, CFC-free, halogen-free

Outer-diameter (jacket) 5,72 mm

Tolerance outer diameter (sheath)  $\pm 5\%$

Material wire insulation PVC

Amount wires 5

Outer diameter insulation 1,27 mm

Outer diameter tolerance core insulation  $\pm 5\%$

Ingredient freeness wire insulation lead-free, CFC-free

Amount strands (wire) 19

Diameter of single wires 22 AWG

Conductor crosssection (wire) 22 AWG

Material conductor wire Stranded copper wire, bare

Nominal voltage AC max. 300 V

Current load capacity (standard) to DIN VDE 0298-4

Current load capacity min. wire 4,5 A

Electrical resistance line constant wire 46,9  $\Omega$ /km @ 20 °C

AC withstand voltage (wire - wire) 2 kV @ 60 s

Power frequency withstand voltage (wire - jacket) 2 kV @ 60 s

|                                      |  |
|--------------------------------------|--|
| Min. operating temperature (static)  | -40 °C   |
| Max. operating temperature (fixed)   | 105 °C   |
| Operating temperature min. (dynamic) | -20 °C   |
| Operating temperature max. (dynamic) | 90 °C  |
| Flame resistance                     | UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  |
| chemical resistance                  | Good, application-related testing                    |
| Gasoline resistance                  | Good, application-related testing                    |
| Oil resistance                       | Good, application-related testing   DIN EN 60811-404 |
| Bending radius (fixed)               | 5 x Outer diameter                                   |
| Bending radius (dynamic)             | 10 x Outer diameter                                  |
| No. of bending cycles (C-track)      | 10 Mio.  |
| No. of torsion cycles                | 3 Mio.   |
| Torsion stress                       | ± 180 °/m  |

#### Commercial data

|                |               |
|----------------|---------------|
| EAN            | 4048879750080 |
| EAN            | 4048879750080 |
| Packaging unit | 1             |
| Packaging unit | 1             |