

M12 female 0° A-cod. with cable

TPE 4x22AWG ye UL/CSA. ITC/PLTC 5m

Art.No.: 7700-12221-U040500

Weight: 0.259 kg

Country of origin: US

Model designation: MSBL0-TU04_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:

Female straight

M12, 4-pole

USA

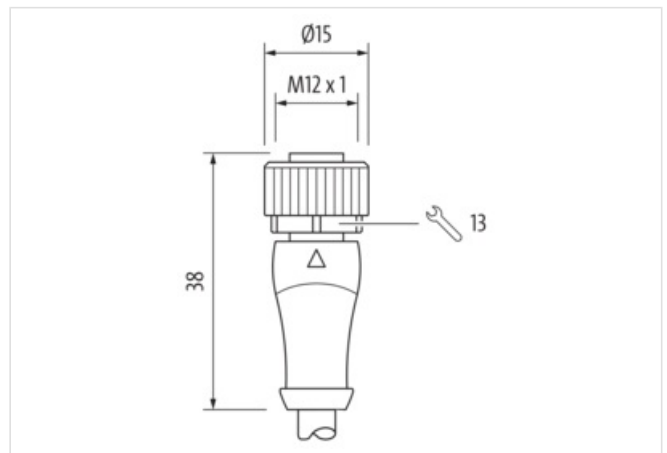
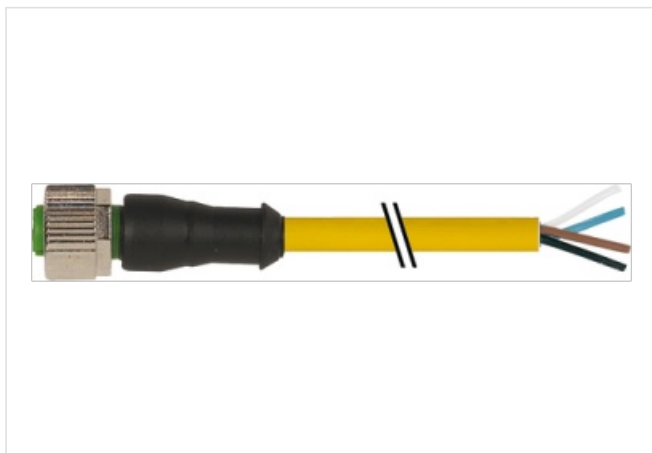
Plastic housings with good resistance against chemicals and oils.

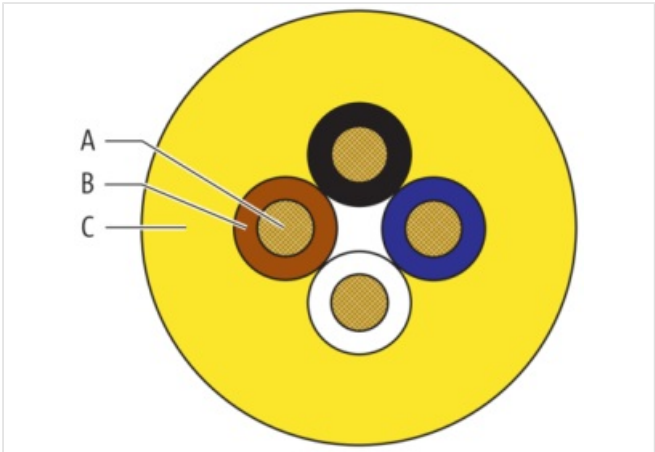
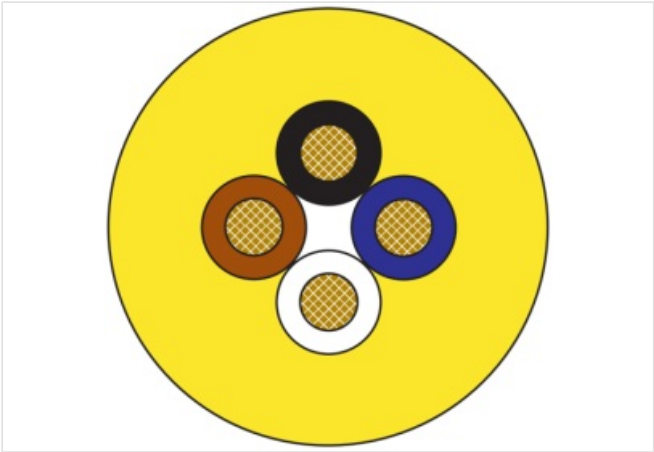
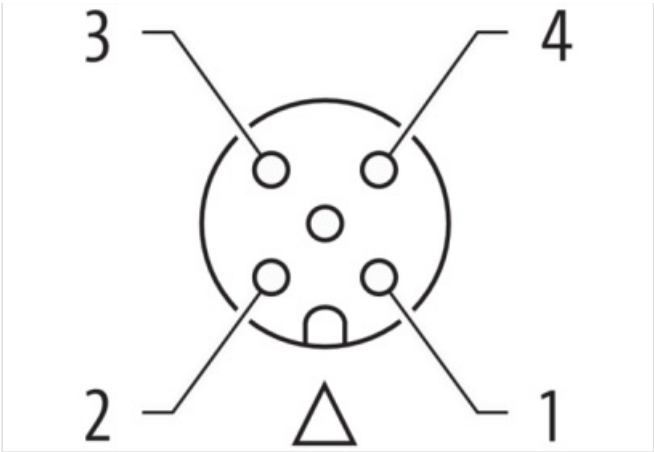
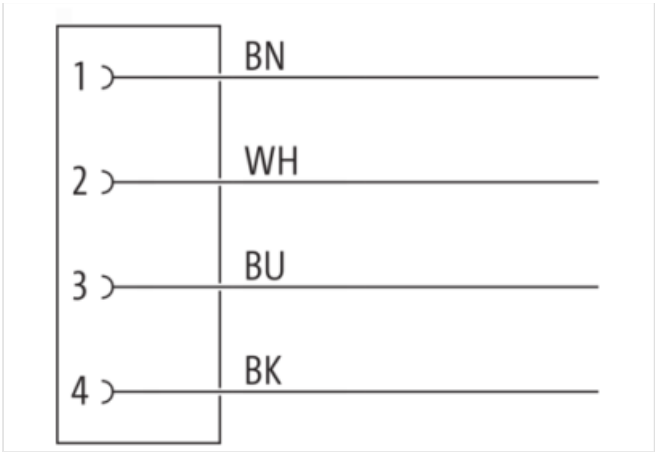
The resistance to aggressive media should be individually tested for your application. Further details on request.

Further cable lengths on request.

[Link to Product](#)

Illustration





Product may differ from Image



Header

Material short text MSBL0-TU04_5.0
Cable length 5,00 m

Side 1

| | |
|---|-------------------|
| Family construction form | M12 |
| No. of poles | 4 |
| Coding | A |
| Mounting method | inserted, screwed |
| Threaded hole | M12 x 1 |
| Tightening torque | 0,6 Nm |
| Width across flats | SW13 |
| Cable outlet | straight |
| suitable for corrugated tube (internal Ø) | 10 mm |

Side 2

| | |
|---------------------------|----------------|
| Family construction form | free cable end |
| Stripping length (jacket) | 20 mm |

Commercial data

| | |
|-----------------------|---|
| URL Webshop | https://shop.murrelektronik.com/7700-12221-U040500 |
| GTIN | 4048879746724 |
| ECLASS-6.0 | 27279218 |
| ECLASS-6.1 | 27279218 |
| ECLASS-7.0 | 27279218 |
| ECLASS-7.1 | 27279218 |
| ECLASS-8.0 | 27279218 |
| ECLASS-8.1 | 27279218 |
| ECLASS-9.0 | 27060311 |
| ECLASS-9.1 | 27060311 |
| ECLASS-10.0.1 | 27060311 |
| ECLASS-10.1 | 27060311 |
| ECLASS-11.0 | 27060311 |
| ECLASS-11.1 | 27060311 |
| ECLASS-12.0 | 27060311 |
| ECLASS-13.0 | 27060311 |
| ECLASS-14.0 | 27060311 |
| ETIM-5.0 | EC001855 |
| ETIM-6.0 | EC001855 |
| ETIM-7.0 | EC001855 |
| ETIM-8.0 | EC001855 |
| customs tariff number | 85444290 |
| EAN | 4048879746724 |
| Packaging unit | 1 |

Electrical data | Supply

| | |
|------------------------------------|-------|
| Operating voltage AC max. | 250 V |
| Operating voltage DC max. | 250 V |
| Current operating per contact max. | 4 A |

Diagnostics

| | |
|-----------------------|----|
| Status indication LED | No |
|-----------------------|----|

Device protection | Electrical

| | |
|--|-------------------|
| Degree of protection (EN IEC 60529) | IP67, IP66K, IP65 |
| Additional condition protection degree | inserted, screwed |
| Pollution Degree | 3 |
| Rated surge voltage | 2,5 kV |
| Material group (IEC 60664-1) | I |

Mechanical data | Material data

| | |
|------------------|------------------|
| Locking material | Zinc die-casting |
|------------------|------------------|

Coating locking

Nickeled

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

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

Conformity

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

Installation | Cable

Cable identification U04

Amount stranding 1

Stranding 4 wires stranded

Wire arrangement brown, black, blue, white

Cable weight 45 g/m

Material wire insulation PVC

Amount wires 4

Outer diameter insulation 1,27 mm

Outer diameter tolerance core insulation $\pm 0,05$ mm

Ingredient freeness wire insulation lead-free, CFC-free

Amount strands (wire) 19

Diameter of single wires 34 AWG

Conductor crosssection (wire) 22 AWG

Material conductor wire Stranded copper wire, bare

Outer-diameter (jacket) 5,36 mm

Tolerance outer diameter (sheath) ± 5 %

Material jacket TPE

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

Conductor resistance (wire) 46.9 Ω /km @ 20 °C

Nominal voltage max. 300 V

Withstand voltage (wire - wire) 2 kV @ 60 s

Withstand voltage (wire - jacket) 2 kV @ 60 s

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

Current load capacity max. (wire) 4,8 A

Operating temperature min. (static) -40 °C

Operating temperature max. (static) 105 °C

Operating temperature min. (dynamic) -20 °C

Operating temperature max. (dynamic) 90 °C

Flame resistance CSA FT4

Oil resistance good

Bending radius (fixed) 5 × Outer diameter

Bending radius (dynamic) 10 × Outer diameter

No. of bending cycles (C-track) 10 Mio. @ 25 °C

No. of torsion cycles 3 Mio.

Torsion stress 180 °/m