

M12 female 0° A-cod. with cable

TPE 4x22AWG ye UL/CSA. ITC/PLTC 1.5m

Art.No.: 7700-12221-U040150

Weight: 0.085 kg

Country of origin: US

Model designation: MSBL0-TU04_1.5

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

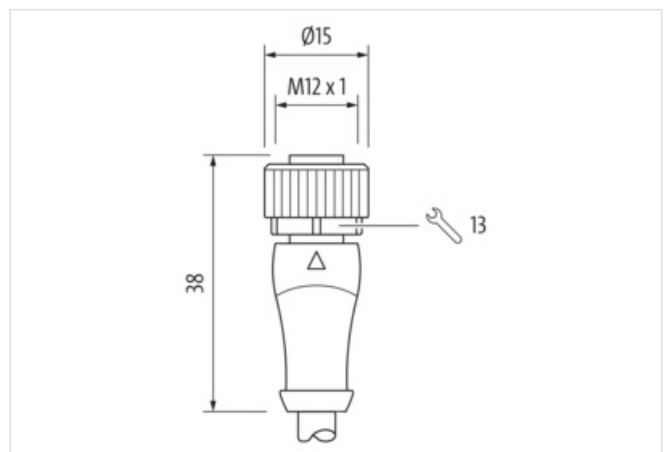
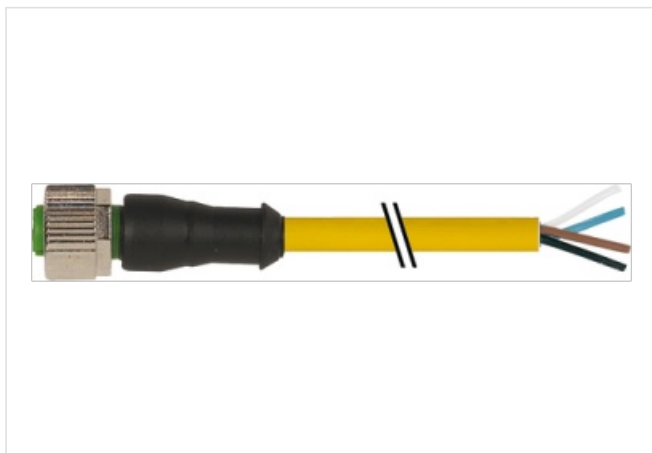
M12, 4-pole

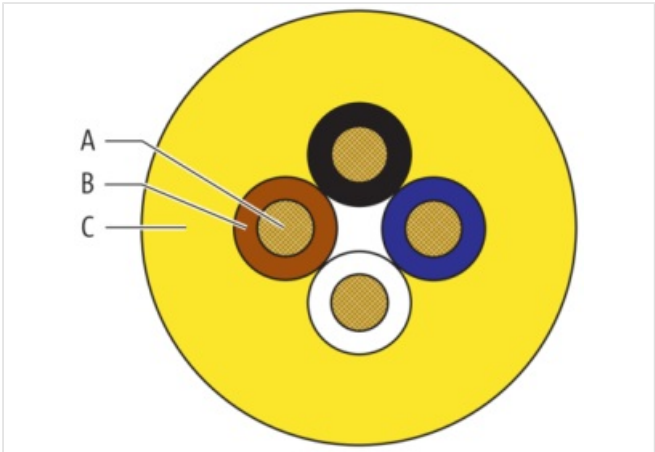
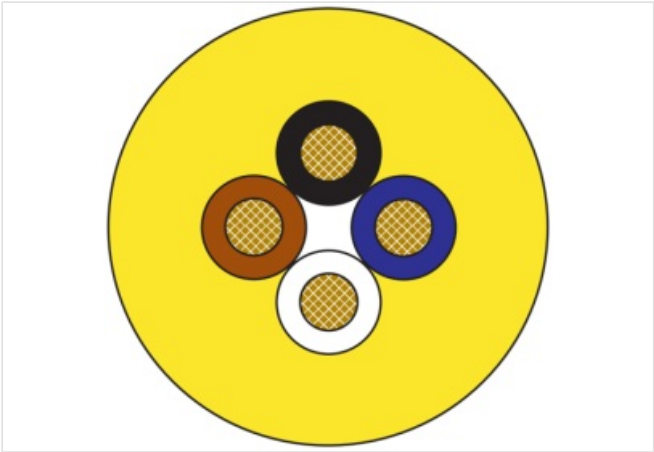
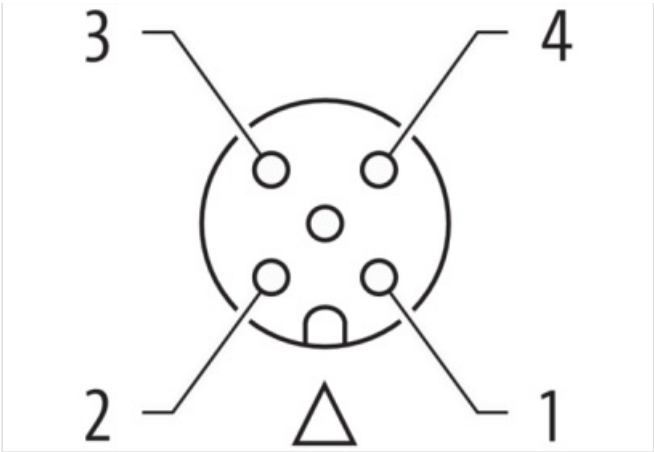
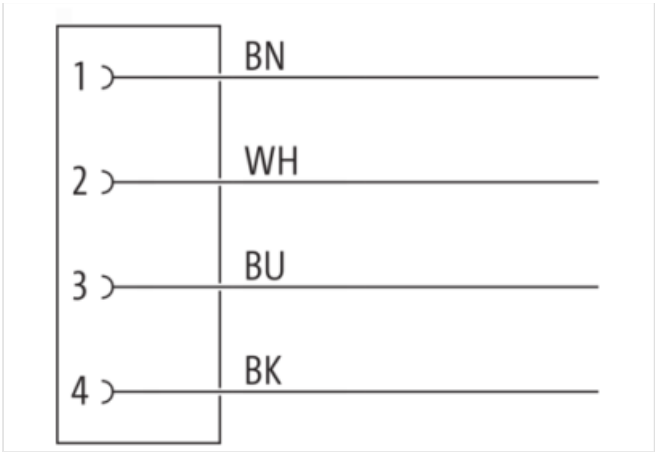
USA

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_1.5

Cable length 1,50 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-U040150
GTIN	4048879746472
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	4048879746472
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
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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
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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 \times Outer diameter

Bending radius (dynamic) 10 \times Outer diameter

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

No. of torsion cycles 3 Mio.

Torsion stress 180 °/m