

M12 male 0° A-cod. with cable

TPE 5x18AWG ye UL/CSA. ITC/PLTC 3m

Art.No.: 7700-12041-1610300

Weight: 0.271 kg

Country of origin: US

Model designation: MSAL0-U161_3.0

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:

Cable is approved for 600 V

Male straight

M12, 5-pole

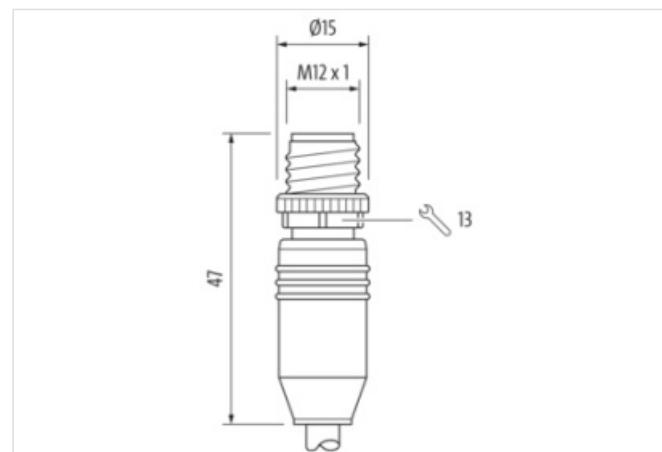
USA

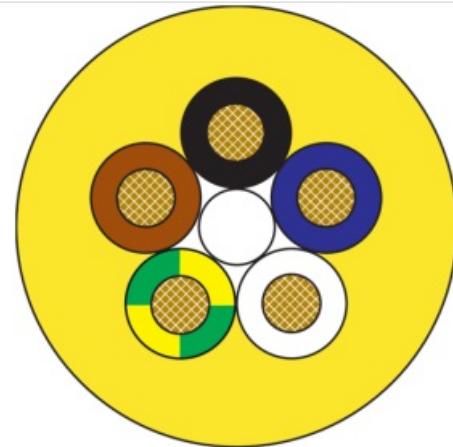
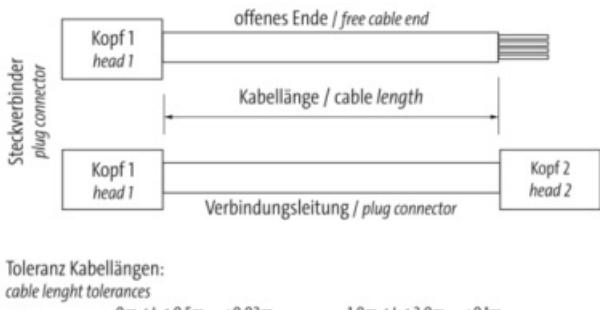
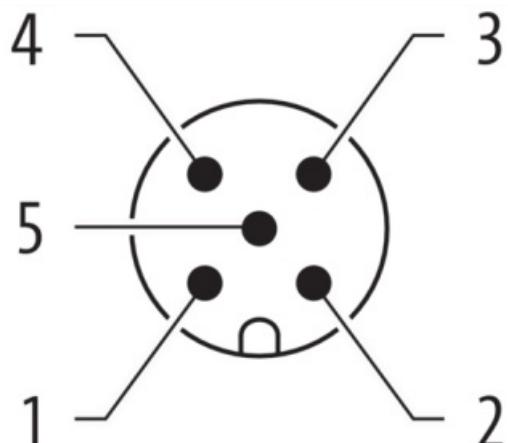
Cable is approved for 600 V

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	MSAL0-U161_3.0
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Cable length	3,00 m
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Side 1

Family construction form	M12
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No. of poles	5
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Coding	A
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Threaded hole	M12 x 1
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Tightening torque	0,6 Nm
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Width across flats	SW13
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Material contact	Copper alloy
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Coating contact	gold plated
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Degree of protection (EN IEC 60529)	IP67, IP66K, IP65
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Side 2

Family construction form	free cable end
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Commercial data

URL Webshop	https://shop.murrelektronik.com/7700-12041-1610300
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GTIN	4048879531863
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ECCLASS-6.0	27279218
ECCLASS-6.1	27279218
ECCLASS-7.0	27279218
ECCLASS-7.1	27279218
ECCLASS-8.0	27279218
ECCLASS-8.1	27279218
ECCLASS-9.0	27060311
ECCLASS-9.1	27060311
ECCLASS-10.0.1	27060311
ECCLASS-10.1	27060311
ECCLASS-11.0	27060311
ECCLASS-11.1	27060311
ECCLASS-12.0	27060311
ECCLASS-13.0	27060311
ECCLASS-14.0	27060311
ETIM-5.0	EC001855
ETIM-6.0	EC001855
ETIM-7.0	EC001855
ETIM-8.0	EC001855
customs tariff number	85444290
EAN	4048879531863
Packaging unit	1

Electrical data | Supply

Operating voltage AC max.	125 V
Operating voltage DC max.	125 V
Current operating per contact max.	4 A
Operating voltage AC (UL-listed)	30 V
Operating voltage DC (UL-listed)	30 V

Installation | Connection

Gender	male
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Device protection | Electrical

Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1,5 kV
Material group (IEC 60664-1)	I

Mechanical data | Material data

Material housing	PUR
Material screw connection	Zinc die-casting
Locking material	Zinc die-casting
Coating locking	nickel plated

Mechanical data | Mounting data

Mounting method	inserted, screwed, Shaking protection
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Environmental characteristics | Climatic

Operating temperature min.	-30 °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	161
Stranding	1 x 5 wires around core filler twisted
Banding	Fleece optional
Filler	Yes
Wire arrangement	brown, black, blue, white, green-yellow
Cable weight	94 g/m
Material wire insulation	PVC
Amount wires	5
Outer diameter insulation	1,93 mm
Outer diameter tolerance core insulation	± 0,05 mm
Ingredient freeness wire insulation	lead-free, CFC-free
Amount strands (wire)	19
Diameter of single wires	30 AWG
Conductor crosssection (wire)	18 AWG
Material conductor wire	Stranded copper wire, bare
Outer-diameter (jacket)	7,75 mm
Tolerance outer diameter (sheath)	± 5 %
Material jacket	TPE
Freedom from ingredients (jacket)	lead-free, CFC-free, halogen-free
Conductor resistance (wire)	22.5 Ω/km @ 20 °C
Nominal voltage max.	600 V
Withstand voltage (wire - wire)	4 kV @ 60 s
Withstand voltage (wire - jacket)	4 kV @ 60 s
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity max. (wire)	9 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	UL 1277 (Oil Res II)
UV resistance	UL 444 § 7.22
Other resistances	resistant to welding sparks
Bending radius (fixed)	10 x Outer diameter
Bending radius (dynamic)	15 x Outer diameter
No. of bending cycles (C-track)	10 Mio. @ 25 °C
No. of torsion cycles	3 Mio.
Torsion stress	± 180 °/m