

M12 male 0° A-cod. with cable

PUR 12x0.25 gy UL/CSA+drag ch. 1.5m

Art.No.: 7000-19001-3010150

Weight: 0,110 kg

Country of origin: CZ

Model designation: MSAL0-12E301_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:

Male straight

M12, 12-pole

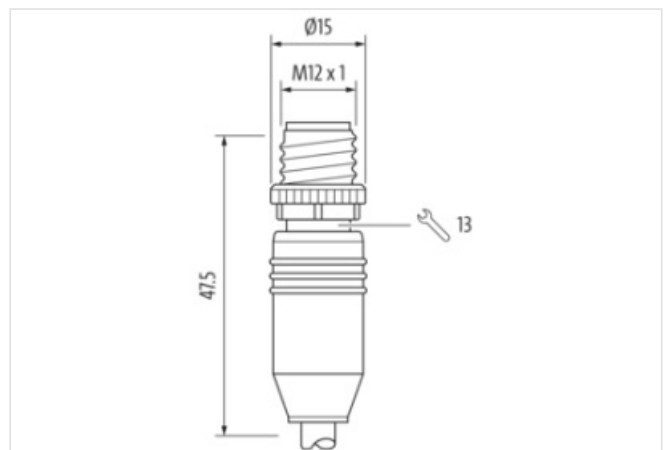
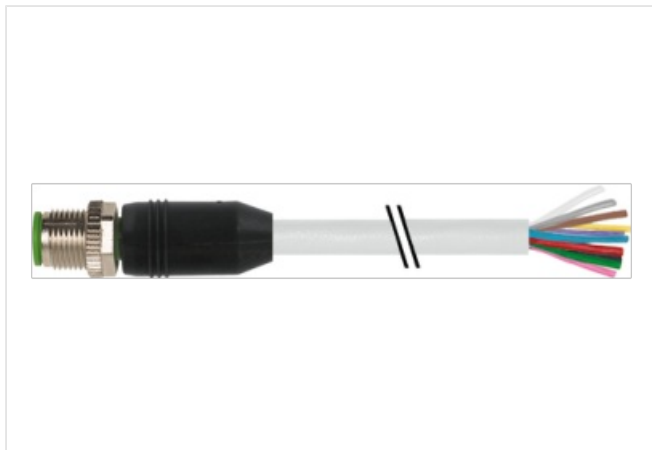
Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request

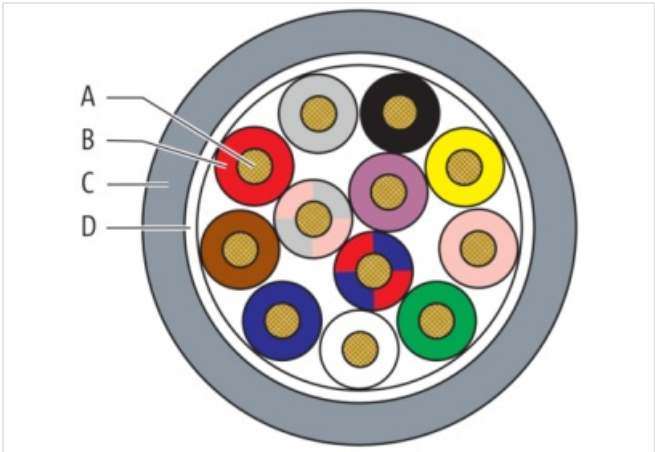
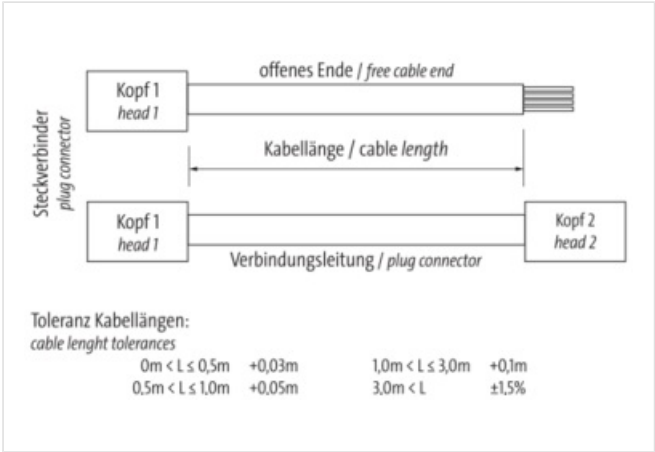
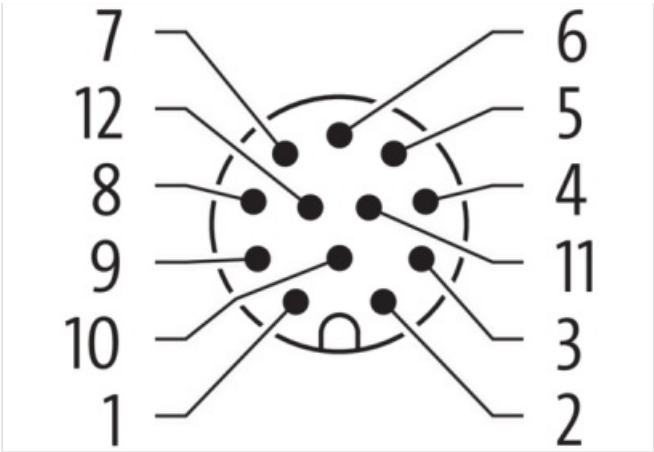
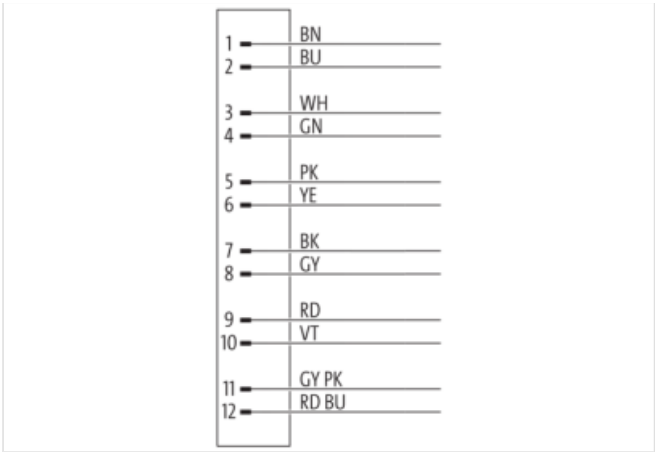
with cable sleeves

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



Cable length 1,50 m

Side 1

Family construction form M12

No. of poles	12
Coding	A
Mounting method	inserted, screwed
Threaded hole	M12 x 1
Tightening torque	0,6 Nm
Width across flats	SW13
Cable outlet	straight
Material	PUR
Material contact	Copper alloy
Coating contact	gold plated
Degree of protection (EN IEC 60529)	IP67, IP66K, IP65

Side 2

Family construction form	With open ended wires
Stripping length (jacket)	80 mm

Commercial data

URL Webshop	https://shop.murrelektronik.com/7000-19001-3010150
customs tariff number	85444290
EAN	4048879292931
Packaging unit	1

Electrical data | Supply

Operating voltage AC max.	30 V
Operating voltage DC max.	30 V
Current operating per contact max.	1,5 A
Operating voltage AC (UL-listed)	30 V
Operating voltage DC (UL-listed)	30 V

Diagnostics

Status indication LED	No
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Installation | Connection

Gender	male
Mounting set	M12 x 1

Device protection | Electrical

Degree of protection (EN IEC 60529)	IP67, IP66K, IP65
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	0,8 kV
Material group (IEC 60664-1)	I

Mechanical data

Contour for corrugated hose	without
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Mechanical data | Material data

Material screw connection	Zinc die-casting
Coating of fitting	nickel plated
Locking material	Zinc die-casting
Coating locking	Nickeled

Mechanical data | Mounting data

Mounting method	inserted, screwed, Shaking protection
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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	301
Amount stranding	1
Stranding	3 wires stranded
Amount stranding (type 2)	1
Stranding (type 2)	9 wires stranded around stranding combination
Banding	Fleece
Wire arrangement	(gray-pink, violet, red-blue), brown, red, gray, black, yellow, pink, green, white, blue
Cable weight	63 g/m
Material wire insulation	PP
Amount wires	12
Outer diameter insulation	1,25 mm
Outer diameter tolerance core insulation	± 0,05 mm
Shore hardness wire insulation	50 ± 5 Shore D
Ingredient freeness wire insulation	CFC-free, cadmium-free, silicone-free, halogen-free, lead-free
Amount strands (wire)	32
Diameter of single wires	0,1 mm
Conductor crosssection (wire)	0,25 mm²
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Outer-diameter (jacket)	7 mm
Tolerance outer diameter (sheath)	± 5 %
Material jacket	PUR
Shore hardness jacket	85 ± 5 Shore A
Freedom from ingredients (jacket)	CFC-free, cadmium-free, halogen-free, lead-free
Material property (jacket)	matte, good machinability, abrasion-resistant, low adhesion
Conductor resistance (wire)	76 Ω/km @ 20 °C
Electric capacitance	80.000 pF/km
Isolation resistance	10 MΩ × km
Nominal voltage max.	300 V
Withstand voltage (wire - wire)	1.5 kV @ 60 s
Withstand voltage (wire - jacket)	1.5 kV @ 60 s
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity max. (wire)	3 A
Operating temperature min. (static)	-40 °C
Operating temperature max. (static)	80 °C
Operating temperature min. (dynamic)	-20 °C
Operating temperature max. (dynamic)	80 °C
Operating temperature min. (drag chain)	-20 °C
Operating temperature max. (drag chain)	80 °C
Bending radius (fixed)	10 × Outer diameter
Bending radius (dynamic)	15 × Outer diameter
No. of bending cycles (C-track)	3 Mio. @ 25 °C
Traversing distance (C-track)	5 m @ 25 °C horizontal
Travel speed (C-track)	2 m/s @ 25 °C
Acceleration (C-track)	10 m/s² @ 25 °C