M12 male 0° / M12 female 0° A-cod. V4A

PUR AWG24+22 shielded vt UL/CSA+drag ch. 2m

Art.No.: 7004-40531-8030200
Weight: 0.168
Country of origin: CZ
Model designation: MSBL0-A-U803_2.0-S04

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.

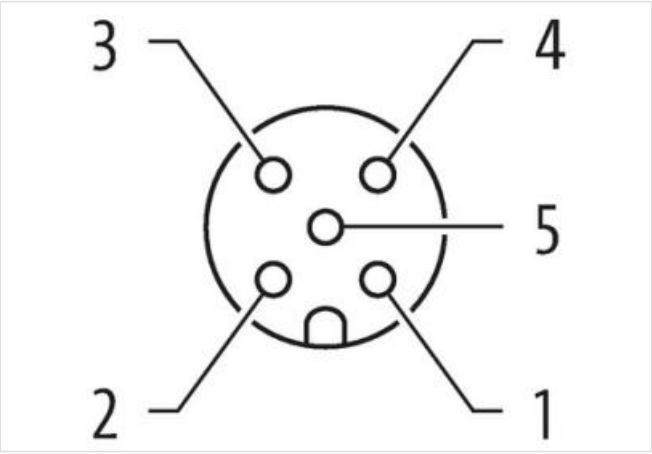
Our connectors are resistant to oils and cooling lubricants, but resistance to aggressive media should be tested for each specific application. Different cable lengths available on request

If you are missing technical information? Please feel free to use our dictionary to find more technical details.

Product details:
M12 – M12, 5-pole
Male straight – female straight
A-coded
Stainless steel 1.4404 (V4A)
Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request
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



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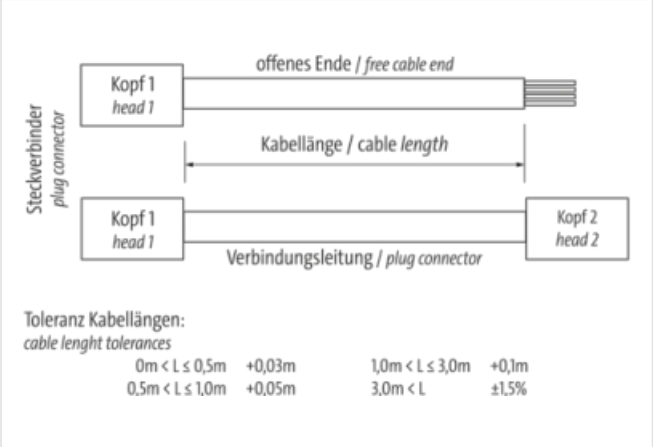

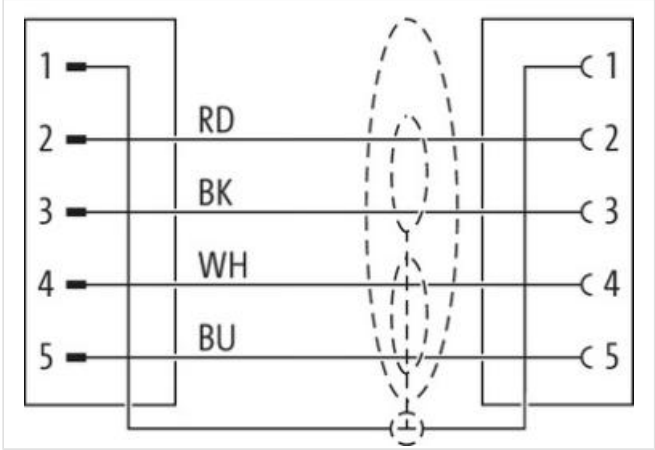

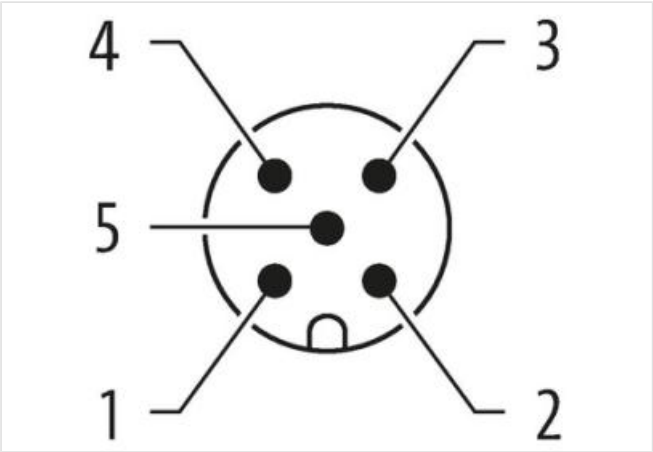

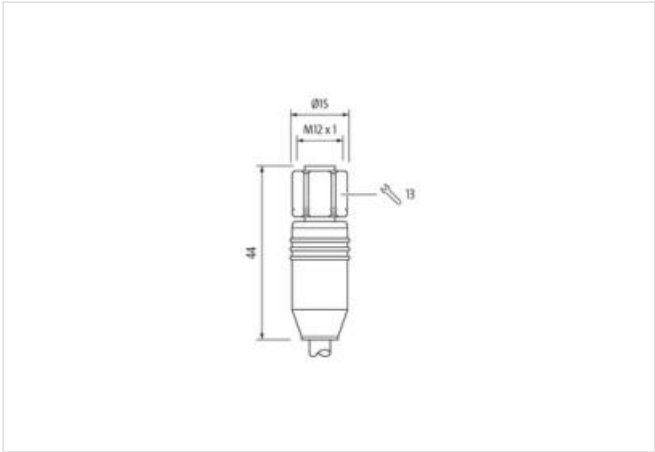

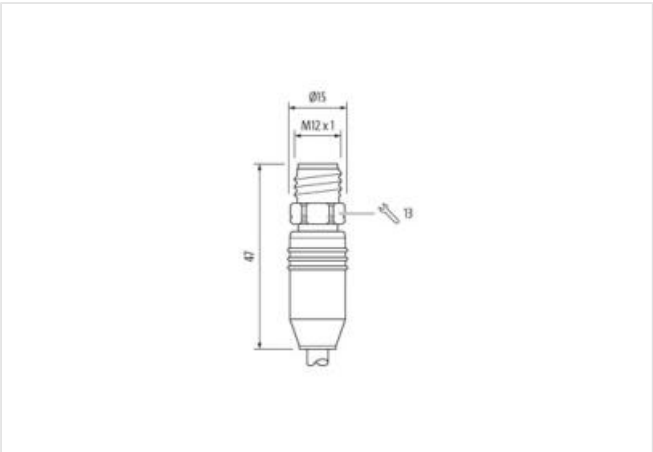

Product may differ from Image

Cable length	**2 m**
Side 1	
Tightening torque	**0,6 Nm**

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Mounting method	**inserted, screwed**
Coating contact	**gold plated**
Family construction form	**M12**
Thread	**M12 x 1**
Coding	**A**
Material contact	**Copper alloy**
No. of poles	**5**
Width across flats	**SW13**
Degree of protection (EN IEC 60529)	**IP65, IP67**
Side 2	
Tightening torque	**0,6 Nm**
Mounting method	**inserted, screwed**
Coating contact	**gold plated**
Family construction form	**M12**
Thread	**M12 x 1**
Coding	**A**
Material contact	**Copper alloy**
No. of poles	**5**
Commercial data	
ECLASS-6.0	**27279218**
ECLASS-7.0	**27279218**
ECLASS-8.0	**27279218**
ECLASS-9.0	**27060311**
ECLASS-10.1	**27060307**
ECLASS-11.1	**27060307**
ECLASS-12.0	**27060307**
ETIM-5.0	**EC001855**
customs tariff number	**85444290**
customs tariff number	**85444290**
EAN	**4048879493406**
EAN	**4048879493406**
Packaging unit	**1**
Packaging unit	**1**
Electrical data | Supply	
Operating voltage AC max.	**60 V**
Operating voltage DC max.	**60 V**
Operating voltage AC (UL-listed)	**30 V**
Operating voltage DC (UL-listed)	**30 V**
Current operating per contact max.	**4 A**
Diagnostics	
Status indication LED	**no**
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	
Contour for corrugated hose	**without**
Mechanical data | Material data	
Material housing	**PUR**
Material gasket	**FKM**

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Locking material	**Stainless steel 1.4404 (V4A)**
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	**(white, blue), (black, red)**
Cable identification	**803**
Function cable	**Hybrid, Data, Power**
Jacket Color	**violet**
Type of Certificate	**cURus**
Amount stranding	**2**
Stranding	**2 wires twisted**
Amount stranding (type 2)	**1**
Stranding (type 2)	**2 Stranded joints twisted**
Cable shielding (type)	**copper braid, tinned**
Cable shielding (coverage)	**65 %**
Banding	**Foil**
Drain wire (cross-section)	**22 AWG**
wire arrangement	**(white, blue), (black, red)**
Cable weigth	**63,12 g/m**
Material jacket	**PUR**
Freedom from ingredients (jacket)	**lead-free, CFC-free, halogen-free**
Outer-diameter (jacket)	**6,9 mm**
Tolerance outer diameter (sheath)	**± 5 %**
Drain wire (cross-section)	**22 AWG**
Material wire insulation (Data)	**PE**
Outer diameter wire insulation (Data)	**2,1 mm**
Tolerance outer diameter wire insulation (data)	**± 5 %**
Ingredient freeness wire insulation (Data)	**lead-free, CFC-free, halogen-free**
Amount wires (Data)	**2**
Amount strands wire (Data)	**19**
Diameter of single wires (Data)	**24 AWG**
Conductor crosssection wire (Data)	**24 AWG**
Material conductor wire (Data)	**copper stranded wire, tinned**
Material wire insulation (Power)	**PE**
Outer diameter wire insulation (Power)	**1,5 mm**
Tolerance outer diameter wire insulation (Power)	**±5 %**
Ingredient freeness wire insulation (Power)	**lead-free, CFC-free, halogen-free**
Amount wires (Power)	**2**
Amount strands wire (Power)	**19**
Diameter of single wires (Power)	**22 AWG**
Wire conductor cross section (Power)	**22 AWG**

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Material conductor wire (Power)	copper stranded wire, tinned
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. Wire (Data)	3 A
Current carrying capacity min. wire (Power)	6 A
Characteristic impedance	120 Ω ± 10 % @ 1 MHz
Electrical resistance coating wire (Power)	54 Ω/km @20 °C
Electrical resistance coating wire (Data)	78 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	2 kV @ 60 s
Electric capacitance	40000 pF/km
AC withstand voltage (wire - shield)	2 kV @ 60 s
Isolation resistance	5000 MΩ × km
AC withstand voltage power (wire - shield)	2 kV @ 60 s
AC withstand voltage power (wire - wire)	2 kV @ 60 s
Min. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	80 °C
Operating temperature min. (dynamic)	-30 °C
Operating temperature max. (dynamic)	70 °C
Flame resistance	UL 1581 § 1100 FT2 | IEC 60332-2-2 | UL 1581 § 1090
chemical resistance	Good, application-related testing
Gasoline resistance	Good, application-related testing
Oil resistance	DIN EN 60811-404 | Good, application-related testing
Bending radius (fixed)	6 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
No. of bending cycles (C-track)	1 Mio. @ 25 °C
Traversing distance (C-track)	5 m @ 25 °C
Travel speed (C-track)	3 m/s @ 25 °C