M12 male 0° B-cod. with cable shielded

PUR 1x2xAWG24 shielded vt UL/CSA+drag ch. 30m

Art.No.: 7000-14051-8413000
Weight: 2.128
Country of origin: CZ
Model designation: MSBAL0-F841_30.0-ZS

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.

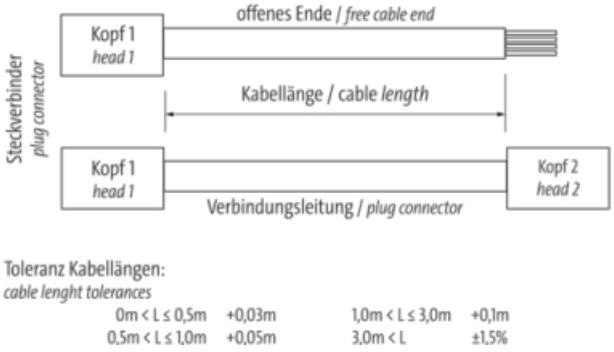
Our connectors are resistant to oils and cooling lubricants, but resistance to aggressive media should be tested for each specific application. Different cable lengths available on request

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

Product details:
PROFIBUS
Male straight
M12, 2-pole
B-coded
shielded
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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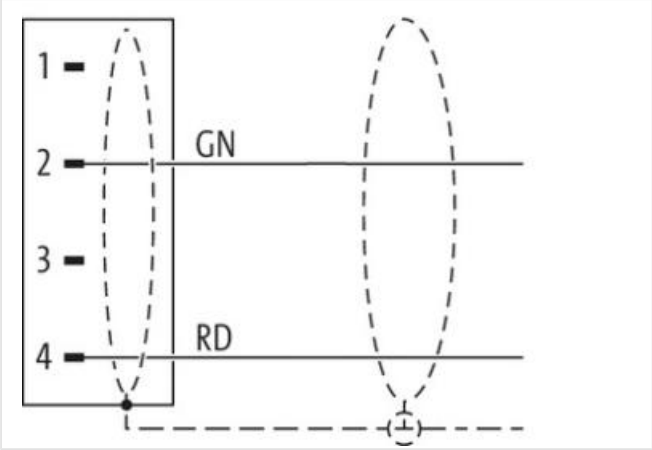

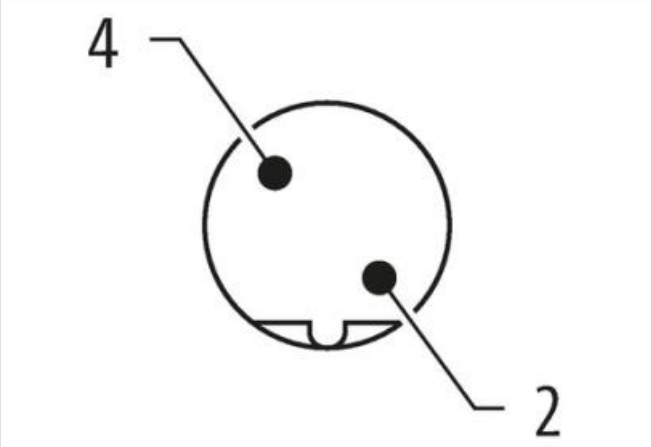

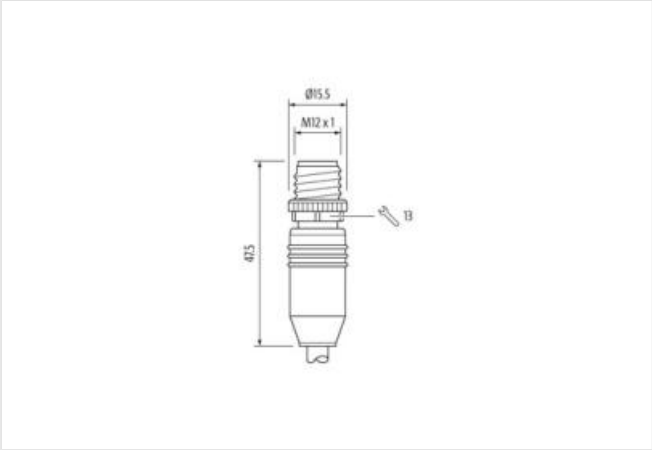

Product may differ from Image

Cable length	**30 m**
Side 1	
Tightening torque	**0,6 Nm**
Mounting method	**inserted, screwed**
Coating contact	**gold plated**
Family construction form	**M12**
Thread	**M12 x 1**
Cable outlet	**straight**
Coding	**B**
Material contact	**Copper alloy**
Material	**PUR**
No. of poles	**4**
Width across flats	**SW13**
Degree of protection (EN IEC 60529)	**IP65, IP66K, IP67**
Side 2	
Stripping length (jacket)	**20 mm**
Family construction form	**free cable end**
Commercial data	

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ECLASS-6.0	27061801
ECLASS-6.1	27060307
ECLASS-7.0	27060307
ECLASS-8.0	27060307
ECLASS-9.0	27060307
ECLASS-10.1	27060307
ECLASS-11.1	27060307
ECLASS-12.0	27060307
ETIM-5.0	EC001855
customs tariff number	85444290
customs tariff number	85444290
GTIN	4048879648660
GTIN	4048879648660
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
Installation | Connection	
Stripping length (jacket)	20 mm
Mounting set	M12 x 1
Installation | Pin assignment	
Configuration	partly used
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	
Coating locking	Nickeled
Coating of fitting	nickel plated
Locking material	Zinc die-casting
Material screw connection	Zinc die-casting
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	

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Product standard	**DIN EN 61076-2-101 (M12)**
Installation | Cable	
wire arrangement	**green, red**
Cable identification	**841**
Jacket Color	**violet**
Type of Certificate	**cURus**
Amount stranding	**1**
Stranding	**2 wires with 2 Filler twisted**
Cable shielding (type)	**copper braid, tinned**
Cable shielding (coverage)	**85 %**
Banding	**Fleece, Foil**
Filler	**yes**
wire arrangement	**green, red**
Cable weigth	**70,4 g/m**
Material jacket	**PUR**
Shore hardness jacket	**87 ± 3 Shore A**
Freedom from ingredients (jacket)	**lead-free, cadmium-free, CFC-free, halogen-free, silicone-free**
Outer-diameter (jacket)	**7,7 mm**
Tolerance outer diameter (sheath)	**± 5 %**
Material wire insulation	**cell polyethylene**
Amount wires	**2**
Outer diameter insulation	**2,55 mm**
Outer diameter tolerance core insulation	**± 5 %**
Shore hardness wire insulation	**60 ± 3 Shore D**
Ingredient freeness wire insulation	**lead-free, cadmium-free, CFC-free, halogen-free**
Amount strands (wire)	**19**
Diameter of single wires	**36 AWG**
Conductor crosssection (wire)	**24 AWG**
Material conductor wire	**Stranded copper wire, bare**
Nominal voltage AC max.	**300 V**
Current load capacity (standard)	**to DIN VDE 0298-4**
Current load capacity min. wire	**3 A**
Characteristic impedance	**150 Ω ± 10 % @ 1 MHz**
Electrical resistance line constant wire	**72,2 Ω/km @ 20 °C**
AC withstand voltage (wire - wire)	**2 kV @ 60 s**
Electric capacitance	**29000 pF/km**
Power frequency withstand voltage (wire - jacket)	**2 kV @ 60 s**
AC withstand voltage (wire - shield)	**2 kV @ 60 s**
Isolation resistance	**5000 MΩ × km**
Loop resistance	**145 Ω/km**
Min. operating temperature (static)	**-40 °C**
Max. operating temperature (fixed)	**80 °C**
Operating temperature min. (dynamic)	**-20 °C**
Operating temperature max. (dynamic)	**70 °C**
Flame resistance	**IEC 60332-2-2 | UL 1581 § 1100 FT2 | UL 1581 § 1090**
chemical resistance	**Good, application-related testing**
Gasoline resistance	**Good, application-related testing**
Oil resistance	**Good, application-related testing | DIN EN 60811-404**
Bending radius (fixed)	**7,5 x Outer diameter**
Bending radius (dynamic)	**12 x Outer diameter**
No. of bending cycles (C-track)	**5 Mio. @ 25 °C**
Traversing distance (C-track)	**5 m @ 25 °C | horizontal**
Travel speed (C-track)	**3 m/s @ 25 °C**

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