M12 male 0° / M12 female 0° B-cod. shielded

PVC 1x2xAWG24 shielded vt UL/CSA 20m

Art.No.: 7000-44001-8502000
Weight: 1.329
Country of origin: DE
Model designation: MSBBL0-BA-F850_20.0-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.

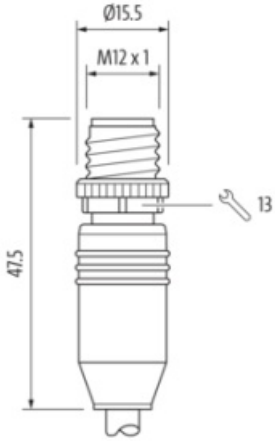
Our connectors are resistant to oils and cooling lubricants, but resistance to aggressive media should be tested for each specific application. Different cable lengths available on request

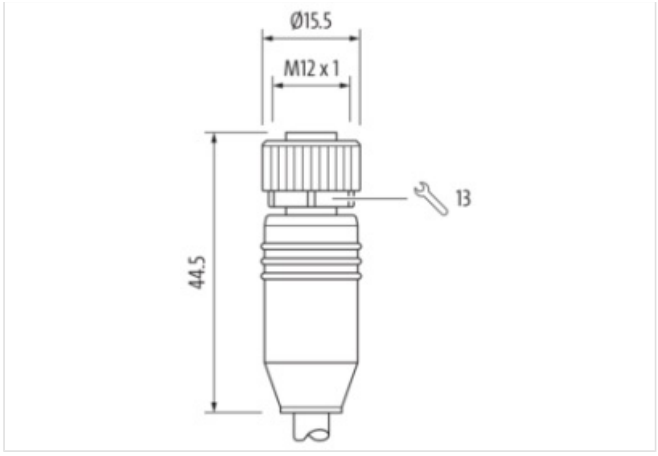
If you are missing technical information? Please feel free to use our dictionary to find more technical details.

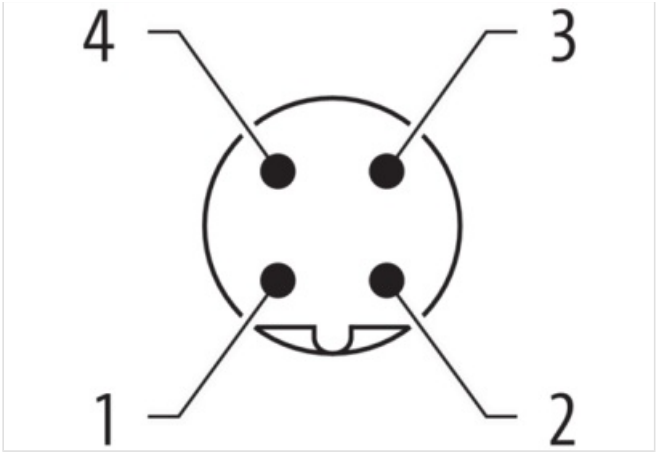
Product details:PROFIBUS
Male straight – female straight
M12, 4-pole – M12, 2-pole
B-coded
shielded
Plastic housings with good resistance against chemicals and oils.
The resistance to aggressive media should be individually tested for your application. Further details on request.
Further cable lengths on request.

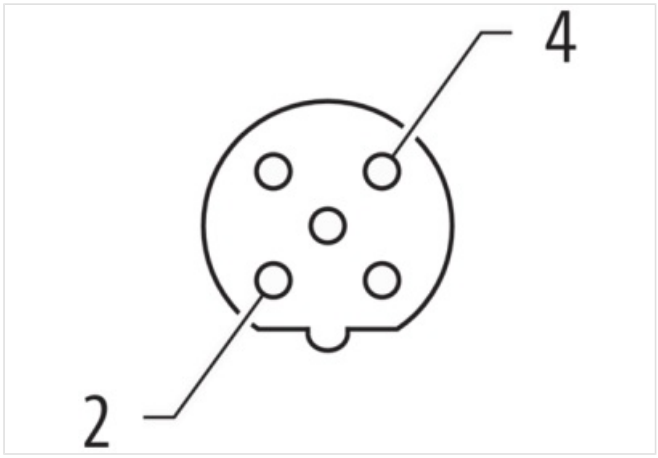
Link to Product

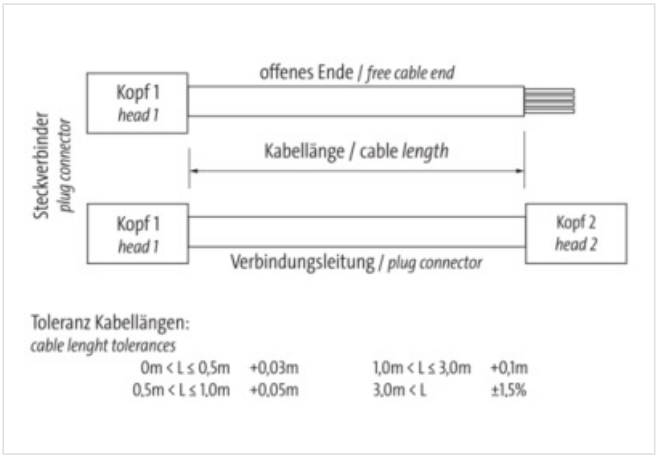
Illustration

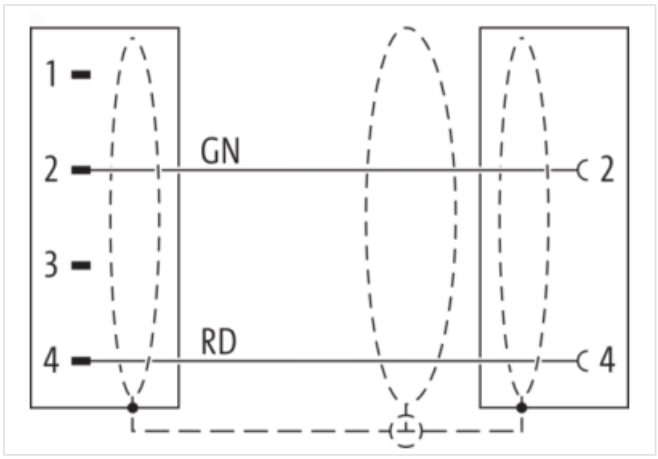












Product may differ from Image

Header	
Cable length	**20.0 m**
Side 1	

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Family construction form	**M12**
No. of poles	**2**
Coding	**B**
Gender	**male**
Mounting method	**inserted, screwed**
Thread	**M12 x 1**
Tightening torque	**0.6 Nm**
Width across flats	**SW13**
Cable outlet	**straight**
Material	**PUR**
Degree of protection (EN IEC 60529)	**IP67, IP66K, IP65**
Side 2	
Family construction form	**M12**
No. of poles	**2**
Coding	**B**
Gender	**female**
Mounting method	**inserted, screwed**
Thread	**M12 x 1**
Tightening torque	**0.6 Nm**
Width across flats	**SW13**
Cable outlet	**straight**
Material	**PUR**
Degree of protection (EN IEC 60529)	**IP67, IP66K, IP65**
Commercial data	
URL Webshop	**https://shop.murrelektronik.com/7000-44001-8502000**
customs tariff number	**85444290**
EAN	**4048879582704**
Packaging unit	**1**
Electrical data | Supply	
Operating voltage AC max.	**60 V**
Operating voltage DC max.	**60 V**
Current operating per contact max.	**4 A**
Operating voltage AC (UL-listed)	**30 V**
Operating voltage DC (UL-listed)	**30 V**
Diagnostics	
Status indication LED	**no**
Device protection | Electrical	
Degree of protection (EN IEC 60529)	**IP67, IP68, IP66K, IP65**
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	
Locking material	**Zinc die-casting**
Coating locking	**Nickeled**
Mechanical data | Mounting data	
Mounting method	**inserted, screwed, Shaking protection**
Environmental characteristics | Climatic	

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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	DIN EN 61076-2-101 (M12)
Installation | Cable	
Amount stranding	1
Stranding	Wires
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	70 %
Banding	Fleece, Foil
Filler	yes
Wire arrangement	red, green
Cable weigth	75.9 g/m
Material wire insulation	PE
Amount wires	2
Outer diameter insulation	2.55 mm
Outer diameter tolerance core insulation	± 0.1 mm
Ingredient freeness wire insulation	CFC-free, halogen-free, lead-free
Amount strands (wire)	19
Diameter of single wires	36 AWG
Conductor crosssection (wire)	24 AWG
Material conductor wire	Stranded copper wire, bare
Outer-diameter (jacket)	7.8 mm
Tolerance outer diameter (sheath)	± 5 %
Material jacket	PVC
Freedom from ingredients (jacket)	CFC-free, lead-free
Conductor resistance (wire)	78 Ω/km @ 20 °C
Electric capacitance	30,000 pF/km
Isolation resistance	1,000 MΩ × km
Nominal voltage AC max.	30 V
Withstand voltage (wire - wire)	1.5 kV @ 60 s
Withstand voltage (wire - jacket)	1.5 kV @ 60 s
Withstand voltage (wire - shield)	1.5 kV @ 60 s
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	3 A
Characteristic impedance	150 Ω 15 MHz
Min. operating temperature (static)	-25 °C
Max. operating temperature (fixed)	70 °C
Operating temperature min. (dynamic)	-20 °C
Operating temperature max. (dynamic)	60 °C
Operating temperature min. (drag chain)	-20 °C
Operating temperature max. (drag chain)	50 °C
Bending radius (fixed)	7.5 × Outer diameter
Bending radius (dynamic)	12 × Outer diameter
No. of bending cycles (C-track)	2 Mio. @ 25 °C
Traversing distance (C-track)	5 m @ 25 °C
Travel speed (C-track)	3 m/s @ 25 °C
Acceleration (C-track)	5 m/s² @ 25 °C

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