

## 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

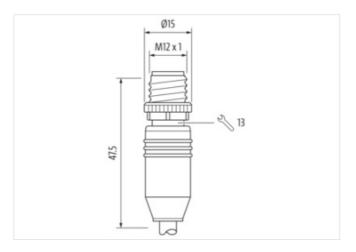
Plastic housings with good resistance against chemicals and oils.

The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

#### **Link to Product**

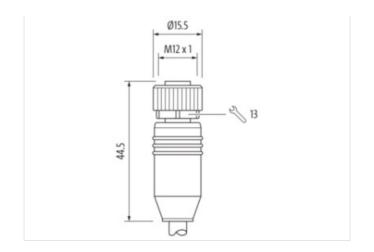
# Illustration

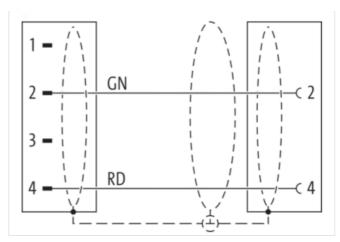


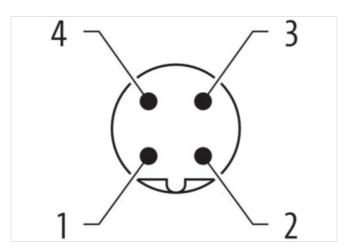


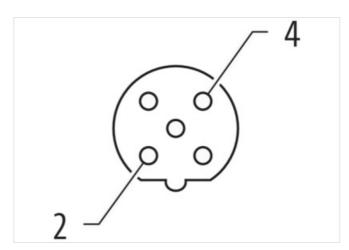


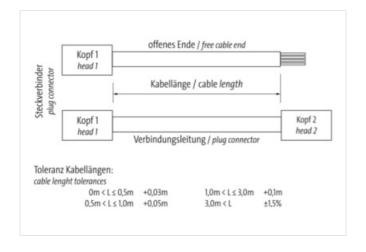
stay connected

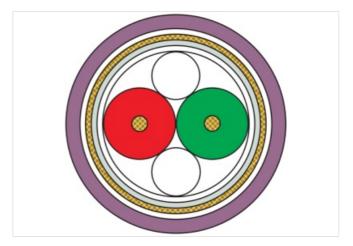






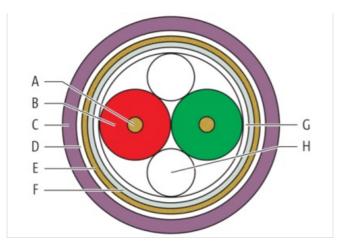








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Product may differ from Image















Header	
Cable length	20,00 m
Side 1	
Family construction form	M12
No. of poles	2
Coding	В
Gender	male
Mounting method	inserted, screwed
Threaded hole	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	В
Gender	female
Mounting method	inserted, screwed
Threaded hole	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

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2025-11-26



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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
· · · · · · · · · · · · · · · · · · ·	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)	1
Mechanical data	
Contour for corrugated hose	without
Mechanical data   Material data	
·	Zing dia casting
Locking material  Coating locking	Zinc die-casting Nickeled
Coating locking	
Mechanical data   Mounting data	
Mounting method	inserted, screwed, Shaking protection
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
Note on strain relief	endangered by excessive bending forces.  Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
	Frotect the connectors by suitable measures from mechanical loads, e.g. by the disage of cable fles.
Conformity	
Product standard	EN IEC 61076-2-101 (M12)
Installation   Cable	
Cable identification	
-	850
Amount stranding	850 1
Amount stranding	1
Amount stranding Stranding	1 Wires
Amount stranding Stranding Cable shielding (type) Cable shielding (coverage)	1 Wires copper braid, tinned
Amount stranding Stranding Cable shielding (type) Cable shielding (coverage) Banding	1 Wires copper braid, tinned 70 %
Amount stranding Stranding Cable shielding (type) Cable shielding (coverage) Banding Filler Cable weigth	1 Wires copper braid, tinned 70 % Fleece, Foil yes 69 g/m
Amount stranding Stranding Cable shielding (type) Cable shielding (coverage) Banding Filler	1 Wires copper braid, tinned 70 % Fleece, Foil yes 69 g/m PE
Amount stranding Stranding Cable shielding (type) Cable shielding (coverage) Banding Filler Cable weigth Material wire insulation Amount wires	1 Wires copper braid, tinned 70 % Fleece, Foil yes 69 g/m PE
Amount stranding Stranding Cable shielding (type) Cable shielding (coverage) Banding Filler Cable weigth Material wire insulation Amount wires Outer diameter insulation	1 Wires copper braid, tinned 70 % Fleece, Foil yes 69 g/m PE 2 2.55 mm
Amount stranding Stranding Cable shielding (type) Cable shielding (coverage) Banding Filler Cable weigth Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation	1 Wires copper braid, tinned 70 % Fleece, Foil yes 69 g/m PE 2 2.55 mm ± 0.1 mm
Amount stranding Stranding Cable shielding (type) Cable shielding (coverage) Banding Filler Cable weigth Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation Ingredient freeness wire insulation	Wires copper braid, tinned 70 % Fleece, Foil yes 69 g/m PE 2 2.55 mm ± 0.1 mm CFC-free, halogen-free, lead-free
Amount stranding Stranding Cable shielding (type) Cable shielding (coverage) Banding Filler Cable weigth Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation Ingredient freeness wire insulation Amount strands (wire)	1 Wires copper braid, tinned 70 % Fleece, Foil yes 69 g/m PE 2 2.55 mm ± 0.1 mm CFC-free, halogen-free, lead-free
Amount stranding Stranding Cable shielding (type) Cable shielding (coverage) Banding Filler Cable weigth Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation Ingredient freeness wire insulation Amount strands (wire) Diameter of single wires	1 Wires copper braid, tinned 70 % Fleece, Foil yes 69 g/m PE 2 2.55 mm ± 0.1 mm CFC-free, halogen-free, lead-free 19 36 AWG
Amount stranding Stranding Cable shielding (type) Cable shielding (coverage) Banding Filler Cable weigth Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation Ingredient freeness wire insulation Amount strands (wire) Diameter of single wires Conductor crosssection (wire)	Wires copper braid, tinned 70 % Fleece, Foil yes 69 g/m PE 2 2.55 mm ± 0.1 mm CFC-free, halogen-free, lead-free 19 36 AWG 24 AWG
Amount stranding Stranding Cable shielding (type) Cable shielding (coverage) Banding Filler Cable weigth Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation Ingredient freeness wire insulation Amount strands (wire) Diameter of single wires Conductor crosssection (wire) Material conductor wire	Wires copper braid, tinned 70 % Fleece, Foil yes 69 g/m PE 2 2.55 mm ± 0.1 mm CFC-free, halogen-free, lead-free 19 36 AWG 24 AWG Stranded copper wire, bare
Amount stranding Stranding Cable shielding (type) Cable shielding (coverage) Banding Filler Cable weigth Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation Ingredient freeness wire insulation Amount strands (wire) Diameter of single wires Conductor crosssection (wire) Material conductor wire Outer-diameter (jacket)	Wires copper braid, tinned 70 % Fleece, Foil yes 69 g/m PE 2 2.55 mm ± 0.1 mm CFC-free, halogen-free, lead-free 19 36 AWG 24 AWG Stranded copper wire, bare 7.8 mm
Amount stranding Stranding Cable shielding (type) Cable shielding (coverage) Banding Filler Cable weigth Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation Ingredient freeness wire insulation Amount strands (wire) Diameter of single wires Conductor crosssection (wire) Material conductor wire	Wires copper braid, tinned 70 % Fleece, Foil yes 69 g/m PE 2 2.55 mm ± 0.1 mm CFC-free, halogen-free, lead-free 19 36 AWG 24 AWG Stranded copper wire, bare

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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 (static)	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