

## M12 male 0° B-cod. with cable shielded

PUR 1x2xAWG23 shielded vt UL/CSA+robot 5m

Art.No.: 7000-14051-8430500 Weight: 0.383 Country of origin: CZ Model designation: MSBAL0-F843 5.0-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.

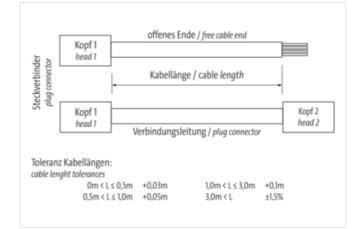
**Product details:** PROFIBUS Male straight M12, 2-pole **B-coded** shielded Plastic housings with good resistance against chemicals and oils. The resistance to aggressive media should be individually tested for your application. Further details on request.

Further cable lengths on request.

## Link to Product

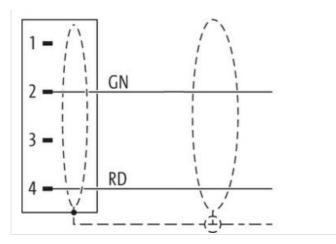
## Illustration

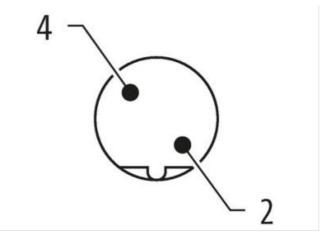


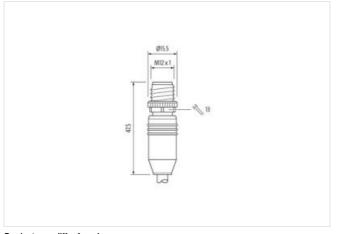


The information in this Product-PDF has been compiled with the utmost care Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2025-05-13









Product may differ from Image



Cable length	5 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	В
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-4.1     27060307       ECASS-7.0     27060307       ECLASS-4.0     27060307       ECLASS-4.0     27060307       ECLASS-1.1     27060307       ECLASS-1.1     27060307       ECLASS-1.1     27060307       ECLASS-1.1     27060307       ECLASS-1.1     27060307       ETM-5.0     EC001655       ETM-5.0     EC001655       ETM-7.0     EC001656       ETM-7.0     EC001656       ETM-8.0     EC001656       ETM-8.0     EC001656       ETM-7.0     EC001656       ETM-8.0     EC001656       ETM-8.0     EC00160       Operating voltage AC max.     60 V       Operating voltage AC max.     60 V       Operating voltage AC (LU-Lited)     39 V	ECLASS-6.0	27061801		
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Rated surge voltage       1,5 kV         Material group (IEC 60664-1)       I         Mechanical data       I         Contour for corrugated hose       without         Mechanical data   Material data       Image: Coating locking         Coating locking       Nickeled         Coating of fitting       nickel plated         Locking material       Zinc die-casting         Material screw connection       Zinc die-casting         Mechanical data   Mounting data       Image: Screwed, Shaking protection         Environmental characteristics   Climatic       Operating temperature max.         Operating temperature max.       85 °C         Additional condition temperature range       depending on cable quality	Additional condition protection degree	inserted, screwed		
Material group (IEC 60664-1)       I         Mechanical data       Vickeled         Contour for corrugated hose       without         Mechanical data   Material data       Vickeled         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         Mounting method       inserted, screwed, Shaking protection         Environmental characteristics   Climatic       Operating temperature min.         Operating temperature max.       85 °C         Additional condition temperature range       depending on cable quality	Pollution Degree	3		
Mechanical data       without         Contour for corrugated hose       without         Mechanical data   Material data       Image: Coating locking       Nickeled         Coating locking       Nickeled       Image: Coating of fitting       Image: Coating of fitting         Coating of fitting       nickel plated       Image: Coating of fitting       Image: Coating of fitting         Locking material       Zinc die-casting       Image: Coating of fitting       Image: Coating of fitting         Material screw connection       Zinc die-casting       Image: Coating of fitting       Image: Coating of fitting         Mechanical data   Mounting data       Image: Coating of fitting       Image: Coating of fitting       Image: Coating         Mounting method       Image: Coating temperature min.       -25 °C       Operating temperature min.       -25 °C         Operating temperature min.       -25 °C       Operating temperature max.       85 °C         Additional condition temperature range       depending on cable quality       Image: Coating temperature range       Image: Coating temperature range	Rated surge voltage	1,5 kV		
Contour for corrugated hosewithoutMechanical data   Material dataCoating lockingNickeledCoating of fittingnickel platedLocking materialZinc die-castingMaterial screw connectionZinc die-castingMechanical data   Mounting dataInserted, screwed, Shaking protectionEnvironmental characteristics   ClimaticOperating temperature min25 °COperating temperature max.85 °CAdditional condition temperature rangedepending on cable quality	Material group (IEC 60664-1)	1		
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         Mounting method       inserted, screwed, Shaking protection         Environmental characteristics   Climatic       Operating temperature min.         -25 °C       Operating temperature max.         Additional condition temperature range       depending on cable quality	Mechanical data			
Coating lockingNickeledCoating of fittingnickel platedLocking materialZinc die-castingMaterial screw connectionZinc die-castingMechanical data   Mounting datainserted, screwed, Shaking protectionMounting methodinserted, screwed, Shaking protectionEnvironmental characteristics   Climatic-25 °COperating temperature min25 °COperating temperature max.85 °CAdditional condition temperature rangedepending on cable quality	Contour for corrugated hose	without		
Coating of fitting       nickel plated         Locking material       Zinc die-casting         Material screw connection       Zinc die-casting         Mechanical data   Mounting data       inserted, screwed, Shaking protection         Mounting method       inserted, screwed, Shaking protection         Environmental characteristics   Climatic       Operating temperature min.         -25 °C       Operating temperature max.         85 °C       Additional condition temperature range	Mechanical data   Material data			
Locking materialZinc die-castingMaterial screw connectionZinc die-castingMechanical data   Mounting datainserted, screwed, Shaking protectionMounting methodinserted, screwed, Shaking protectionEnvironmental characteristics   ClimaticOperating temperature min25 °COperating temperature max.85 °CAdditional condition temperature rangedepending on cable quality	Coating locking	Nickeled		
Material screw connection       Zinc die-casting         Mechanical data   Mounting data       Mounting method       inserted, screwed, Shaking protection         Environmental characteristics   Climatic       C         Operating temperature min.       -25 °C         Operating temperature max.       85 °C         Additional condition temperature range       depending on cable quality	Coating of fitting	nickel plated		
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	Locking material	Zinc die-casting		
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	Material screw connection	Zinc die-casting		
Environmental characteristics   Climatic         Operating temperature min.       -25 °C         Operating temperature max.       85 °C         Additional condition temperature range       depending on cable quality	Mechanical data   Mounting data			
Operating temperature min.       -25 °C         Operating temperature max.       85 °C         Additional condition temperature range       depending on cable quality	Mounting method	inserted, screwed, Shaking protection		
Operating temperature max.     85 °C       Additional condition temperature range     depending on cable quality	Environmental characteristics   Climatic			
Additional condition temperature range depending on cable quality	Operating temperature min.	-25 °C		
	Operating temperature max.	85 °C		
Important installation notes	Additional condition temperature range	depending on cable quality		
	Important installation notes	Important installation notes		

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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	rod groop
Cable identification	red, green 843
Function cable	Data
Jacket Color	
	violet
Type of Certificate	cURus
Amount stranding	
Stranding	2 wires with 2 Filler twisted
Cable shielding (type)	copper braid, tinned
Cable shielding (coverage)	80 %
Banding	Fleece, Foil
Filler	yes
wire arrangement	red, green
Cable weigth	79,2 g/m
Material jacket	PUR
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Outer-diameter (jacket)	8,1 mm
Colerance outer diameter (sheath)	±5%
Material wire insulation	PP
Amount wires	2
Duter diameter insulation	2,6 mm
Duter diameter tolerance core insulation	±5%
ngredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free
Amount strands (wire)	19
Diameter of single wires	34 AWG
Conductor crosssection (wire)	22 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	6 A
Characteristic impedance	150 Ω ± 10 % @ 1 MHz
Electrical resistance line constant wire	59,4 Ω/km
AC withstand voltage (wire - wire)	1,5 kV @ 60 s
Electrical capacity line constant (wire - wire	e) 30000 pF/km
Power frequency withstand voltage (wire - acket)	1,5 kV @ 60 s
AC withstand voltage (wire - shield)	1,5 kV @ 60 s
solation resistance	5000 MΩ × km
Min. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	80 °C
Dperating temperature min. (dynamic)	-30 °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
Dil resistance	Good, application-related testing   DIN EN 60811-404
	8 x Outer diameter
Bending radius (fixed) Bending radius (dynamic)	12 x Outer diameter

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**Torsion stress** 

± 180 °/m

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