

#### M8 male 90° / M12 female 0° A-cod.

PVC 3x0.25 gy UL/CSA 1m

Art.No.: 7000-88301-2100100

Weight: 0.044 Country of origin: CZ

Model designation: MSBL0-I-R210\_1.0

### 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:**

Male 90° - female straight

M8 - M12, 3-pole

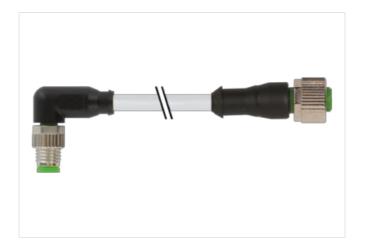
Further cable lengths on request.

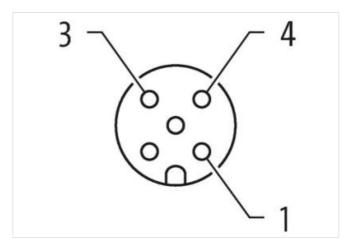
Plastic housings with good resistance against chemicals and oils.

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

# **Link to Product**

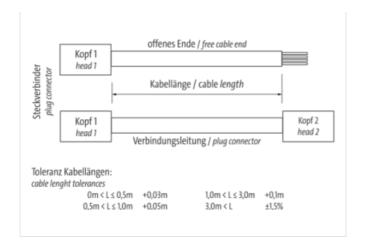
## Illustration

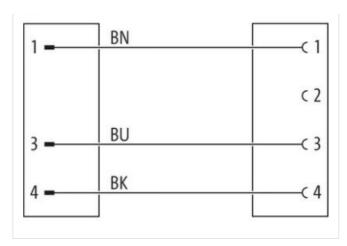


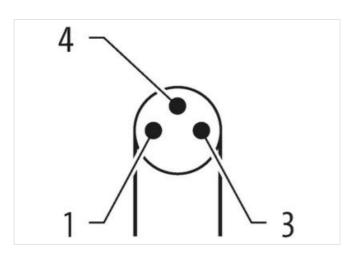


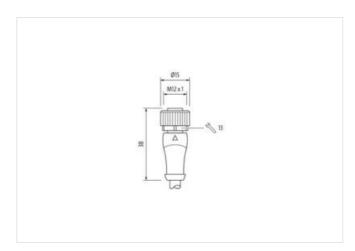


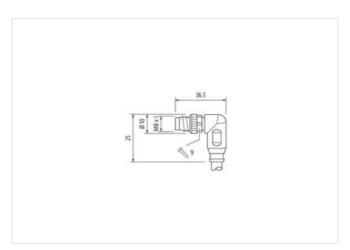
stay connected











Product may differ from Image











Cable length

1 m

Side 1

0,4 Nm Tightening torque



stay connected

Family construction form	Mounting method	inserted, screwed
Tread	Family construction form	M8
Garder	Thread	M8 x 1
Garder	suitable for corrugated tube (internal Ø)	6,5 mm
Coding         A           Material contact         Copper alloy           No. of poles         3           Width across flats         SW9           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Side 2         PP5, IP66K, IP67           Cender         Female           suitable for corrugated table (internal O)         10 mm           Cable outlet         straight           Coding         A           Material contact         Copper alloy           No. of poles         3           Witch across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Commercial date         SW113           ECLASS 6.0         227279218           ECLASS 7.0         227279218           ECLASS 8.0         22728218           ECLASS 8.0.1         22728218 <th< td=""><td></td><td>male</td></th<>		male
Coding         A           Material contact         Copper alloy           No. of poises         3           Width across flats         SW9           Degree of protection (EN IEC 80529)         IP95, IP66K, IP67           Side 2           Tightening broque         0,6 Nm           Mounting method         inserted, screwed           Family construction form         M12           Thread         M12 x 1           Gender         female           suitable for corrugated tube (internal 0)         10 mm           Cable outlet         straight           Coding         A           Material contact         Copper alloy           No. of poles         3           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Commercial date         Commercial date           ECLASS-6.0         227279218           ECLASS-7.0         22729218           ECLASS-8.0.1         27060311           ECLASS-9.0         27060311           ECLASS-9.0         27060311           ECLASS-9.0         27060311           ECLASS-9.0         27060311           ECLAS	Cable outlet	angled
Material contact	Coding	<del>-</del>
No. of poles 3 Width across flats 9 Wigth across flats 9 Width across fl	•	
Width across flats         SW9           Degrace of protection (EN IEC 60529)         IP65, IP66K, IP67           Side 2         P85, IP66K, IP67           Tightening forque         0,6 Nm           Mounting method         inserted, serveed           Family construction form         M12           Thread         M12 x 1           Gender         female           subtable for corrupated tube (internal Ø)         10 mm           Cabie outlet         straight           Coding         A           Autorial contact         Copper alloy           No. of poles         3           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Commercial data         ECLASS-10           ECLASS-8.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         277908311           ECLASS-9.0         277060311           ECLASS-9.0         27060311           ECLASS-11.1         27060311           ETIM-5.0         ECO01865           sustoms tariff number         85444290           customs tariff number         85444290           EAN         4048879121590 <td></td> <td></td>		
Operace of protection (EN IEC 60529)         IP65, IP66K, IP67           Side 2           Tightening torque         0,6 Nm           Mounting method         inserted, screwed           Family construction form         M12           Thread         M12 x 1           Gender         female           suitable for corrupated tube (internal 0)         10 mm           Cable outlet         straight           Coding         A           Material contact         Copper alloy           No. of poles         3           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Commercial data         Commercial data           ECLASS-0         27279218           ECLASS-10         227279218           ECLASS-10         227279218           ECLASS-10.1         27060311           ECLASS-10.1         27060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ETIM-5.0         E001855           customs tariff number         85444290           customs tariff number         85444290           EAN <td></td> <td></td>		
Side 2           Tightening torque         0.6 Nm           Mounting method         inserted, screwed           Family construction form         M12           Thread         M12 x 1           Gender         female           suitable for corrupated tube (internal 2)         10 mm           Cable outlet         straight           Coding         A           Material contact         Copper alloy           No. of poles         3           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Commercial data         ECLASS-0.0           ECLASS-0.1         27279218           ECLASS-0.0         27279218           ECLASS-0.1         27060311           ECLASS-1.1         27060311           ECLASS-1.2         27060311           ECLASS-1.1         27060311           ECLASS-1.1         27060311           ECLASS-1.2         27060311           ECLASS-1.3         27060311           ECLASS-1.1         27060311           ECLASS-1.2.0         27079218           EAN         4048679121590           Packaging unit         1 <th< td=""><td></td><td></td></th<>		
Tightening torque         0,6 Mm           Mounting method         inserted, screwed           Family construction form         M12           Tread         M12 x 1           Gender         female           suitable for corrugated tube (internal Ø)         10 mm           Cabilo outlet         straight           Coding         A           Material contact         Copper alloy           No. of poles         3           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, P66K, IP67           Commercial data         F0           ECLASS-8.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ETIM-5.0         ECO01885           EAN         4048879121590           EAN         4048879121590           EAN         4048879121590           EAN         4048879121590		
Mounting method         inserted, screwed           Family construction form         M12           Throad         M12 x 1           Gender         female           suitable for corrugated tube (internal Ø)         10 mm           Cable outlet         straight           Coding         A           Material contact         Copper alloy           No. of poles         3           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Commercial data         CCLASS-6.0           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-11.2         27060311           ETIM-5.0         EC001855           customs tariff number         85442290           customs tariff number         85442290           customs tariff number         85442290           custom tariff number         85442290           EAN         4048879121590           Packaging unit         1           Electrical data   Supply           Operating voltage		
Family construction form         M12 x 1           Gender         female           suitable for corrugated tube (internal Ø)         10 mm           Cable outlet         straight           Coding         A           Material contact         Copper alloy           No. of poles         3           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-7.0         27279218           ECLASS-9.0         27060311           ECLASS-1.1         27060311           ECLASS-1.0.1         27060311           ECLASS-1.2.0         27060311           ECLASS-1.2.0         ECONISTS           customs tariff number         85444290           customs tariff number         85444290           customs tariff number         4048879121590           EAN         4048879121590           EAN         4048879121590           Packaging unit         1           Electrical data [Supply           Operating voltage AC max.         50 V           Operating voltage DC max.		•
M12 x 1		
Gender         female           suitable for corrugated tube (internal Ø)         10 mm           Cable cuttet         straight           Coding         A           Material contact         Copper alloy           No. of poles         3           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-7.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECLASS-11.1         27060311           ECLASS-12.0         E001855           customs tariff number         8544290           customs tariff number         8544290           EAN         4048879121990           EAN         4048879121990           EAN         4048879121990           Packaging unit         1           Electrical data   Supply           Operating voltage DC max.         60 V           Current operating per contact max.         4 A		
suitable for corrugated tube (internal Ø)         10 mm           Cable outlet         straight           Coding         A           Material contact         Copper alloy           No. of poles         3           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27660311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           customs tariff number         85444290           customs tariff number         8544290           customs tariff number         8544290           EAN         4048879121590           EAN         4048879121590           EAN         4048879121590           Packaging unit         1           Packaging voltage DC max.         60 V           Current operating voltage DC max. <td></td> <td></td>		
Cable outlet         straight           Coding         A           Material contact         Copper alloy           No. of poles         3           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Commercial data           ECL ASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ECLASS-12.0         85444290           customs tariff number         85444290           customs tariff number         85444290           EAN         4048879121590           Packaging unit         1           Packaging unit         1           Packaging voltage AC max         50 V           Operating voltage AC max         60 V           Current operating per contact max.         4 A           Device protection   Electrical         Elegree of protection   Electrical		
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Material contact         Copper alloy           No. of poles         3           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           customs tariff number         85444290           customs tariff number         85444290           EAN         4048879121590           EAN         4048879121590           Packaging unit         1           Packaging unit         1           Packaging voltage AC max.         50 V           Operating voltage AC max.         60 V           Current operating per contact max.         4 A           Degree of protection   EIN IEC 60529)         IP65, IP67, IP68, IP66K           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage		
No. of poles   3   3     Width across flats   SW13     Degree of protection (EN IEC 60529)   IP65, IP66K, IP67     Commercial data     ECLASS-6.0   27279218     ECLASS-7.0   27279218     ECLASS-8.0   27279218     ECLASS-9.0   27060311     ECLASS-10.1   27060311     ECLASS-10.1   27060311     ECLASS-11.1   27060311     ECLASS-12.0   27060311     ETIM-5.0   ECO11855     customs tariff number   85444290     customs tariff number   85444290     customs tariff number   85444290     EAN   4048879121590     EAN   4048879121590     EAN   4048879121590     EAN   4048879121590     EAN   4048879121590     EAN   50   V		
Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Commercial data         ECLASS-6.0         27279218           ECLASS-7.0         27279218         ECLASS-7.0         ECLASS-9.0           ECLASS-9.0         27060311         ECLASS-9.0         ECDASS-9.0         ECLASS-9.0		Copper alloy
Degree of protection (EN IEC 60529)   IP65, IP66K, IP67	No. of poles	3
Commercial data		SW13
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ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ETIM-5.0         ECO01855           customs tariff number         85444290           customs tariff number         85444290           EAN         4048879121590           EAN         4048879121590           Packaging unit         1           Packaging unit         1           Pectrical data   Supply           Operating voltage AC max.         50 V           Operating voltage DC max.         60 V           Current operating per contact max.         4 A           Diagnostics           Status indication LED         no           Device protection   Electrical           Degree of protection (EN IEC 60529)         IP65, IP67, IP68, IP66K           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         1,5 KV	ECLASS-6.0	27279218
ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ETIM-5.0         ECO01855           customs tariff number         85444290           customs tariff number         85444290           EAN         4048879121590           EAN         4048879121590           Packaging unit         1           Packaging unit         1           Pectrical data   Supply           Operating voltage AC max.         50 V           Operating voltage DC max.         60 V           Current operating per contact max.         4 A           Diagnostics           Status indication LED         no           Device protection   Electrical           Degree of protection (EN IEC 60529)         IP65, IP67, IP68, IP66K           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         1,5 KV	ECLASS-7.0	27279218
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Packaging unit  Packaging unit  1  Packaging unit  1  Electrical data   Supply  Operating voltage AC max.  50 V  Operating voltage DC max.  60 V  Current operating per contact max.  4 A  Diagnostics  Status indication LED  no  Device protection   Electrical  Degree of protection (EN IEC 60529)  Additional condition protection degree  inserted, screwed  Pollution Degree  3  Rated surge voltage  1,5 kV		
Packaging unit  Electrical data   Supply  Operating voltage AC max. 50 V  Operating voltage DC max. 60 V  Current operating per contact max. 4 A  Diagnostics  Status indication LED no  Device protection   Electrical  Degree of protection (EN IEC 60529) IP65, IP67, IP68, IP66K  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 1,5 kV		
Degree of protection (EN IEC 60529)  Degree of protection voltage reduction degree  Rated surge voltage  1,5 kV		
Operating voltage AC max. 50 V Operating voltage DC max. 60 V Current operating per contact max. 4 A  Diagnostics Status indication LED no  Device protection   Electrical  Degree of protection (EN IEC 60529) IP65, IP67, IP68, IP66K  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 1,5 kV		
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Status indication LED no  Device protection   Electrical  Degree of protection (EN IEC 60529) IP65, IP67, IP68, IP66K  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 1,5 kV	Current operating per contact max.	4 A
Device protection   Electrical  Degree of protection (EN IEC 60529) IP65, IP67, IP68, IP66K  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 1,5 kV	Diagnostics	
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Degree of protection (EN IEC 60529)  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 1,5 kV	Device protection   Electrical	
Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 1,5 kV		IP65, IP67, IP68, IP66K
Pollution Degree 3 Rated surge voltage 1,5 kV		
Rated surge voltage 1,5 kV		
Mechanical data   Material data		.,v
	Mechanical data   Material data	

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: 2025-11-07



stay connected

Material housing	PUR
Coating locking	Nickeled
Locking material	Zinc die-casting
Mechanical data   Mounting data	
, ,	incerted coround Chaking protection
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 strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Note on bending radius	<b>Attention:</b> 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), DIN EN 61076-2-104 (M8)
Installation   Cable	
·	have bladeble
vire arrangement	brown, black, blue
Cable identification	210
Cable Type	1
Jacket Color	gray
Type of Certificate	cURus
Amount stranding	
Stranding	3 wires twisted
vire arrangement	brown, black, blue
Cable weigth	29,37 g/m
Material jacket	PVC
Shore hardness jacket	85 ± 5 Shore A
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, silicone-free
Outer-diameter (jacket)	4,5 mm
Folerance outer diameter (sheath)	±5%
Material wire insulation	PVC
Amount wires	3
Outer diameter insulation	1,25 mm
Outer diameter tolerance core insulation	±5%
Shore hardness wire insulation	45 ± 5 Shore D
Material properties wire insulation	good machinability
ngredient freeness wire insulation	lead-free, cadmium-free, CFC-free, silicone-free
Amount strands (wire)	14
Diameter of single wires	0,15 mm
Conductor crosssection (wire)	0,25 mm²
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	Strand class 5
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	4,5 A
Electrical resistance line constant wire	79 Ω/km @ 20 °C
AC withstand voltage (wire - wire)  Power frequency withstand voltage (wire -	2 kV @ 60 s 2 kV @ 60 s
acket)	
acket)  Min. operating temperature (static)	-30 °C
Min. operating temperature (static)	-30 °C 80 °C
<u> </u>	-30 °C 80 °C -5 °C

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: 2025-11-07



Flame resistance	UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2
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)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter