

M8 male 0° / M12 female 90° A-cod.

PVC 3x0.25 gy UL/CSA 3.5m

Art.No.: 7000-88261-2100350

Weight: 0.111

Country of origin: DE

Model designation: MSDL0-H-R210_3.5

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 straight – female 90°

M8 – M12, 3-pole

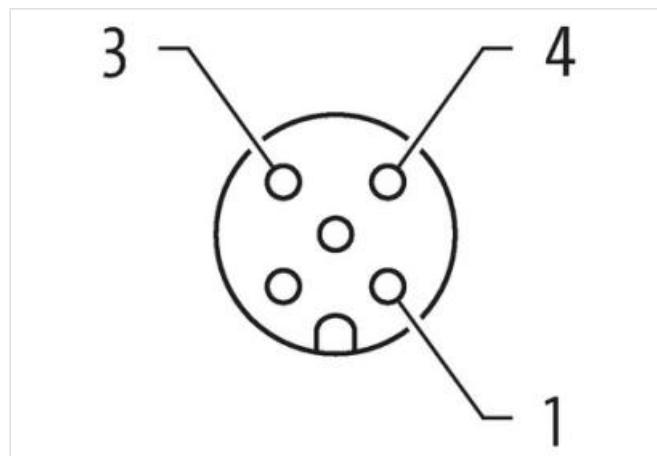
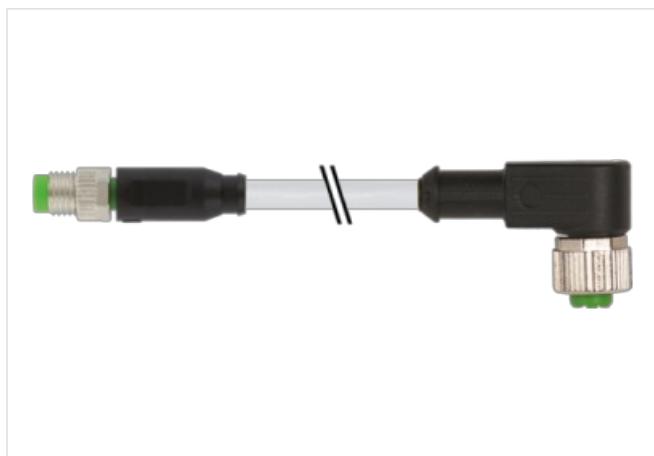
M12, A-coded

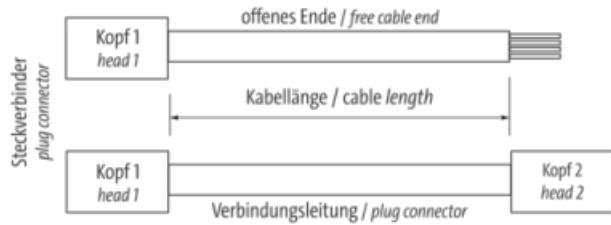
Art-No. 7005 - M12/M8 Lite - (plastic hexagonal screw) on request

Further cable lengths on request.

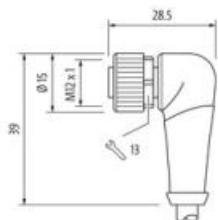
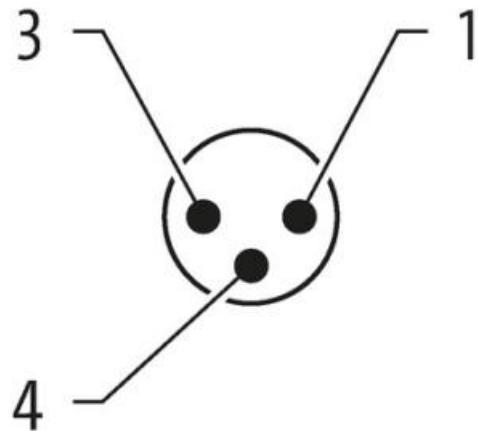
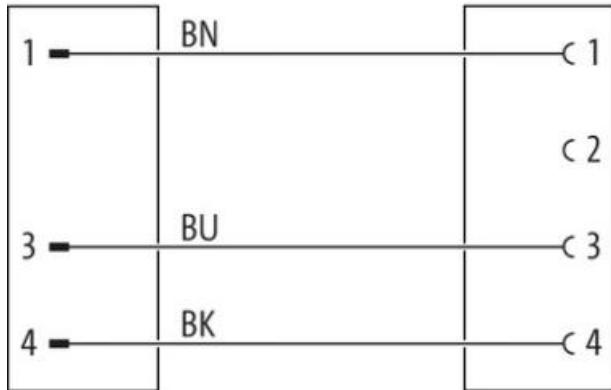
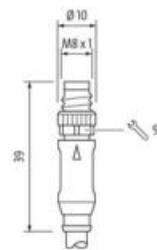
Plastic housings with good resistance against chemicals and oils.

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

[Link to Product](#)
Illustration



**Toleranz Kabellängen:
cable length tolerances**

0m < L ≤ 0,5m	+0,03m	1,0m < L ≤ 3,0m	+0,1m
0,5m < L ≤ 1,0m	+0,05m	3,0m < L	±1,5%



Product may differ from Image



Cable length

3,5 m

Side 1

Tightening torque

0,4 Nm

Mounting method	inserted, screwed
Coating contact	gold plated
Family construction form	M8
Thread	M8 x 1
suitable for corrugated tube (internal Ø)	6,5 mm
Coding	A
Material contact	Copper alloy
No. of poles	3
Width across flats	SW9

Side 2

Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Coating contact	gold plated
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal Ø)	10 mm
Coding	A
Material contact	Copper alloy
No. of poles	3
Width across flats	SW13

Commercial data

ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ECLASS-12.0	27060311
ETIM-5.0	EC001855
customs tariff number	85444290
customs tariff number	85444290
EAN	4048879123075
EAN	4048879123075
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)	IP65, IP67, IP68, IP66K
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	1,5 kV
Material group (IEC 60664-1)	I

Mechanical data | Material data

Material housing	PUR
Coating locking	Nickelized
Material gasket	FKM

Locking material	Zinc die-casting
------------------	------------------

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 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), DIN EN 61076-2-114 (M8)
------------------	---

Installation | Cable

wire arrangement	brown, black, blue
------------------	--------------------

Cable identification	210
----------------------	-----

Cable Type	1
------------	---

Jacket Color	gray
--------------	------

Type of Certificate	cURus
---------------------	-------

Amount stranding	1
------------------	---

Stranding	3 wires twisted
-----------	-----------------

wire arrangement	brown, black, blue
------------------	--------------------

Cable weight	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
-------------------------	--------

Tolerance 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
-------------------------------------	--------------------

Ingredient 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 mm ²
-------------------------------	----------------------

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)	2 kV @ 60 s
------------------------------------	-------------

Power frequency withstand voltage (wire - jacket)	2 kV @ 60 s
---	-------------

Min. operating temperature (static)	-30 °C
-------------------------------------	--------

Max. operating temperature (fixed)	80 °C
------------------------------------	-------

Operating temperature min. (dynamic)	-5 °C
--------------------------------------	-------

Operating temperature max. (dynamic)	80 °C
--------------------------------------	-------

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