M12 MALE 0° / M8 FEMALE 90° LED

PUR 3X0.34 GRAY, UL/CSA, drag ch 1m

Art.No.: 7999-40641-2330100
Weight: 0.046
Country of origin: DE
Model designation: MSGL1-A-R233_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.

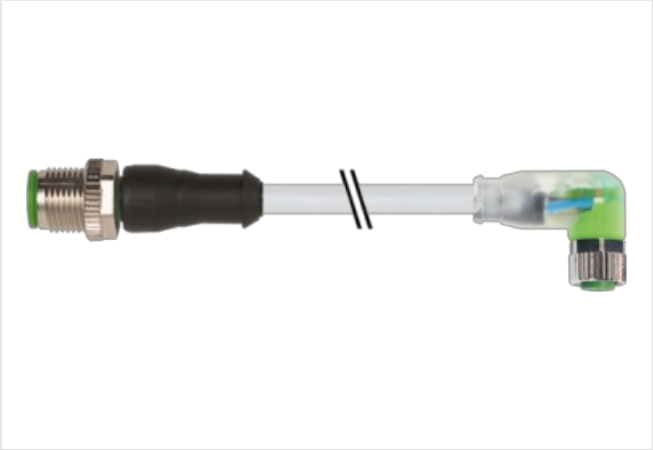
Our connectors are resistant to oils and cooling lubricants, but resistance to aggressive media should be tested for each specific application. Different cable lengths available on request

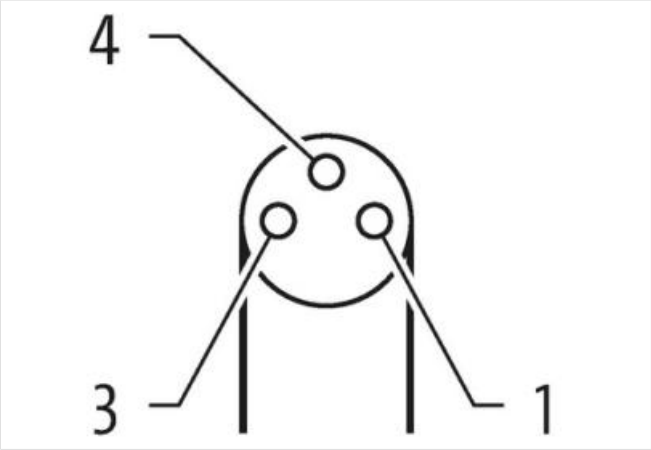
If you are missing technical information? Please feel free to use our dictionary to find more technical details.

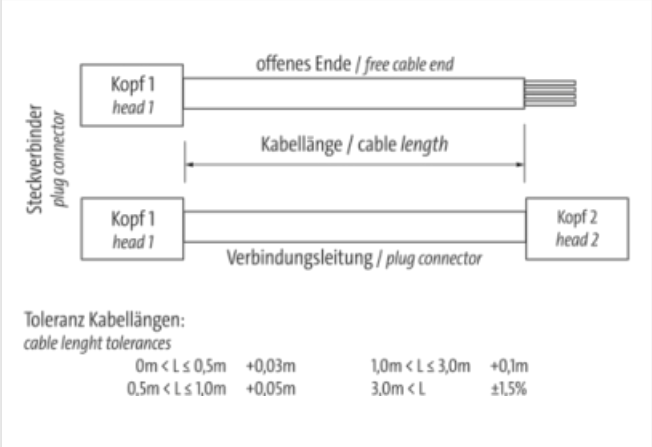
Product details:
Male straight – female 90°
M12 – M8, 3-pole
2× LED (PNP), (NPN) on request
Plastic housings with good resistance against chemicals and oils.
The resistance to aggressive media should be individually tested for your application. Further details on request.
Further cable lengths on request.

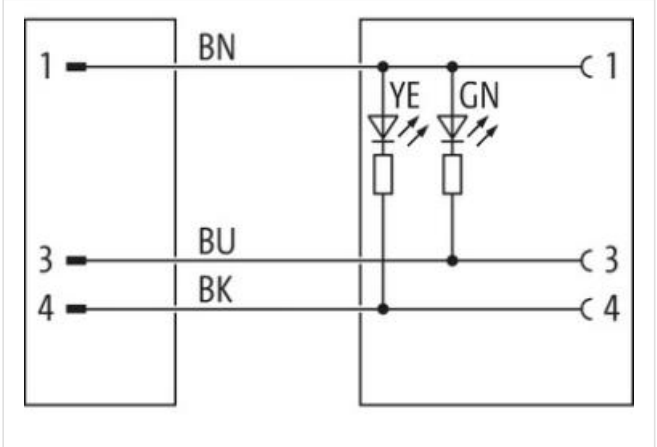
Link to Product

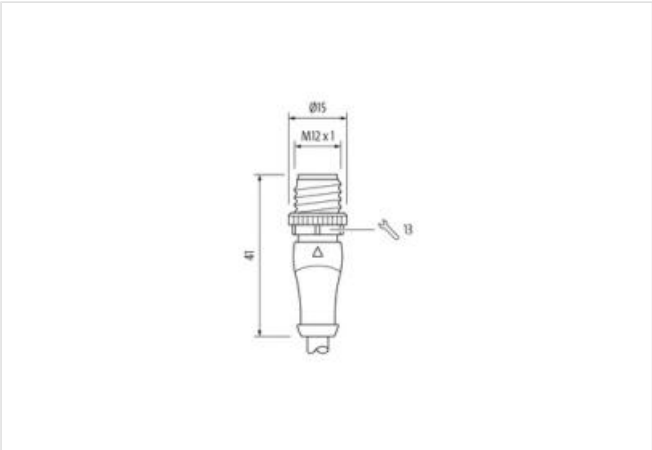
Illustration

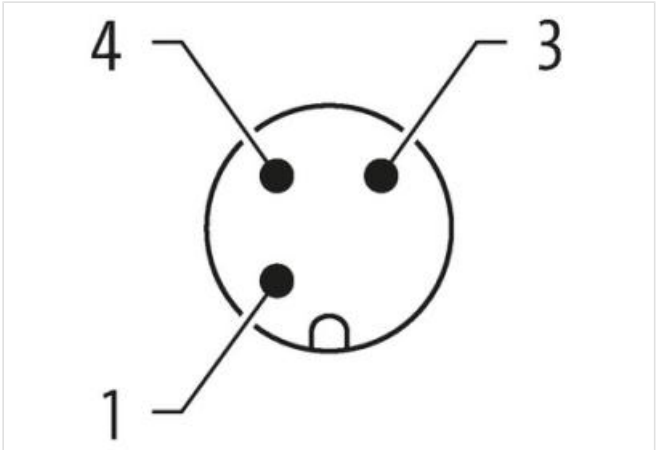


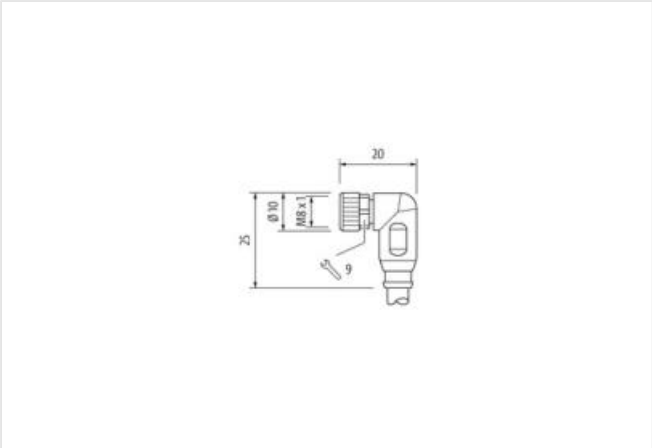












Product may differ from Image

Cable length	**1 m**
Side 1	
Tightening torque	**0,6 Nm**

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stay connected

Mounting method	**inserted, screwed**
Family construction form	**M12**
Thread	**M12 x 1**
suitable for corrugated tube (internal Ø)	**10 mm**
Gender	**male**
Cable outlet	**straight**
Coding	**A**
No. of poles	**3**
Width across flats	**SW13**
Degree of protection (EN IEC 60529)	**IP67**
Side 2	
Tightening torque	**0,4 Nm**
Mounting method	**inserted, screwed**
Family construction form	**M8**
Thread	**M8 x 1**
Gender	**female**
suitable for corrugated tube (internal Ø)	**6,5 mm**
Cable outlet	**angled**
Coding	**A**
No. of poles	**3**
Width across flats	**SW9**
Degree of protection (EN IEC 60529)	**IP67**
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**
ETIM-6.0	**EC001855**
ETIM-7.0	**EC001855**
ETIM-8.0	**EC001855**
customs tariff number	**85444290**
customs tariff number	**85444290**
GTIN	**4048879083775**
GTIN	**4048879083775**
Packaging unit	**1**
Packaging unit	**1**
Electrical data | Supply	
Operating voltage DC	**24 V**
Operating voltage DC min.	**18 V**
Operating voltage DC max.	**30 V**
Current operating per contact max.	**4 A**
Diagnostics	
Status indication LED	**green, yellow**
Device protection | Electrical	
Additional condition protection degree	**inserted, screwed**
Pollution Degree	**3**
Material group (IEC 60664-1)	**I**

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Mechanical data | Material data	
Coating locking	Nickeled
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 61076-2-104 (M8)
Installation | Cable	
wire arrangement	brown, black, blue
Cable identification	233
Cable Type	3
Jacket Color	gray
Type of Certificate	cURus
Amount stranding	1
Stranding	3 wires twisted
wire arrangement	brown, black, blue
Cable weigth	29,7 g/m
Material jacket	PUR
Shore hardness jacket	90 ± 5 Shore A
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Outer-diameter (jacket)	4,1 mm
Tolerance outer diameter (sheath)	± 5 %
Material wire insulation	PP
Amount wires	3
Outer diameter insulation	1,25 mm
Outer diameter tolerance core insulation	± 5 %
Shore hardness wire insulation	70 ± 5 Shore D
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Amount strands (wire)	42
Diameter of single wires	0,1 mm
Conductor crosssection (wire)	0,34 mm²
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	6 A
Electrical resistance line constant wire	57 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	2,5 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	2,5 kV @ 60 s
Min. operating temperature (static)	-40 °C
Max. operating temperature (fixed)	80 °C / 90 °C @ 10000 h Operation
Operating temperature min. (dynamic)	-25 °C
Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
Flame resistance	UL 1581 § 1090 | IEC 60332-2-2 | UL 1581 § 1100 FT2

chemical resistance	**Good, application-related testing**
Gasoline resistance	**Good, application-related testing**
Oil resistance	**Good, application-related testing | DIN EN 60811-404**
Bending radius (fixed)	**5 x Outer diameter**
Bending radius (dynamic)	**10 x Outer diameter**
No. of bending cycles (C-track)	**10 Mio. @ 25 °C**
Traversing distance (C-track)	**10 m @ 25 °C | horizontal**
Travel speed (C-track)	**3 m/s @ 25 °C**
No. of torsion cycles	**2 Mio.**
Torsion stress	**± 180 °/m**
Torsion speed	**35 cycles/min**

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