

M12 female 90° A-cod. with cable LED

PUR 3x0.34 gy UL/CSA+drag ch. 3m

Art.No.: 7000-12381-2330300

Weight: 0.106 Country of origin: DE

Model designation: MSDL1-R233 3.0

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:

Female 90°

M12, 3-pole

2× LED (PNP)

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

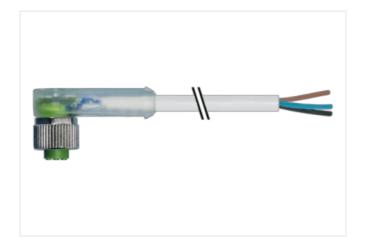
Plastic housings with good resistance against chemicals and oils.

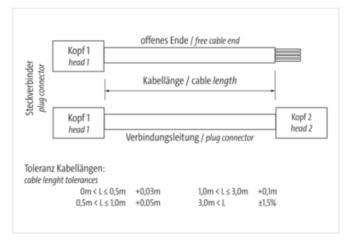
The resistance to aggressive media should be individually tested for your application. Further details on request.

Further cable lengths on request.

Link to Product

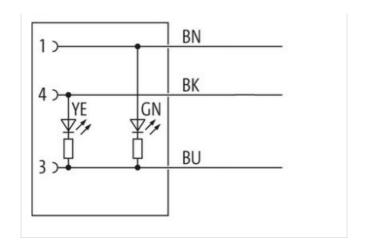
Illustration

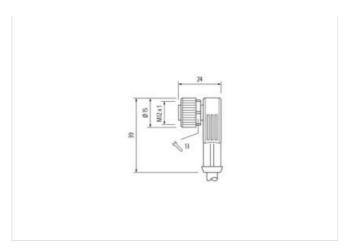


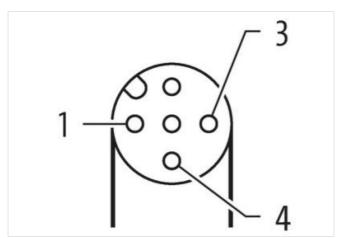




stay connected







Product may differ from Image











Cable length	3 m
Side 1	
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
Cable outlet	angled
Coding	A
Material contact	Copper alloy
Material	PUR
No. of poles	3
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

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: 2025-08-05



Commercial data	
ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-7.0	27279218
ECLASS-7.0	27279218
ECLASS-9.0	27060311
ECLASS-9.0 ECLASS-10.1	27060311
ECLASS-10.1	27060311
ECLASS-11.1	27060311
ETIM-5.0	EC001855
ETIM-5.0	EC001855
ETIM-6.0	EC001855
ETIM-7.0	EC001855
customs tariff number	85444290
customs tariff number EAN	85444290
	4048879204781
Postoning unit	4048879204781
Packaging unit	1
Packaging unit	
Electrical data Supply	
Operating voltage DC	24 V
Operating voltage DC min.	18 V
Operating voltage DC max.	30 V
Operating voltage DC max. (UL-listed)	30 V
Current operating per contact max.	4 A
Diagnostics	
Status indication LED	green, yellow
Status indication LED Installation Connection	green, yellow
	green, yellow 20 mm
Installation Connection	
Installation Connection Stripping length (jacket)	20 mm
Installation Connection Stripping length (jacket) Mounting set Gender	20 mm M12 x 1
Installation Connection Stripping length (jacket) Mounting set Gender Device protection Electrical	20 mm M12 x 1 female
Installation Connection Stripping length (jacket) Mounting set Gender Device protection Electrical Degree of protection (EN IEC 60529)	20 mm M12 x 1 female IP65, IP67, IP66K
Installation Connection Stripping length (jacket) Mounting set Gender Device protection Electrical Degree of protection (EN IEC 60529) Additional condition protection degree	20 mm M12 x 1 female IP65, IP67, IP66K inserted, screwed
Installation Connection Stripping length (jacket) Mounting set Gender Device protection Electrical Degree of protection (EN IEC 60529) Additional condition protection degree Pollution Degree	20 mm M12 x 1 female IP65, IP67, IP66K inserted, screwed 3
Installation Connection Stripping length (jacket) Mounting set Gender Device protection Electrical Degree of protection (EN IEC 60529) Additional condition protection degree Pollution Degree Rated surge voltage	20 mm M12 x 1 female IP65, IP67, IP66K inserted, screwed
Installation Connection Stripping length (jacket) Mounting set Gender Device protection Electrical Degree of protection (EN IEC 60529) Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1)	20 mm M12 x 1 female IP65, IP67, IP66K inserted, screwed 3 0,8 kV
Installation Connection Stripping length (jacket) Mounting set Gender Device protection Electrical Degree of protection (EN IEC 60529) Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data	20 mm M12 x 1 female IP65, IP67, IP66K inserted, screwed 3 0,8 kV I
Installation Connection Stripping length (jacket) Mounting set Gender Device protection Electrical Degree of protection (EN IEC 60529) Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data Coating locking	20 mm M12 x 1 female IP65, IP67, IP66K inserted, screwed 3 0,8 kV I
Installation Connection Stripping length (jacket) Mounting set Gender Device protection Electrical Degree of protection (EN IEC 60529) Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data Coating locking Coating of fitting	20 mm M12 x 1 female IP65, IP67, IP66K inserted, screwed 3 0,8 kV I
Installation Connection Stripping length (jacket) Mounting set Gender Device protection Electrical Degree of protection (EN IEC 60529) Additional condition protection degree Pollution Degree Rated surge voltage Material group (IEC 60664-1) Mechanical data Material data Coating locking Coating of fitting Material gasket	20 mm M12 x 1 female IP65, IP67, IP66K inserted, screwed 3 0,8 kV I
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Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be

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	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 P
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