

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

PUR 4x0.34 gy UL/CSA+drag ch. 1.6m

Male straight – female 90° M12 – M12, 4-pole 3× LED (PNP), (NPN) on request

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

Plastic housings with good resistance against chemicals and oils.

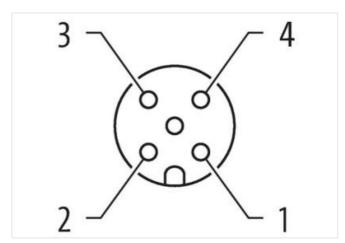
The resistance to aggressive media should be individually tested for your application. Further details on request.

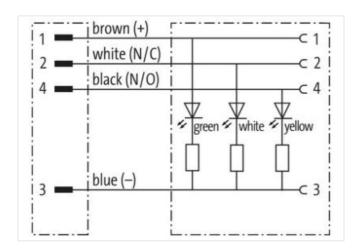
Further cable lengths on request.

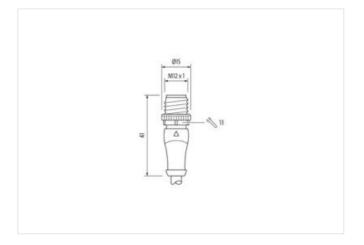
## **Link to Product**

## Illustration



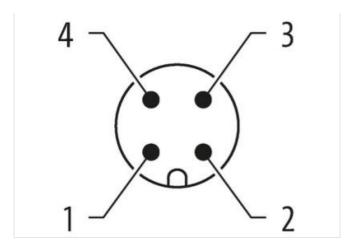


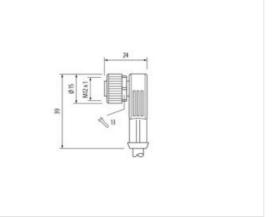






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Product may differ from Image











Cable length	1,6 m
Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal Ø)	10 mm
Material	PUR
Width across flats	SW13
Degree 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
suitable for corrugated tube (internal Ø)	10 mm
Material	PUR
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-11.1	27060311
ECLASS-12.0	27060311
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879399715
Packaging unit	1
Electrical data   Supply	



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Operating voltage DC	041/
	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, white, yellow
Installation   Connection	
Mounting set	M12 x 1
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	0,8 kV
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	Zino dio odoting
Mounting method	inserted, screwed, Shaking protection
	inserted, sciewed, snaking protection
Environmental characteristics   Climatic	
Operating temperature min.	-25 °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.
	Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Note on bending radius	endangered by excessive bending forces.
Note on bending radius  Conformity	endangered by excessive bending forces.
-	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12)
Conformity	endangered by excessive bending forces.
Conformity Product standard Installation   Cable	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12)
Conformity Product standard	endangered by excessive bending forces.
Conformity Product standard Installation   Cable wire arrangement	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12)  brown, black, blue, white
Conformity Product standard Installation   Cable wire arrangement Cable identification	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12)  brown, black, blue, white 234
Conformity Product standard Installation   Cable wire arrangement Cable identification Cable Type	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12)  brown, black, blue, white  234  3
Conformity Product standard Installation   Cable wire arrangement Cable identification Cable Type Jacket Color	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12)  brown, black, blue, white  234  3  gray
Conformity Product standard Installation   Cable wire arrangement Cable identification Cable Type Jacket Color Type of Certificate	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12)  brown, black, blue, white 234 3 gray cURus
Conformity Product standard Installation   Cable wire arrangement Cable identification Cable Type Jacket Color Type of Certificate Amount stranding	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12)  brown, black, blue, white 234 3 gray cURus 1
Conformity Product standard Installation   Cable wire arrangement Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12)  brown, black, blue, white  234  3  gray  cURus  1  4 wires twisted
Conformity Product standard Installation   Cable wire arrangement Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12)  brown, black, blue, white  234  3  gray  cURus  1  4 wires twisted  brown, black, blue, white
Conformity Product standard Installation   Cable wire arrangement Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12)  brown, black, blue, white 234 3 gray cURus 1 4 wires twisted brown, black, blue, white 36,3 g/m
Conformity Product standard Installation   Cable wire arrangement Cable identification Cable Type Jacket Color Type of Certificate Amount stranding Stranding wire arrangement Cable weigth Material jacket	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12)  brown, black, blue, white 234 3 gray cURus 1 4 wires twisted brown, black, blue, white 36,3 g/m PUR
Conformity  Product standard  Installation   Cable  wire arrangement  Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  wire arrangement  Cable weigth  Material jacket  Shore hardness jacket	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12)  brown, black, blue, white 234 3 gray cURus 1 4 wires twisted brown, black, blue, white 36,3 g/m PUR 90 ± 5 Shore A
Conformity  Product standard  Installation   Cable  wire arrangement  Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  wire arrangement  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12)  brown, black, blue, white  234  3  gray  cURus  1  4 wires twisted  brown, black, blue, white  36,3 g/m  PUR  90 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Conformity  Product standard  Installation   Cable  wire arrangement  Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  wire arrangement  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12)  brown, black, blue, white  234  3  gray  cURus  1  4 wires twisted  brown, black, blue, white  36,3 g/m  PUR  90 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  4,5 mm
Conformity  Product standard  Installation   Cable  wire arrangement  Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  wire arrangement  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12)  brown, black, blue, white  234  3  gray  cURus  1  4 wires twisted  brown, black, blue, white  36,3 g/m  PUR  90 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  4,5 mm  ± 5 %
Conformity  Product standard  Installation   Cable  wire arrangement  Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  wire arrangement  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)  Material wire insulation	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12)  brown, black, blue, white  234  3  gray  cURus  1  4 wires twisted  brown, black, blue, white  36,3 g/m  PUR  90 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  4,5 mm  ± 5 %  PP
Conformity  Product standard  Installation   Cable  wire arrangement  Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  wire arrangement  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)  Material wire insulation  Amount wires	endangered by excessive bending forces.  DIN EN 61076-2-101 (M12)  brown, black, blue, white  234  3  gray  cURus  1  4 wires twisted  brown, black, blue, white  36,3 g/m  PUR  90 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  4,5 mm  ± 5 %  PP

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: 2024-05-21



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	4,8 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	IEC 60332-2-2   UL 1581 § 1090   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