

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

PUR 4x0.34 bk UL/CSA+drag ch. 35m

$$\label{eq:male_straight} \begin{split} &\text{Male straight} - \text{female } 90^{\circ} \\ &\text{M12} - \text{M12, 4-pole} \\ &3\times \text{ LED (PNP), (NPN) on request} \end{split}$$

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

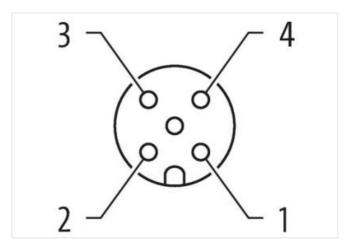
Plastic housings with good resistance against chemicals and oils.

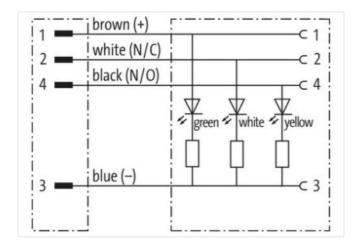
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

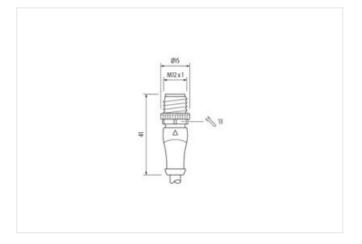
## **Link to Product**

## Illustration



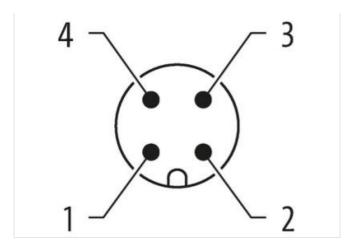


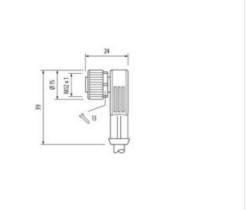






stay connected





Product may differ from Image











Cable length	35 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	4048879831208
Packaging unit	1
Electrical data   Supply	



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Operating voltage DC min. Operating temperature min. Operating t		
Operating voltage DC max.   Operating port contact max.   4 A	Operating voltage DC	24 V
Coverating variage DC max. (U.Ilated) 30 V  Ciuriant operating per contort max. 4 A  Diagnostics  Siatus indication LED green, white, yellow  Installation Connection  Mounting set M12 x 1  Device protection   Electrical  Additional condition protection degree inserted, screwed  Foliation Degree 3 S  Reled surge voltage 0 S V  Material group (EE 6668-1) 1  Coaling of litting  Coalin	Operating voltage DC min.	18 V
Diagnostics Status indication LED green, white, yellow  Installation   Connection  Mounting set MIZ x 1  Additional condition protection degree inserted, screwed  Additional group (IEC 60064-1) I  Mechanical data   Material data  Mechanical data   Material data  Coating folding incide plated  Coating folding incide plated  Coating folding incide plated  Mechanical data   Mounting mickel plated  Mounting metho inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Coperating Inspirature max.  85 °C  Additional condition temperature range depending on cable quality  Important institution network in the permissible bending radiu when laying cables, as the IP protection class can be endangered by excessive bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Contermity  Product standard brown, black, blus, whitis  Cable Type 3  3 Attention: Cheerve the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Contermity  Frequency and the protection of S4  Cable Type 3  3 Attention: Cheerve the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Contermity  Frequency and the protection of S4  Cable Type 3  3 Attention (Cheerve the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Contermity  Frequency and the protection of S4  Cable General Code Type 3  3 Additional code the permissible permiss	Operating voltage DC max.	30 V
Status indication LED green, white, yellow  Installation   Connection  Mounting set M12 x 1  Device protection   Electrical  Additional condition production degree insurance in	Operating voltage DC max. (UL-listed)	30 V
Status indication LED grown, white, yallow  Installation   Connection  Mounting set   M12 x    Device protection   Electrical  Additional condition protection degree   Inserted, screwed    Pollution Degree   3    Asterdia unge voltage   0,8 kV    Material group (IEC 80864-1)   I    Material group (IEC 80864-1)   I    Material group (IEC 80864-1)   I    Mechanical data   Material atta    Mechanical data   Material atta    Material screw connection   Zinc disc-asting    Material screw connection   Zinc disc	Current operating per contact max.	4 A
Installation   Connection  Mounting set	Diagnostics	
Mounting set   M12 x 1  Performance Protection   Electrical  Additional condition protection degree   inserted, screwed    Pollution Degree   3  Rated surge voltage   0,8 kV    Machanical data   Material data    Material screw connection   Zino die-casting    Machanical data   Material data    Machanical data   Material data    Material screw connection    Performantial data   Material data    Material propertial material data    Material propertial material data    Material propertial material data    Material propertial material material    Material propertial material material material    Material propertial material mater	Status indication LED	green, white, yellow
Device protection   Electrical  Additional condition protection degree   inserted, screwed    Pollution Degroe   3   3   3    Rated surge voltage   0,8 kV    Material group (IEC 60664-1)   1    Mechanical data   Material data    Coating of fitting   nickel plated    Coating of fitting   nickel pla	Installation   Connection	
Additional condition protection degree inserted, screwed Pollution Degree 3 Rated surge voltage 0,8 kV Material group (IEC 60664-1) I  Mechanical data   Material data  Coating decking   Nickeled Coating decking   Nickeled Coating decking   Nickeled Coating defining   nickel plated Lucking material   Zinc die casting Material screw connection   Zinc die casting Material screw connection   Zinc die casting Material screw connection   Zinc die casting Mounting method   Inserted, screwed, Shaking protection  Environmental characteristics   Climatic Operating temperature min.   25 °C 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 connections by suitable measures from mechanical loads, e.g. by the usage of cable lies.  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, white   Cable identification   Cable confirmation   Calle confir	Mounting set	M12 x 1
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Pollution Degree 3 Rated surge voltage 0,8 kV  Material group (IEC 60694-1) I  Mechanical data   Material data Coating of fitting nickel plated Locking material Zinc die-casting Material scrow connection 2 inckel plated Locking material Zinc die-casting Material scrow connection 2 inserted, screwed, Shaking protection  Environmental characteristics   Climatic Coperating temperature min. 25 °C Operating temperature min. 25 °C Additional condition temperature range depending on cable quality Important installation notes Note on banding radius Attention: Observe the permissible bending radii when laying cables, as the IP protection diass can be endangered by excessive bending forces.  Conformity Product standard DIN EN 61076-2-101 (M12) Installation   Cable  wire arrangement brown, black, blue, whille Cable identification 634 Cable Type 3 Jacket Color Type of Certificate URBA Cable weigh 4 wires twisted Wire arrangement brown, black, blue, whille Cable weigh 36.3 g/m Material jacket PUR Store hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) 4.5 mm Tolerance outer diameter (jacket) 4.5 mm Gouter diameter (jacket) 4.5 mm Gouter diameter insulation PR Amount wires color insulation 12.55 mm Gouter diameter insulation 12.55 mm Gouter diameter rolerance core insulation 12.55 mm Gouter diameter rolerance core insulation 12.55 mm Gouter diameter rolerance core insulation 12.55 mm	Additional condition protection degree	inserted, screwed
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Material group (IEC 80864-1)  Mechanical data   Material data  Coating locking nickel plated Coating of litting nickel plated Coating of litting nickel plated Coating of litting Material screw connection Mechanical data   Mounting data Mounting method Inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature man. Operating te		0.8 kV
Coating locking         Nickeled           Coating of fitting         nickel plated           Locking material         Zinc die-casting           Meterial screw connection         Zinc die-casting           Mechanical data   Mounting data         Mounting method         inserted, screwed, Shaking protection           Environmental characteristics   Climation         Coperating temperature min.         25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         The connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           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 endangered by excessive bending forces.           Conformity         DIN EN 61076-2-101 (M12)           Installation   Cable         Diversible identification         634           Cable identification         634           Cable identification         634         Cable identification           Cable (color         black         Diversible identification         Cable (color         black           Cap of tiere         Culp of tiere         Culp of	Material group (IEC 60664-1)	<u>,                                      </u>
Coating locking         Nickeled           Coating of fitting         nickel plated           Locking material         Zinc die-casting           Meterial screw connection         Zinc die-casting           Mechanical data   Mounting data         Mounting method         inserted, screwed, Shaking protection           Environmental characteristics   Climation         Coperating temperature min.         25 °C           Operating temperature max.         85 °C           Additional condition temperature range         depending on cable quality           Important installation notes         The connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.           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 endangered by excessive bending forces.           Conformity         DIN EN 61076-2-101 (M12)           Installation   Cable         Diversible identification         634           Cable identification         634           Cable identification         634         Cable identification           Cable (color         black         Diversible identification         Cable (color         black           Cap of tiere         Culp of tiere         Culp of	Mechanical data   Material data	
Coating of fitting   nickel plated   Zinc die-casting   Zinc die-casting		Nickolad
Locking material Zinc die-casting Material screw connection Inserted, screwed, Shaking protection  Environmental characteristics   Climatic Operating temperature min25 °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 endangered by excessive bending forces.  Contormity  Product standard DIN En 61076-2-101 (M12) Installation   Cable  wire arrangement brown, black, blue, white Cable identification 634 Cable wire arrangement brown, black, blue, white Cable identification 64 Cable wire arrangement brown, black, blue, white Cable identification 64 Cable identification 65 Continuity  Stranding 1 Stranding 1 Stranding 1 Wire arrangement brown, black, blue, white Cable weight 36,3 g/m Material jacket PUR Shore hardness jacket 90 ± 5 Shore A Freedom from ingredients (jacket) 19.4 5 mm  Tolerance outer diameter (sheath) 5 % Material wire insulation PP Amount wires 4  Quiter diameter (sheath) 1,25 mm  Outer diameter relocation 1,25 mm  Outer diameter tolerance core insulation ± 5 %		
Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking 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 reliel 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 endangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12)  Installation   Cable  wire arrangement brown, black, blue, white Cable identification 634  Cable identification 634  Cable identification 64  Amount stranding 1  Stranding 4 wires twisted  wire arrangement brown, black, blue, white Cable weight 36,3 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  Outler-diameter (jacket) 4,5 mm  Material wire insulation PP  Amount wires 6  Material wire insulation 1,25 mm  Outler diameter tolerance core insulation 1,25 mm  Outler diameter tolerance core insulation 1,55 mm  Outler diameter tolerance core insulation 1,25 mm  Outler diameter tolerance core insulation 1,55 mm		·
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Environmental characteristics   Climatic Operating temperature min25 °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) Installation   Cable wire arrangement brown, black, blue, white Cable identification   634 Cable Type   3 Jacket Color black Type of Certificate cURus Amount stranding 1 Stranding 4 wires twisted wire arrangement brown, black, blue, white Cable weigh 36,3 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 (glacket) 4,5 mm Tolerance outer diameter (sheath) + 5 % Material wire insulation PP Amount wires - 4 Outer diameter insulation 1,25 mm Outer diameter insulation 1,25 mm Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation ± 5 %		
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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, white Cable identification 634  Cable Type 3  Jacket Color black  Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted  wire arrangement brown, black, blue, white Cable weigth 36,3 g/m  Material jacket PUR  Shore hardness jacket PUR  Shore hardness jacket 90±5 Shore A  Freedom from ingredients (jacket) 4,5 mm  Tolerance outer diameter (sheath) ±5 %  Material wire insulation PP  Amount wires 4  Amount stranding 5  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Attention: Observe the permissible	Important installation notes	
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Product standard DIN EN 61076-2-101 (M12)  Installation   Cable  wire arrangement brown, black, blue, white  Cable identification 634  Cable Type 3  Jacket Color black Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted  wire arrangement brown, black, blue, white  Cable weigth 36,3 g/m  Material jacket PUR  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 4,5 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter tolerance core insulation ± 5 %  Outer diameter tolerance core insulation ± 5 %  Outer diameter tolerance core insulation ± 5 %	Note on bending radius	
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Type of Certificate cURus  Amount stranding 1  Stranding 4 wires twisted  wire arrangement brown, black, blue, white  Cable weigth 36,3 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) 4,5 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %	Cable Type	3
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wire arrangement brown, black, blue, white  Cable weigth 36,3 g/m  Material jacket PUR  Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free  Outer-diameter (jacket) 4,5 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %	Amount stranding	1
Cable weigth 36,3 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) 4,5 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %	Stranding	4 wires twisted
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) 4,5 mm Tolerance outer diameter (sheath) ± 5 % Material wire insulation PP Amount wires 4 Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation ± 5 %	wire arrangement	brown, black, blue, white
Shore hardness jacket 90 ± 5 Shore A  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket) 4,5 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %	Cable weigth	36,3 g/m
Freedom from ingredients (jacket)  Outer-diameter (jacket)  4,5 mm  Tolerance outer diameter (sheath)  4 5 %  Material wire insulation  PP  Amount wires  4  Outer diameter insulation  1,25 mm  Outer diameter tolerance core insulation  ± 5 %	Material jacket	PUR
Outer-diameter (jacket) 4,5 mm  Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %	Shore hardness jacket	
Tolerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material wire insulation PP Amount wires 4 Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation ± 5 %	Outer-diameter (jacket)	4,5 mm
Amount wires 4  Outer diameter insulation 1,25 mm  Outer diameter tolerance core insulation ± 5 %	Tolerance outer diameter (sheath)	± 5 %
Outer diameter insulation 1,25 mm Outer diameter tolerance core insulation ± 5 %	Material wire insulation	PP
Outer diameter tolerance core insulation ± 5 %	Amount wires	4
	Outer diameter insulation	1,25 mm
Shore hardness wire insulation 70 ± 5 Shore D	Outer diameter tolerance core insulation	±5%
	Shore hardness wire insulation	70 ± 5 Shore D

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: 2024-05-19



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
UV resistance	DIN EN ISO 4892-2 A
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