

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

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

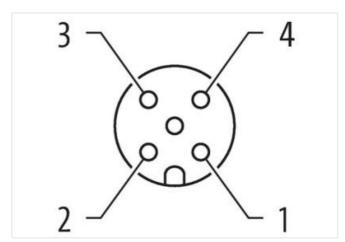
Plastic housings with good resistance against chemicals and oils.

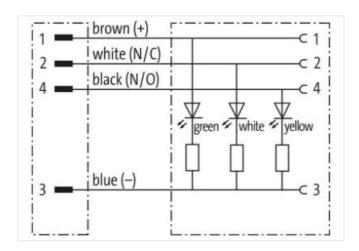
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

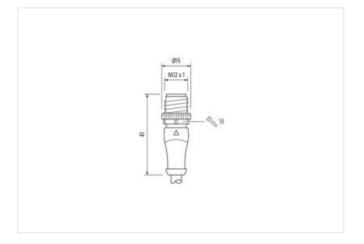
## **Link to Product**

## Illustration



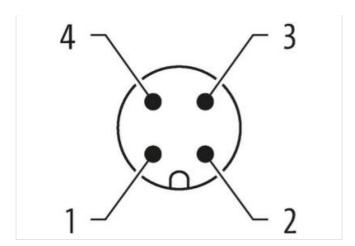


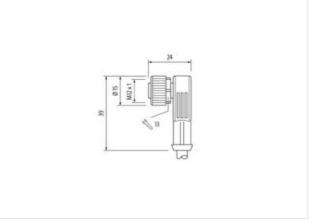






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Product may differ from Image











Cable length	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	4048879339636
Packaging unit	1
Electrical data   Supply	



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Disposition Dispos		
Diagnostics   Islantia ridication LED   green, while, yellow   Installation   Connection   Islantia ridication   Connection   Islantia ridication   Islantia   Isla		
Installation   Connection   C	Current operating per contact max.	4 A
Installation   Connection  Mounting set M12 x 1  Device protection   Electrical  diditional condition protection degree insented, screwed  related surge voltage 0,8 kV  Material group (IEC 80684-1) I  Mechanical data   Material data  Solating locking of litting nickel plated  coating nethrold insented at a Mounting data  Nounting method insented, screwed, Shaking protection  Environmental characteristics   Climatic  Departing temperature min. 25 °C  Departing temperature max. 85 °C  diditional condition temperature range depending on cable quality  Important installation notes  Volte on shain rolled Protect the connectors by suitable measures from mechanical coats, e.g., by the usage of cable lies  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be entangened by exceesive bending forces.  Conformity  Troduct standard DIN En 81076-2-101 (M12)  Installation   Cable  Listending   Cable   Cabl	Diagnostics	
Device protection   Electrical  dictional condition protection degree inserted, screwed  collution Degree 3  lated surge votage 0,8 kV  laterial group (IEC 60684+1) 1  Mochanical data   Material data  Coeing of letting nickel plated  coeing of filting nickel plated  coeing nickel plate	Status indication LED	green, white, yellow
Device protection   Electrical    deditional condition protection degree    inserted, screwed    district surge voltage   0,8 kV    deterrial group (IEC 60684-1)    Mechanical data   Material data    Sozialing of fitting   sale-cover coated    obeing of fitting   nickel plated    Obeing of fitting   nickel plated    Obeing anderial    Sozialing of fitting   nickel plated    Obeing of fitting   nickel plated    Obeing method   nicerted, screwed, Shaking protection    Environmental characteristics   Climatic    Departing temporature min.   25 °C    Operating temperature max.   85 °C    Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.  Conformity    Troduct standard   Sole    Sale definition   Cable    Sale definition   Cabl	Installation   Connection	
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Mechanical data   Material dat	Pollution Degree	3
Mechanical data   Material data   Safe-cover coated   Safe-coated   Safe-coate	Rated surge voltage	0,8 kV
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Mechanical data   Mounting data    Mounting method   Inserted, screwed, Shaking protection	Locking material	· · · · · · · · · · · · · · · · · · ·
inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min.  -25 °C  Operating temperature max.  85 °C  diditional condition temperature range depending on cable quality  Important installation notes  Uote 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  Product standard  DIN EN 61076-2-101 (M12)  Installation   Cable  Cable identification  654  Cable Type  5  Cacket Color  black  Yoge of Certificate  Culflus  Amount stranding  1  Stranding  4 wires twisted  brown, black, blue, white  Cable weight  36.3 g/m  Attential jacket  PUR  Shore hardness jacket  58 ± 3 Shore D  Freedom from ingredients (jacket)  Lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Witter diameter (jacket)  4.7 mm  Oolerance outer diameter (sheath)  25 %  Moter diameter folerance core insulation  74 ± 3 Shore D  Force diameter insulation  74 ± 3 Shore D  Force hardness wire insulation  74 ± 3 Shore D  Force diameter folerance core insulation  74 ± 3 Shore D	Material screw connection	
inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min.  -25 °C  Operating temperature max.  85 °C  diditional condition temperature range depending on cable quality  Important installation notes  Uote 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  Product standard  DIN EN 61076-2-101 (M12)  Installation   Cable  Cable identification  654  Cable Type  5  Cacket Color  black  Yoge of Certificate  Culflus  Amount stranding  1  Stranding  4 wires twisted  brown, black, blue, white  Cable weight  36.3 g/m  Attential jacket  PUR  Shore hardness jacket  58 ± 3 Shore D  Freedom from ingredients (jacket)  Lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Witter diameter (jacket)  4.7 mm  Oolerance outer diameter (sheath)  25 %  Moter diameter folerance core insulation  74 ± 3 Shore D  Force diameter insulation  74 ± 3 Shore D  Force hardness wire insulation  74 ± 3 Shore D  Force diameter folerance core insulation  74 ± 3 Shore D	Mechanical data   Mounting data	
Environmental characteristics   Climatic  Operating temperature min.		inserted screwed Shaking protection
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Sable identification         654           Sable Type         5           acket Color         black           type of Certificate         cURus           imount stranding         1           stranding         4 wires twisted           vire arrangement         brown, black, blue, white           Sable weigth         36,3 g/m           Alterial jacket         PUR           Shore hardness jacket         58 ± 3 Shore D           reedom from ingredients (jacket)         lead-free, cadmium-free, CFC-free, halogen-free, silicone-free           outer-diameter (jacket)         4,7 mm           folerance 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 wire insulation         74 ± 3 Shore D	Product standard	DIN EN 61076-2-101 (M12)
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A wires twisted  wire arrangement brown, black, blue, white  Sable weigth 36,3 g/m  Material jacket PUR  Shore hardness jacket 58 ± 3 Shore D  Greedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free  Subter-diameter (jacket) 4,7 mm  Folerance outer diameter (sheath) ± 5 %  Material wire insulation PP  Amount wires 4  Subter diameter insulation 1,25 mm  Subter diameter tolerance core insulation 74 ± 3 Shore D	Type of Certificate	cURus
brown, black, blue, white  Sable weigth  36,3 g/m  Material jacket  PUR  Shore hardness jacket  58 ± 3 Shore D  Freedom from ingredients (jacket)  Lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  Outer-diameter (jacket)  A,7 mm  Folerance outer diameter (sheath)  ± 5 %  Material wire insulation  PP  Amount wires  4  Outer diameter insulation  1,25 mm  Outer diameter tolerance core insulation  4 ± 3 Shore D  Shore hardness wire insulation  74 ± 3 Shore D	Amount stranding	1
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Shore hardness jacket 58 ± 3 Shore D  Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free silicone-free  Outer-diameter (jacket) 4,7 mm  Folerance 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 wire insulation 74 ± 3 Shore D	Cable weigth	36,3 g/m
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Outer-diameter (jacket) 4,7 mm  Folerance 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 wire insulation 74 ± 3 Shore D	Shore hardness jacket	58 ± 3 Shore D
Folerance 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 wire insulation 74 ± 3 Shore D	Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
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	Outer diameter tolerance core insulation	
ngredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free	Shore hardness wire insulation	74 ± 3 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



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
Traversing distance (C-track)	5 m @ 25 °C   horizontal
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	60 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 § 1100 FT2   IEC 60332-2-2   UL 1581 § 1090
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
Travel speed (C-track)	10 Mio. @ 25 °C
No. of torsion cycles	1 Mio.
Torsion stress	± 360 °/m
Torsion speed	35 cycles/min