

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

PUR 4x0.34 gy UL/CSA+drag ch. 15m

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.

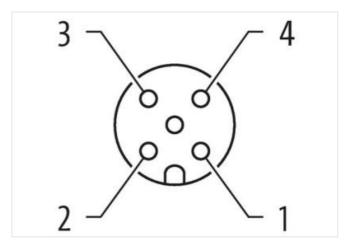
The resistance to aggressive media should be individually tested for your application. Further details on request.

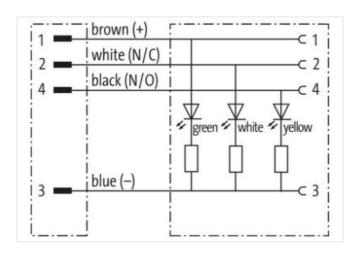
Further cable lengths on request.

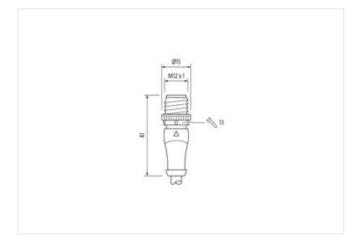
## **Link to Product**

## Illustration





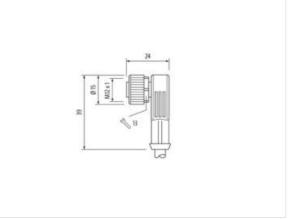






stay connected





Product may differ from Image











Cable length	15 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	4048879169776
Packaging unit	1
Electrical data   Supply	



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endangered by excessive bending forces.  Conformity  Product standard DIN EN 61076-2-101 (M12)  Installation   Cable  Cable identification 234  Cable Type 3  Jacket Color gray  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	ating voltage DC	24 V
Operating voitage DC max. (UL-listed)         30 V           Current operating per contact max.         4 A           Diagnostics         Status indication LED         green, white, yellow           Installation   Connection         M12 x 1           Mounting set         M12 x 1           Device protection   Electrical         Additional condition protection degree           Pollution Degree         3           Rated surge voitage         0,8 kV           Material group (IEC 60684-1)         1           Mechanical data   Material data         Image: Microsophy and a contact of the protection of the prot	ating voltage DC min.	18 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 3  Rated surge voitage 0.8 kV  Material group (IEC 60684-1) I  Mechanical data   Material data  Coating locking material  Locking material  Locking material  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Forerating temperature min25 °C  Operating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes  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.  Cable identification 234  Alendon: Cable region 3  Jacket Color gray  Type of Certificate Cultus  House House A wires twisted  wire arrangement Cable Verificate Cultus  Locking material Cable Cultus  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.	ating voltage DC max.	30 V
Diagnostics	ating voltage DC max. (UL-listed)	30 V
Status indication LED         green, white, yellow           Installation   Connection         M12 x 1           Device protection   Electrical         Additional condition protection degree         inserted, screwed           Pollution Degree         3         Rated surge voitage         0.8 kV           Material group (IEC 60664-1)         1         Image: Control of Con	nt operating per contact max.	4 A
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)   I  Mechanical data   Material data   Coating locking   Nickeled   Coating locking   nickel plated   Locking material   Zinc die-casting   Material screw connection   Zinc die-casting   Mechanical data   Mounting data   Mounting method   inserted, screwed, Shaking protection    Environmental characteristics   Climatic    Coperating 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 lies. 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.  Contormity   Product standard   Din En 61076-2-101 (M12)   Installation   Cable   Cable identification   234   Cable of Type   3   Jacket Color   gray   Type of Certificate   Culfus   Amount stranding   1   Stranding   4 wires twisted   Wire arrangement   brown, black, blue, white   Cable weight   36.3 g/m   Material jacket   PUR	nostics	
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)   I  Mechanical data   Material data   Coating locking   Nickeled   Coating locking   nickel plated   Locking material   Zinc die-casting   Material screw connection   Zinc die-casting   Mechanical data   Mounting data   Mounting method   inserted, screwed, Shaking protection    Environmental characteristics   Climatic    Coperating 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 lies. 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.  Contormity   Product standard   Din En 61076-2-101 (M12)   Installation   Cable   Cable identification   234   Cable of Type   3   Jacket Color   gray   Type of Certificate   Culfus   Amount stranding   1   Stranding   4 wires twisted   Wire arrangement   brown, black, blue, white   Cable weight   36.3 g/m   Material jacket   PUR		green white vellow
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 60684-1) I  Mechanical data   Material data Coating ol fitting nickel plated Coating of litting nickel plated Material screw connection Zinc die-casting Material screw connection Zinc die-casting Material screw connection Zinc die-casting Mechanical data   Mounting data Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic Operating temperature mix. 45 °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.  Conformity  Product standard DIN En 61076-2-101 (M12)  Installation   Cable Cable identification   234 Cable Type   3 Jacket Cotor gray Type of Certificate CURus Amount stranding 1 Stranding 4 wires twisted wire arrangement brown, black, blue, white Cable weight   36.3 g/m Material jacket PUR		g. co.,
Device protection   Electrical	·	M10 v 1
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 locking Nickeled  Coating locking Nickeled   Coating of fitting nickel plated  Locking material Zinc die-casting  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 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  Cable identification 234  Cable Type 3  Jacket Color gray  Type of Certificate CURUs  Amount stranding 1  Stranding 4 wires twisted  Muterial jacket PUR		WIZX I
Pollution Degree 3 Rated surge voltage 0,8 kV Material group (IEC 60664-1) I  Coating locking Nickeled Coating of fitting nickel plated Locking material 2 Zinc die-casting Material grow onnection Zinc die-casting Material screw connection Zinc die-casting Material screw connection Zinc die-casting Mechanical data   Mounting data Mounting method 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 lies. 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  Cable identification 234 Cable Type 3 Jacket Color gray Type of Certificate cURus Amount stranding 1 Stranding 4 wires twisted Material jacket PUR		
Rated surge voltage         0,8 kV           Material group (IEC 60664+1)         1           Mechanical data   Material data         Incise   Material   Material data   Material data   Material data   Material data   Material   Zinc die-casting   Zinc die-casting   Zinc die-casting   Zinc die-casting   Material screw connection   Zinc die-casting   Zinc die casting   Zinc die castin	<u> </u>	· · · · · · · · · · · · · · · · · · ·
Material group (IEC 60664-1)  Mechanical data   Material data Coating locking Nickeled Coating of lifting nickel plated Locking material Zinc die-casting Material screw connection Zinc die-casting Mechanical data   Mounting data Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Operating temperature min25 °C Operating temperature max. 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  Cable identification 234  Cable Type 3 Jacket Color gray  Type of Certificate CURus Amount stranding 1 Stranding 4 wires twisted wire arrangement Drown, black, blue, white Cable weigth 36,3 g/m Material jacket PUR		
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Coating of fitting nickel plated Locking material Zinc die-casting Material screw connection Zinc die-casting  Mechanical data   Mounting data  Mounting method 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.  Conformity  Product standard DIN EN 61076-2-101 (M12)  Installation   Cable Cable identification 234 Cable identification 234 Cable identification 234 Cable Type 3 Jacket Color gray 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	hanical data   Material data	
Locking material     Zinc die-casting       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     Protect 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.       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       Cable identification     234       Cable deform     234       Gable Type     3       Jacket Color     gray       Type of Certificate     cURus       Amount stranding     4 wires twisted       wire arrangement     brown, black, blue, white       Cable weigth     36,3 g/m       Material jacket     PUR	ng locking	Nickeled
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Cable weigth 36,3 g/m Material jacket PUR		
Material jacket PUR	<u> </u>	
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Shore nargness jacket 90 ± 5 Shore A	e hardness jacket	90 ± 5 Shore A
Freedom from ingredients (jacket) lead-free, cadmium-free, CFC-free, halogen-free, silicone-free		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	diameter insulation	1,25 mm
Outer diameter tolerance core insulation ±5%		
	e hardness wire insulation	70 ± 5 Shore D
Onore naturess wite insulation /o ± 5 Shote D		



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)	10 m @ 25 °C   horizontal
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
Nominal voltage power AC max.	300 V
Power frequency withstand voltage power (wire - jacket)	2,5 kV @ 60 s
AC withstand voltage power (wire - wire)	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
No. of bending cycles (C-track)	10 Mio. @ 25 °C
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
No. of torsion cycles	2 Mio.
Torsion speed	35 cycles/min
Torsion stress	± 180 °/m