

## M12 female 90° A-cod. with cable LED

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

Female 90° Zinc die casting, save-cover coated M12, 4-pole 3× LED (PNP)

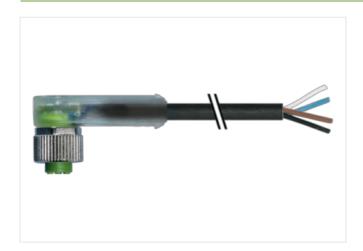
Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request

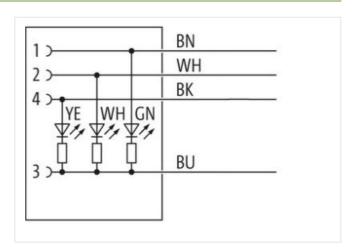
Plastic housings with good resistance against chemicals and oils.

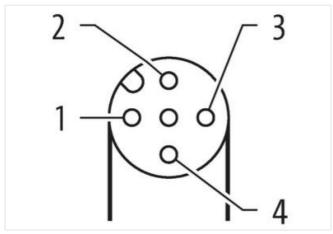
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

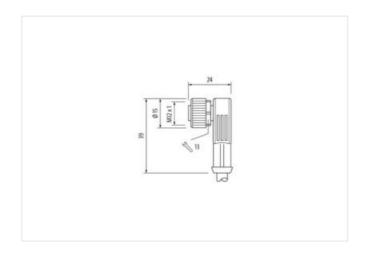
## **Link to Product**

## Illustration









Product may differ from Image











Cable length

15 m

Side 1



stay connected

Thread         M12 x 1           suitable for corrugated tube (internal Ø)         10 mm           Coding         A           Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Commercial data           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060311	Tightening torque	0,6 Nm
Family construction form   M12 x 1	Mounting method	inserted, screwed
Suitable for corrugated lube (internal 0)         10 mm           Coding         A           Material         PUR           Width across flats         SWH3           Degree of protection (ENEC 60529)         IP65, P69K, IP67           Commercial data         FORMAND (INTERNATION OF CONTROLL	Family construction form	M12
Coding         A           Material         PUR           With across fists         SW13           Degree of protection (EN ISC 80529)         PSE, IPSEK, IPS7           Commercial data           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27003311           ECLASS-9.0         27003311           ECLASS-1.1         27003311           ECLASS-1.2.0         27003311           ECLASS-1.2.0         27003311           ETIM-5.0         EC001855           Coulsons sarff number         8544220           GTIN         404887303721           Packaging unit         1           Electrical data Isopphy         Poperating voltage DC           Operating voltage DC max.         3 0 V           Operating voltage DC max.         3 0 V           Operating voltage DC max.         4 A           Department of pure contract max.         4 A           Diagnostics         MI2 x 1           Installation   Connection         Mounting set         MI2 x 1           Bevice protection   Electrical         A           Additional condition protection degr	Thread	M12 x 1
Material         PUR           Width across fists         SWI3           Degree of protection (ENEC 60529)         PB6, IP68K, IP67           Commercial data         Commercial data           ECLASS-6.1         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-9.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-11.2         27060311           ECLASS-12.0         27060311           ECLASS-13.0         27060311           ECLASS-10.1         27060311           ECLASS-10.2         27060311           ECLASS-10.3         27060311           ECLASS-10.4         27060311           ECLASS-10.8         27060311           ECLASS-10.1         24 V           Operating voltage DC max.         30 V	suitable for corrugated tube (internal Ø)	10 mm
Material         PUR           Width across fists         SWI3           Degree of protection (ENEC 60529)         PB6, IP68K, IP67           Commercial data         Commercial data           ECLASS-6.1         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-9.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-11.2         27060311           ECLASS-12.0         27060311           ECLASS-13.0         27060311           ECLASS-10.1         27060311           ECLASS-10.2         27060311           ECLASS-10.3         27060311           ECLASS-10.4         27060311           ECLASS-10.8         27060311           ECLASS-10.1         24 V           Operating voltage DC max.         30 V	Coding	A
Degree of protection (EN IEC 60525)         IP65, IP66K, IP67           Commercial data           ECLASS-6.1         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-9.0         27260311           ECLASS-9.0         27060311           ECLASS-9.1.1         27060311           ECLASS-1.1.1         27060311           ECLASS-1.0         27060311           Eccasion of Collegation of Collegation of Collegation of Collegation of Collegation of Collegation of Colleg		PUR
Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27779218           ECLASS-9.0         27060311           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         24 V           Operating voltage DC         24 V           Operating local polic proceducion LED	Width across flats	SW13
Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27779218           ECLASS-9.0         27060311           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         24 V           Operating voltage DC         24 V           Operating local polic proceducion LED	Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
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ECLASS-8.0         27279218           ECLASS-9.0         27669311           ECLASS-10.1         27069311           ECLASS-11.1         27069311           ECLASS-12.0         27069311           ETIM-5.0         ECO1855           customs tariff number         85444290           GTIN         4048879399721           Packaging unit         1           Electrical data   Supply           Operating voltage DC mix         18 V           Operating voltage DC mix         30 V           Operating voltage DC max.         30 V           Operating voltage DC max. (UL-listed)         30 V           Installation   Connection         Mix x           Mounting set         Mix x           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rate data   Material data         X           Material data   Material data           Coasing of litting         inicker plated	ECLASS-6.1	27279218
ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ETIM-5.0         E0001855           customs tariff number         8544290           GTIN         4046879309721           Packaging unit         1           Electrical data   Supply         Voperating voltage DC min.           Operating voltage DC min.         18 V           Operating voltage DC max.         30 V           Operating voltage DC max.         30 V           Current operating per contact max.         4 A           Diagnostics         Status indication LED           Status indication   Connection         M12 X 1           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         0,8 kV           Material group (EC 60064-1)         I           Mechanical data   Material data         Zinc dis-casting           Material screw connection         Zinc dis-casting           Material screw connection         Zinc dis-casting           Mechanical data   Mounting data         Mechanical data   Mounting data		27279218
ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ETIM-5.0         E0001855           customs tariff number         8544290           GTIN         4046879309721           Packaging unit         1           Electrical data   Supply         Voperating voltage DC min.           Operating voltage DC min.         18 V           Operating voltage DC max.         30 V           Operating voltage DC max.         30 V           Current operating per contact max.         4 A           Diagnostics         Status indication LED           Status indication   Connection         M12 X 1           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         0,8 kV           Material group (EC 60064-1)         I           Mechanical data   Material data         Zinc dis-casting           Material screw connection         Zinc dis-casting           Material screw connection         Zinc dis-casting           Mechanical data   Mounting data         Mechanical data   Mounting data		
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ECLASS-12.0         27060311           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879309721           Packaging unit         1           Electrical data   Supply           Operating voltage DC         24 V           Operating voltage DC max.         30 V           Operating voltage DC max.         30 V           Operating voltage DC 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 of lifting           Locking material         Zinc die-casting           Mechanical data   Mounting data           Mounting method         inserted, screwed, Shaking protection           Environmental characteristics   Climati	ECLASS-11.1	
ETIM-S.0         EC001855           customs tariff number         85444290           GTIN         404887309721           Packaging unit         1           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, 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 of litting         nickel plated           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data   Munting data         ****           Mounting method         inserted, screwed. Shak		
customs tariff number         85444290           GTIN         4048879309721           Packaging unit         1           Electrical data   Supply         Feetrical data   Supply           Operating voltage DC max.         30 V           Operating voltage DC max.         30 V           Operating operating per contact max.         4 A           Diagnostics           Status indication LED           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 60684-1)         I           Mechanical data   Material data           Coating locking         safe-cover coated           Coating of fitting         nickel plated           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data   Mounting data         inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Coperating temperature min.         -25 °C           O		
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Packaging unit         1           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           Operating voltage DC max. (UL-listed)         30 V           Outcome to operating per contact max.         4 A           Diagnostics         Status indication LED           Status indication LED         green, white, yellow           Installation   Connection         Mounting set         M12 x 1           Device protection   Electrical         M2 x           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         I           Coating locking         safe-cover coated           Coating of fitting         nickel plated           Locking material         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data   Mounting data         Xinc die-casting           Mounting method         inserted, screwed, Shaking protection		
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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 safe-cover coated  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	Installation   Connection	
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Locking material  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		nickel plated
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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		Zinc die-casting
Environmental characteristics   Climatic  Operating temperature min.  Operating temperature max.  85 °C  Additional condition temperature range depending on cable quality  Important installation notes	Mechanical data   Mounting data	
Environmental characteristics   Climatic  Operating temperature min.  Operating temperature max.  85 °C  Additional condition temperature range depending on cable quality  Important installation notes	Mounting method	inserted, screwed, Shaking protection
Operating temperature max. 85 °C Additional condition temperature range depending on cable quality  Important installation notes		
Additional condition temperature range depending on cable quality  Important installation notes	Operating temperature min.	-25 °C
Important installation notes	Operating temperature max.	85 °C
	Additional condition temperature range	depending on cable quality
Note on strain relief  Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.	Important installation notes	
	Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.

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: 2024-05-16



stay connected

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.

Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Installation   Cable	
Cable identification	654
Cable Type	5
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	58 ± 3 Shore D
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Outer-diameter (jacket)	4,7 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 wire insulation	74 ± 3 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
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
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