

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

PUR 4x0.34 ye UL/CSA+robot+drag ch. 20m

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

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

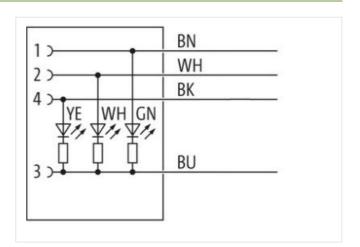
Plastic housings with good resistance against chemicals and oils.

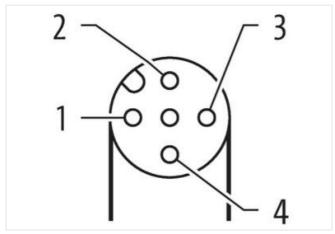
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

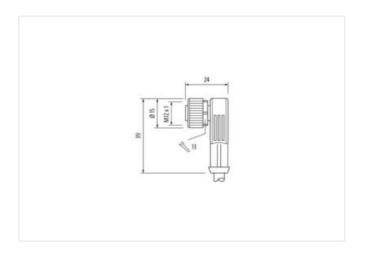
## **Link to Product**

## Illustration









Product may differ from Image











Cable length

20 m

Side 1



Family construction form Thread M12 x 1  autilation for corrugated tube (informal 0) 10 mm  Coding A Multipart Wilderfard PUR	Tightening torque	0,6 Nm
Mile	Mounting method	inserted, screwed
	Family construction form	M12
Description   A   Material   PUR	Thread	M12 x 1
Melerial   PUR   Width across   Table   PUR   Width across   Table   PUR   Width across   Table   PUR   PU	suitable for corrugated tube (internal Ø)	10 mm
Midth across flatts	Coding	A
Degree of protection (EN IEC 60529)	Material	PUR
Commercial data         2001 801           ECLASS-6.0         27061 801           ECLASS-7.0         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           Sustains staff number         85444290           STIN         4065999003022           Packaging unit         1           Electrical data   Supply           Operating voltage DC min.         18 V           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           Deparating voltage DC max.         30 V           Current operating per contact max.         4 A           Deparating voltage DC max.         30 V           Current operating per contact max.         4 A           Device protection   Electrical           Modificant on LED         inserted, screwed           Pollution Degree         3           Related acting voltage         0.8 kV <td>Width across flats</td> <td>SW13</td>	Width across flats	SW13
ECLASS-6.0 27061801  ECLASS-6.1 27279218  ECLASS-7.0 27279218  ECLASS-8.0 27060311  ECLASS-9.0 27060311  ECLASS-11.1 27060311  ECLASS-11.1 27060311  ECLASS-11.1 27060311  ECLASS-11.1 27060311  ECLASS-12.0 27060311  ECLASS-12.0 27060311  ECLASS-12.0 27060311  ECLASS-13.0 27060311  ECLASS-14.0 27060311  ECLASS-15.0 27060311  ECLASS-16.0 27060311  ECLASS-17.0 27060311  ECLASS-18.0 27060311  ECLASS-19.0 27060311  ECLASS-10.0 2706031  ECLAS-10.0 2706031  ECLAS-10.0 20011  ECLAS-10.0 200	Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
ECLASS-6.1 27279218  ECLASS-7.0 27279218  ECLASS-9.0 27790218  ECLASS-9.0 27080311  ECLASS-9.0 27080311  ECLASS-10.1 27080311  ECLASS-11.1 27080311  ECLASS-12.0 2708031  EC	Commercial data	
ECLASS-7.0 27279218  ECLASS-8.0 27279218  ECLASS-9.0 27080311  ECLASS-10.1 27080311  ECLASS-11.1 27080311  ECLASS-11.1 27080311  ECLASS-12.0 27080311  ECLASS-12.0 27080311  EXPERIMENT OF THE PROPERTY OF THE	ECLASS-6.0	27061801
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ECLASS-9.0 27060311 ECLASS-10.1 27060311 ECLASS-11.1 27060311 ECLASS-12.0 27060311 ECLASS-12.0 27060311 ECLASS-12.0 27060311 ECLASS-12.0 27060311  SITIN 406509003022  Packaging unit 1  Electrical data   Supply  Operating voltage DC 24 V  Operating voltage DC max. (30 V  Operating voltage DC max.	ECLASS-7.0	27279218
ECLASS-10.1 27060311  ECLASS-11.0 27060311  ECLASS-12.0 27060311  Dustoms tarlif number 85444290  STIN 4065999003022  Peakaging unt 1  Electrical data   Supply  Deparating voltage DC 24 V  Operating voltage DC max. 30 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 3  Rated surge voltage 0 0,8 kV  Material group (IEC 60664-1) I  Mechanical data   Material data  Coating locking instered   Zinc die-casting    Mechanical data   Material data  Coating of fitting nickel plated    Locking material   Zinc die-casting    Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic    Deparating temperature min25 °C    Operating temperature max. 85 °C    Additional condition temperature range   depending on cable quality    Important installation notes	ECLASS-8.0	27279218
ECLASS-1.1 27060311 ECLASS-12.0 27060311 ECLASS-12.0 27060311 Sustoms tariff number 85444290 GTIN 4065909003022 Packaging unk 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. 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) I  Mechanical data   Material data  Coating locking safe-cover coated  Coating of fitting nickel plated  Locking material Zinc die-casting  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental Abaracteristics   Climatic  Deperating temperature min25 °C Operating temperature mage depending on cable quality  Important installation notes	ECLASS-9.0	27060311
ECLASS-12.0 27060311  sustoms tariff number 85444290  3TIN 406599003022  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 V	ECLASS-10.1	27060311
customs tariff number 8544290 STIN 465590903022 Packaging unit 1  Electrical data   Supply  Operating voltage DC 24 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  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  Methanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Mechanical data   Mounting data  Mounting method inserted, screwed, Shaking protection  Environmental characteristics   Climatic  Diverating temperature min. 25 °C  Operating temperature min. 25 °C  Operating temperature min. 25 °C  Additional condition notes	ECLASS-11.1	27060311
Action of the protection of th	ECLASS-12.0	27060311
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Electrical data   Supply  Operating voltage DC	GTIN	4065909003022
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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 6064-1) I  Mechanical data   Material data  Coating locking safe-cover coated  Coating locking inserted included inserted in	Operating voltage DC max.	30 V
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) I  Mechanical data   Material data  Coating locking safe-cover coated  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  Deparating temperature min25 °C  Operating temperature max. 85 °C  Additional condition temperature range depending on cable quality  Important installation notes		30 V
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) 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  Additional condition notes	Current operating per contact max.	4 A
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Rated surge voltage 0,8 kV  Material group (IEC 60664-1) 1  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	Additional condition protection degree	inserted, screwed
Material group (IEC 60664-1)  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 min.  -25 °C  Operating temperature max.  85 °C  Additional condition temperature range  depending on cable quality	Pollution Degree	3
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	Rated surge voltage	0,8 kV
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	Material group (IEC 60664-1)	I
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	Mechanical data   Material data	
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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.  Operating temperature max.  85 °C  Additional condition temperature range  depending on cable quality  Important installation notes	Coating of fitting	
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Environmental characteristics   Climatic  Operating temperature min.  -25 °C  Operating temperature max.  85 °C  Additional condition temperature range depending on cable quality  Important installation notes	Mechanical data   Mounting data	
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Operating temperature max.  85 °C  Additional condition temperature range depending on cable quality  Important installation notes	Environmental characteristics   Climatic	
Additional condition temperature range depending on cable quality  Important installation notes	Operating temperature min.	-25 °C
Important installation notes	Operating temperature max.	85 °C
N	Additional condition temperature range	depending on cable quality
N	Important installation notes	
	Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.



stay connected

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.

-	endangered by excessive bending forces.
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Installation   Cable	
Cable identification	054
Cable Type	5
Jacket Color	yellow
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 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 (charled a)	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
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	DIN EN 60811-404   Good, application-related testing
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
•	•