

## M12 female 90° A-cod. with cable

PUR 4x0.34 ye UL/CSA 30m

## **⚠ NOTICE ⚠** PRODUCT IS DISCONTINUED. PLEASE HAVE A LOOK AT THE ALTERNATIVE PRODUCTS.

Female 90°

M12, 4-pole

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

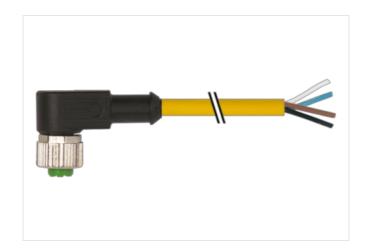
with cable sleeves

Plastic housings with good resistance against chemicals and oils.

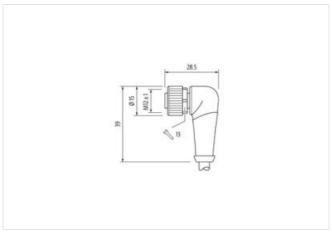
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

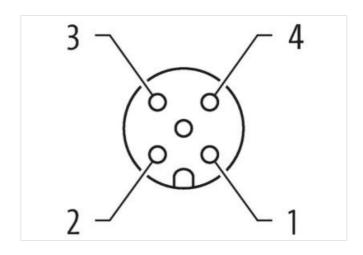
## **Link to Product**

## Illustration









Product may differ from Image















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Tightening longue         0.6 Nm           Mounting method         insented, serveved           Souring pontant         gold plated           Family construction form         M12           Tread         ME2 I           Design         A.           Souring Contract         Copper alloy           Authorities of corrupated furbe (informal O)         10 mm           Solid 2         PUR           Width across fitts         SW13           Solid 2         SW19           Commercial dist         Copper alloy           CCLASS 6.0         20 mm           CCLASS 6.1         20 mm           CLASS 6.1         20 mm           CL	Cable length	30 m
	Side 1	
Casting contact	Tightening torque	0,6 Nm
Family construction form M12 Thread M12 x 1  Joining M12 x 1  Joining A M2  A M4 Aderial contact Cooperality  Material PUR  Material PUR  Material PUR  Material PUR  Site 2  Stripping length (facket) 20 mm  Conting contact Give (Ex IEC 60529)  Site 2  Stripping length (facket) 20 mm  Commercial data  Copper allay  Commercial data  CLASS-6.0 2779218  CLASS-6.0 2779218  CLASS-6.1 2779218  CLASS-6.0 2779218  CLASS-6.0 2779218  CLASS-6.0 2779218  CLASS-8.0 2709311  CLASS-8.0 2709311  CLASS-8.0 2709311  CLASS-8.0 2709311  CLASS-1.1 2709311  CLASS-1.1 2709311  CLASS-1.1 2709311  CLASS-1.2 2709311  CLASS-1.2 2709311  CLASS-1.3 2709311  CLASS-1.3 2709311  CLASS-1.4 2709311  CLASS-1.5 20 2009311  CLASS-1.5 2009311  CLASS	Mounting method	inserted, screwed
Mile	Coating contact	gold plated
Description   Communication	Family construction form	M12
A	Thread	M12 x 1
A	suitable for corrugated tube (internal Ø)	10 mm
Material contact         Copper alloy           Valaterial         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Side 2         Side 2           Sirpiping length (lacket)         20 mm           Coating contact         gold plated           Material contact         Copper alloy           CCLASS 6.0         27279218           CCLASS 6.1         27279218           CCLASS 7.0         27279218           CCLASS 8.0         2779218           CCLASS 9.0         27060311           CCLASS 9.0         27060311           CCLASS 1.1.1         27060311           CCLASS 1.2.0         27060311           CCLASS 1.1.1         27060311           CCLASS 1.2.0         27060311           CCLASS 1.1.1         4048679325844           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         250 V           Operating voltage AC max.         250 V           Operating voltage AC (UL-listed)         30 V           Operating voltage DC max.         250 V           Operating voltage pc orticat max.         4 A	Coding	A
Waterial         PUR           Width across Italias         SW13           Spegre or protection (EN IEC 60529)         IPP65, IP66K, IP67           Side 2         PD5, IP66K, IP67           Sirrippin (apckn)         20 ond plated           Material contact         Copper alloy           Commercial data           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0         27060311           ECLASS-1.1         27060311           ECLASS-1.2.0         27060311           ECLASS-1.2.0         27060311           ECLASS-1.1         27060311           ECLASS-1.0         27060311           ECLASS-1.1         27060311           ECLASS-1.1         27060311           ECLASS-1.2.0         27060311           ECLASS-1.3.1         27060311           ECLASS-1.2.0         27060311           ECLASS-1.2.0         27060311           ECLASS-1.2.0         27060311           ECLASS-1.2.0         27060311           ECLASS-1.2.0         27060311           ECLASS-1.2.0         27060311	Material contact	Copper alloy
Degree of protection (EN IEC 60529)   IP65, IP66K, IP67	Material	
Side 2           Stripping length (lacken)         20 mm           Coating contact         gold plated           Valuation contact         Copper alloy           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060031           ECLASS-9.0         27060011           ECLASS-11.1         27060011           ECLASS-12.0         27060011           ECLASS-13.1         27060011           ECLASS-12.0         27060011           ETIM-5.0         EC001855           STIN         4040879325844           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         250 V           Operating voltage AC max.         250 V           Operating voltage AC (ILL-listed)         30 V <t< td=""><td>Width across flats</td><td>SW13</td></t<>	Width across flats	SW13
Side 2           Stripping length (lacken)         20 mm           Coating contact         gold plated           Valuation contact         Copper alloy           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060031           ECLASS-9.0         27060011           ECLASS-11.1         27060011           ECLASS-12.0         27060011           ECLASS-13.1         27060011           ECLASS-12.0         27060011           ETIM-5.0         EC001855           STIN         4040879325844           Packaging unit         1           Electrical data   Supply           Operating voltage AC max.         250 V           Operating voltage AC max.         250 V           Operating voltage AC (ILL-listed)         30 V <t< td=""><td>Degree of protection (EN IEC 60529)</td><td>IP65, IP66K, IP67</td></t<>	Degree of protection (EN IEC 60529)	IP65, IP66K, IP67
Coating contact   Gold plated	Side 2	
Coating contact   Gold plated	Stripping length (jacket)	20 mm
Material contact   Copper alloy		
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 ECLASS-10.1 27060311 ECLASS-11.1 27060311 ECLASS-11.1 27060311 ECLASS-12.0 27060311 ECLASS-12.0 27060311 ECLASS-12.0 27060311 ECLASS-12.0 17060311 ECLASS-12.0 17060311 ECLASS-12.0 27060311 ECLASS-13.0 ECOURS5 ECLASS-14.0 17060311 ECLASS-12.0 27060311 ECLASS-12.0 2706031 ECLA		обррог чло <i>у</i>
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ECLASS-10.1 27060311 ECLASS-12.0 27060311 ECLASS-12.0 12060311 ELECTIM-5.0 EC001855  Dustoms tariff number 85444290 GTIN 4048879325844 Packaging unit 1  Electrical data   Supply  Derating voltage AC max. 250 V Derating voltage AC max. 250 V Derating voltage AC full-listed) 30 V  Derating voltage AC (UL-listed) 30 V  Derating voltage AC (UL	ECLASS-8.0	27279218
ECLASS-11.1 27060311 ECLASS-12.0 27060311 ETIM-5.0 EC001855  substoms tariff number 85444290 3TIN 4048879325844 Packaging unit 1  Electrical data   Supply  Departing voltage AC max. 250 V  Deparating voltage AC max. 250 V  Deparating voltage DC max. 250 V  Deparating voltage DC (UL-listed) 30 V  Current operating per contact max. 4 A  Installation   Connection  Stripping length (jacket) 20 mm  Mounting set M12 x 1  Device protection   Electrical  Additional condition Depore 3 3  Rated surge voltage C (2,5 kV  Material group (IEC 60664-1)    Mechanical data   Material data  Coating forking in inckel plated  Material screw connection   Nickeled  Coating of fitting inckel plated  Material screw connection Zinc die-casting  Material screw connection Zinc die-casting	ECLASS-9.0	27060311
ECLASS-12.0 27060311 ETIM-5.0 EC001855  sustoms tariff number 85444290 367IN 4048879325844 Packaging unit 1  Electrical data   Supply  Deparating voltage AC max. 250 V  Deparating voltage AC max. 250 V  Deparating voltage AC (UL-listed) 30 V  Deparating voltage AC max. 4 A  Installation   Connection  Stripping length (jacket) 20 mm  Mounting set M12 x 1  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 2,5 kV  Material group (IEC 60664-1) 1  Mechanical data   Material data  Coating locking Nickeled  Coating locking Nickeled  Material gasket FKM  Locking material Zinc die-casting  Material screw connection Zinc die-casting  Material screw connection Zinc die-casting  Material screw connection Zinc die-casting	ECLASS-10.1	27060311
ETIM-5.0 EC001855  pustoms tariff number 85444290 3TIN 4048879325844  Packaging unit 1  Electrical data   Supply  Deperating voltage AC max. 250 V  Operating voltage PC (IUL-listed) 30 V  Operating voltage PC (IUL-listed) 40 PC	ECLASS-11.1	27060311
customs tariff number 85444290 GTIN 4048879325844 Packaging unit 1  Electrical data   Supply  Deprating voltage AC max. 250 V  Deprating voltage DC max. 250 V  Deprating voltage DC max. 250 V  Deprating voltage DC (UL-listed) 30 V  Durient operating per contact max. 4 A  Installation   Connection  Stripping length (jacket) 20 mm  Mounting set M12 x 1  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 2,5 kV  Material group (IEC 60664-1) I  Mechanical data   Material data  Coating locking Nickeled  Coating locking nickel plated  Material gasket FKM  Material gasket FKM  Material screw connection Zinc die-casting  Material screw connection Zinc die-casting	ECLASS-12.0	27060311
Additional condition protection degree and screwed Pollution Degree and Surge voltage and screwed Pollution Degree and screwed Pollution Pollutio	ETIM-5.0	EC001855
Packaging unit 1  Electrical data   Supply  Deparating voltage AC max. 250 V  Deparating voltage DC max. 250 V  Deparating voltage AC (UL-listed) 30 V  Deparating voltage DC (UL-listed) 30 V  Deparating voltage Installation   Connection V  Device protection   Electrical V  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 3,5 kV  Material group (IEC 60664-1) 1  Mechanical data   Material data  Deating locking Nickeled  Coating locking nickel plated  Material gasket FKM  Locking material Zinc die-casting  Material screw connection Zinc die-casting	customs tariff number	85444290
Electrical data   Supply  Operating voltage AC max. 250 V  Operating voltage DC max. 250 V  Operating voltage AC (UL-listed) 30 V  Operating voltage DC (UL-listed) 30 V  Operating voltage DC (UL-listed) 30 V  Ourrent operating per contact max. 4 A  Installation   Connection  Stripping length (jacket) 20 mm  Mounting set M12 x 1  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 2,5 kV  Material group (IEC 60664-1) I  Mechanical data   Material data  Coating locking Nickeled  Coating of fitting nickel plated  Material gasket FKM  Locking material Zinc die-casting  Material screw connection Zinc die-casting  Material screw connection Zinc die-casting	GTIN	4048879325844
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Deperating voltage DC max. 250 V Deperating voltage AC (UL-listed) 30 V Deperating voltage DC (UL-listed) 30 V Deperating voltage DC (UL-listed) 30 V Deperating per contact max. 4 A  Installation   Connection  Stripping length (jacket) 20 mm Mounting set M12 x 1  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 2,5 kV Material group (IEC 60664-1) I  Mechanical data   Material data  Coating locking Nickeled  Coating of fitting nickel plated  Material gasket FKM  Meterial screw connection Zinc die-casting  Material screw connection Zinc die-casting	Electrical data   Supply	
Deperating voltage DC max. 250 V Deperating voltage AC (UL-listed) 30 V Deperating voltage DC (UL-listed) 30 V Deperating voltage DC (UL-listed) 30 V Deperating per contact max. 4 A  Installation   Connection  Stripping length (jacket) 20 mm Mounting set M12 x 1  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 2,5 kV Material group (IEC 60664-1) I  Mechanical data   Material data  Coating locking Nickeled  Coating of fitting nickel plated  Material gasket FKM  Meterial screw connection Zinc die-casting  Material screw connection Zinc die-casting	Operating voltage AC max.	250 V
Operating voltage AC (UL-listed) 30 V Operating voltage DC (UL-listed) 30 V Ourrent operating per contact max. 4 A  Installation   Connection  Stripping length (jacket) 20 mm Mounting set M12 x 1  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3 Rated surge voltage 2,5 kV Material group (IEC 60664-1) I  Mechanical data   Material data  Coating locking Nickeled Coating of fitting nickel plated Material gasket FKM Outling material Zinc die-casting Material screw connection Zinc die-casting Material screw connection Zinc die-casting Material screw connection Zinc die-casting	Operating voltage DC max.	250 V
Operating voltage DC (UL-listed) 30 V Current operating per contact max. 4 A  Installation   Connection  Stripping length (jacket) 20 mm  Mounting set M12 x 1  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 2,5 kV  Material group (IEC 60664-1) I  Mechanical data   Material data  Coating locking Nickeled Coating of fitting nickel plated  Material gasket FKM  Material screw connection Zinc die-casting  Material screw connection Zinc die-casting	Operating voltage AC (UL-listed)	30 V
Installation   Connection  Stripping length (jacket) 20 mm  Mounting set M12 x 1  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 2,5 kV  Material group (IEC 60664-1) I  Mechanical data   Material data  Coating locking Nickeled  Coating of fitting nickel plated  Material gasket FKM  Locking material  Material screw connection Zinc die-casting  Material screw connection Zinc die-casting	Operating voltage DC (UL-listed)	30 V
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Mounting set M12 x 1  Device protection   Electrical  Additional condition protection degree inserted, screwed  Pollution Degree 3  Rated surge voltage 2,5 kV  Material group (IEC 60664-1) I  Mechanical data   Material data  Coating locking Nickeled  Coating of fitting nickel plated  Material gasket FKM  Locking material  Material screw connection Zinc die-casting		20 mm
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Rated surge voltage 2,5 kV  Material group (IEC 60664-1) I  Mechanical data   Material data  Coating locking Nickeled  Coating of fitting nickel plated  Material gasket FKM  Locking material Zinc die-casting  Material screw connection Zinc die-casting		
Material group (IEC 60664-1)  Mechanical data   Material data  Coating locking  Nickeled  Coating of fitting  nickel plated  Material gasket  FKM  Locking material  Zinc die-casting  Material screw connection  Zinc die-casting		
Mechanical data   Material data  Coating locking  Nickeled  Coating of fitting  nickel plated  Material gasket  FKM  Locking material  Zinc die-casting  Material screw connection  Zinc die-casting		
Coating locking  Nickeled  Coating of fitting  nickel plated  Material gasket  FKM  Locking material  Zinc die-casting  Material screw connection  Zinc die-casting		
Coating of fitting nickel plated  Material gasket FKM  Locking material Zinc die-casting  Material screw connection Zinc die-casting	·	Waladad
Material gasket FKM  Locking material Zinc die-casting  Material screw connection Zinc die-casting		
Locking material Zinc die-casting  Material screw connection Zinc die-casting		
Material screw connection Zinc die-casting		
Mechanical data   Mounting data	Material screw connection	Zinc die-casting
	Mechanical data   Mounting data	



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Environmental characteristics   Climatic Operating temperature min.	
<u> </u>	
<u> </u>	-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 Strain relief	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	
wire arrangement	brown, black, blue, white
Cable identification	024
Cable Type	2
Jacket Color	yellow
Type of Certificate	cURus
Amount stranding	1
Stranding	4 wires twisted
wire arrangement	brown, black, blue, white
Cable weigth	42,68 g/m
Material jacket	PUR
Shore hardness jacket	85 ± 5 Shore A
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, silicone-free
Outer-diameter (jacket)	4,6 mm
Tolerance outer diameter (sheath)	±5%
Material wire insulation	PVC
Amount wires	4
Outer diameter insulation	1,25 mm
Outer diameter tolerance core insulation	±5%
Shore hardness wire insulation	43 ± 5 Shore D
Material properties wire insulation	good machinability
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, silicone-free
Amount strands (wire)	32
Diameter of single wires	0,1 mm
Conductor crosssection (wire)	0,34 mm <sup>2</sup>
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	3,6 A
Electrical resistance line constant wire	57 Ω/km @ 20 °C
AC withstand voltage (wire - wire)	2 kV @ 60 s
Power frequency withstand voltage (wire - jacket)	2 kV @ 60 s
Min. operating temperature (static)	-30 °C
Max. operating temperature (fixed)	80 °C
Operating temperature min. (dynamic)	-5 °C
Operating temperature max. (dynamic)	80 °C
Flame resistance	UL 1581 § 1090   UL 1581 § 1100 FT2   IEC 60332-2-2
chemical resistance	Good, application-related testing
ononingar robiotarioo	
Gasoline resistance	Good, application-related testing



Bending radius (fixed)	10 x Outer diameter
Bending radius (dynamic)	15 x Outer diameter
No. of bending cycles (C-track)	2 Mio. @ 25 °C
Traversing distance (C-track)	5 m @ 25 °C   horizontal
Travel speed (C-track)	3,3 m/s @ 25 °C