

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

PUR 3x0.34 bk UL/CSA 6m

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

Female 90° M12, 3-pole

2× LED (PNP)

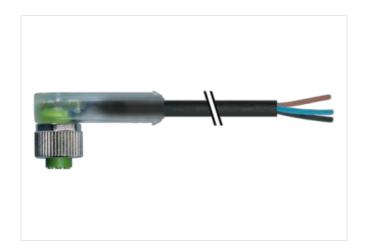
Art-No. 7005 - M12 Lite - (plastic hexagonal screw) on request

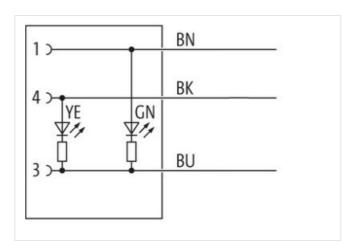
Plastic housings with good resistance against chemicals and oils.

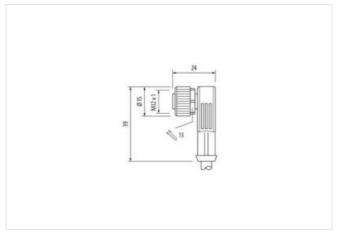
The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request.

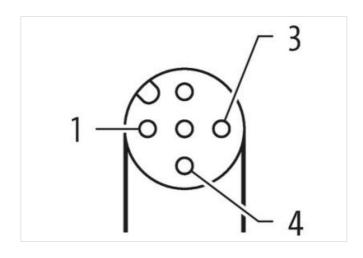
## **Link to Product**

## Illustration









Product may differ from Image













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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) 1  Mechanical data   Material data  Coating locking Nickeled  Coating of fitting nickel plated  Material gasket FKM  Locking material Signature (Electrical) 2  Zinc die-casting	Cable length	6 m	
Mauring method   Inserted, screwed	Side 1		
Mauring method   Inserted, screwed	Tightening torque	0.6 Nm	
Coaling contact         gold palede           Thread         M12 x 1           Thread         M12 x 1           suitable for corrugated tube (internal 0)         10 mm           Coding         A           Material contract         Copper alloy           Material contract         Suppose alloy           Material contract         SW13           Begree of princetion (EN IEC 60529)         IPIS, IP6K, IP67           Sirlog and (gasket)         20 mm           Coating contract         gold plated           Commercial date           ECLASS 6.0         27273218           ECLASS 7.0         27273218           ECLASS 8.0         27273218           ECLASS 9.0         27279218           ECLASS 9.0         27060311           ECLASS 9.0         27060311           ECLASS 9.0         27060311           ECLASS 9.0         27060311           ECLASS 9.0         2001815           ECLASS 9.0         2001815           CODIASS 9.0         200181		· · · · · · · · · · · · · · · · · · ·	
Family construction form M12 mm  Coding A  Milestrat control (Milestration of Milestration of			
Timend         M12 x 1           subtable for corrugated tube (internal O)         10 mm           Coding         A           Material contact         Copper alloy           Material contact         COPP           Width a conset faits         SW13           Degree of protection (EN IEC 60529)         SW13           Stripping length (jacker)         20 mm           Costing contact         gold plated           Commercial date           ECLASS 6.0         22779218           ECLASS 7.0         27279218           ECLASS 7.0         27279218           ECLASS 8.0         2779218           ECLASS 9.0         27060311           ECLASS 9.0			
subble for corrugated tube (internal Ø)         10 mm           Coding         A           Material         Copperativy           Material         PUR           Width across fists         SW13           Degree of protection (EN IEC 60529)         P65, IP66K, IP67           Side 2         ***********************************			
Coding         A           Matterial contact         Coppor alloy           Marterial         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP05, IP06, IP67           Side 2         SW13           Singing langth (jacker)         20 mm           Coating contact         gold plated           Commercial date         Commercial cate           ECLASS 6.0         27279218           ECLASS 6.1         27279218           ECLASS 7.0         27279218           ECLASS 8.0         27279218           ECLASS 9.0         27279218           ECLASS 9.0         27060311           ECLASS 1.1         27060311           ECLASS 1.2         27060311           ECLASS 1.3         27060311           ECLASS 1.1         27060311           ECLASS 1.2         27060311           ECLASS 1.3         27060311           ECLASS 1.5         27060311           ECLASS 1.6         27060311           ECLASS 1.7         27060311           ECLASS 1.8         27000311           ECLASS 1.9         27060311           ECLASS 1.1         27060311 <td< td=""><td></td><td></td></td<>			
Material contact         Capper alloy           Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IPP61, P697           Sfle 2         Stripping length (jacket)           Stripping length (jacket)         20 mm           Coding contact         gold plated           Commercial data         Commercial data           ECLASS-8.0         27279218           ECLASS-9.1         27279218           ECLASS-9.0         27279218           ECLASS-9.0         27279218           ECLASS-9.1         27279218           ECLASS-9.1         27060311           ECLASS-9.1         27060311           ECLASS-9.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ECLASS-9.1         4048873204491           Packaging unit         1           Electrical data   Supply           Cereating voltage DC min.         18 V           Operating voltage DC min.         18 V           Operating voltage DC min.         18 V           Operating voltage DC min.         10 V           Operating			
Meterial         PUR           Width accoss flatis         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Side 2         Stripping length (flacket)         20 mm           Swipping length (flacket)         20 mm           Coating contact         gold plated           Coating contact           Coating contact contact contact           A Coperating voltage DC max.           Coperating voltage DC max.         A           Coperating voltage DC max.         A           Coperating voltage DC max.         A           Coperating voltage DC max.         A <th col<="" td=""><td></td><td></td></th>	<td></td> <td></td>		
With across flats         SW13           Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Side 2         Simple of protection (EN IEC 60529)         IP65, IP66K, IP67           Shipping length (jacket)         20 mm           Coaling contact         9old plated           Commercial data           ECLASS-6.0           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-9.0         27760311           ECLASS-9.0         2760311           ECLASS-1.1         27606311           ECLASS-1.2         27706311           ECLASS-1.2         27706311           ECLASS-1.2         27706311           ECLASS-1.2         27706311           ECLASS-1.2         27706311 <td></td> <td></td>			
Degree of protection (EN IEC 60829)         IP65, IP66K, IP67           Side 2           Stripping length (jacket)           Comme           Contract           BOLASS-6.0           ECLASS-6.0           ECLASS-6.1           27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-1.1         27060311           ECLASS-1.1         27060311           ECLASS-1.2.0         27060311           ECLASS-1.1.0         EC001855           ECLASS-1.1.0         EC001855           ECLASS-1.1.1         27060311           ECLASS-1.1.1         27060311           ECLASS-1.2.0         27060311           ECLASS-1.1.1         27060311           ECLASS-1.1.1         27060311           ECLASS-1.1.1         27060311           ECLASS-1.1.1         27060311           ECLASS-1.1.1         27060311           ECLASS-1.1.1         27060311 <t< td=""><td></td><td></td></t<>			
Side 2           Stripping langtht (jacket)         20 mm           Coating contact         gold plated           Commercial data         ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0         27060311           ECLASS-1.1.1         27060311           ECLASS-12.0         2727421           ECLASS-12.0         2727421 <th< td=""><td></td><td></td></th<>			
Coating contact         gold plated           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-11.1         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           Customs tariff number         85444290           GTIN         4048879204491           Packaging unit         1           Electrical data   Supply         Voperating voltage DC min.         18 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           Diagnosits         Situs indication LED         green, yellow           Installation   Connection         Mine plant   gaster   Mine plant   mine per contact max.         4 A           Device protection   Electrical         Additional condition protection degree         inserted, screwed           Pollution Degree         3         Rated surge voltage         0,8 V			
Coating contact         gold plated           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-11.1         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           Customs tariff number         85444290           GTIN         4048879204491           Packaging unit         1           Electrical data   Supply         Voperating voltage DC min.         18 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           Diagnosits         Situs indication LED         green, yellow           Installation   Connection         Mine plant   gaster   Mine plant   mine per contact max.         4 A           Device protection   Electrical         Additional condition protection degree         inserted, screwed           Pollution Degree         3         Rated surge voltage         0,8 V	Stripping length (jacket)	20 mm	
Commercial data           ECLASS 6.0         27279218           ECLASS 6.1         27279218           ECLASS 7.0         27279218           ECLASS 8.0         27279218           ECLASS 9.0         27060311           ECLASS 1.1         27060311           ECLASS 1.2.0         27060311           ECLASS 1.2.0         27060311           ECLASS 1.2.0         27060311           ECLASS 1.2.0         E001855           customs tariff number         85444290           GTIN         4048879204491           Packaging unit         1           Electrical datal Supply           Operating voltage DC         24 V           Operating voltage DC max.         30 V           Operating voltage DC max.         30 V           Operating voltage DC max.         4 A           Diagnosties           Status indication LED         green, yellow           Installation   Connection         M12 x           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Follution Degree         3           Rated surge voltage         0,8 kV           Mechanical data   M		gold plated	
ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ETIM-5.0         ECO01855           customs tariff number         85444290           GTIN         4048879204491           Packaging unit         1           Electrical data   Supply           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, yellow           Installation   Connection           Stripping length (jacket)         20 mm           Mounting set         Min x t           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rate agency letter Goose4-1         1	-		
ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879204491           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.         30 V           Operating voltage DC max.         4 A           Diagnostics         Status indication LED         green, yellow           Installation   Connection           Strippin length (jacket)         20 mm           Mounting set         M12 x 1           Device protection   Electrical           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         0.8 kV			



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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
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Cable	
Cable identification	623
Cable Type	2 (PUR/PVC)
Approval (cable)	UL (AWM-Style 20549/1731), CSA; CE conform
Cable weight [g/m]	35,97 g
Material wire	Cu wire, bare
Resistor (core)	max. 57 Ω/km (20 °C)
Single wire Ø (core)	0.1 mm
Construction (core)	42× 0.1 mm (multi-strand wire class 6)
Diameter (core)	3× 0.34 mm²
AWG	similar to AWG 22
Material wire isolation	PVC
Material property wire insulation	CFC-, cadmium-, silicone- and lead-free
Shore hardness wire isolation	43 ±5 D
Wire-Ø incl. isolation	1.25 mm ±5%
Color/numbering of wires	black similar to RAL 9005
Stranding combination	3 wires twisted
Shield	no no
Material jacket	PUR/PVC
Material property (jacket)	CFC-, halogen-, cadmium-, silicone- and lead-free, matt, low-adhesion, machine easy to process, abrasion-resistant, hydrolysis and microbial resistant
Shore hardness jacket	80 ±5 A (PVC-under jacket); 85 ±5 A (PUR-jacket)
Outer-Ø (jacket)	4.3 mm ±5%
Color jacket	black
chemical resistance	good resistance to oil, gasoline and chemicals
Nominal voltage	UL 300 V AC
Test voltage	2000 V AC
Current load capacity	to DIN VDE 0298-4
Temperature range (fixed)	-30+80 °C
Temperature range (mobile)	-5+80 °C
Bending radius (fixed)	10× outer Ø
Bending radius (dynamic)	15× outer Ø
No. of bending cycles (C-track)	max. 2 Mio. (25 °C)
Travel speed (C-track)	max. 3.3 m/s
Acceleration (C-track)	max. 5 m/s <sup>2</sup>