

## M12 female 90° A-cod. with cable

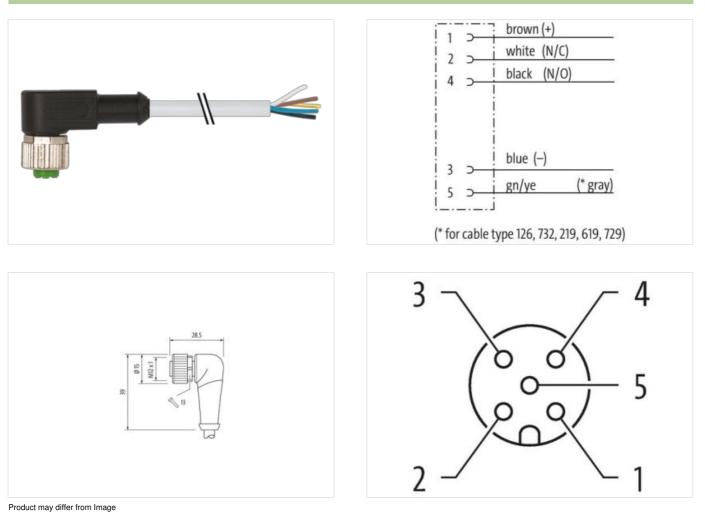
PUR 5x0.34 gy UL/CSA 3m

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

Female 90° M12, 5-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





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: 2024-05-19

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Widh across flats         SW13           Degree of protection (EN EC 60529)         PR05, PR0K, IP07           Commercial data         2273219           ECLASS-6.0         27273218           ECLASS-6.1         27273218           ECLASS-6.0         27273218           ECLASS-6.0         27273218           ECLASS-6.0         27273218           ECLASS-6.0         27273218           ECLASS-6.0         27060311           ECLASS-10.1         27060311           ECLASS-12.0         27060311           CALSS-12.0         27060311           ECLASS-12.0         27060311           DecLASS-12.0         27060311           ECLASS-12.0         27060311           DecLASS-12.0         2706031           Declass F12.0         2706031           Declass F12.0         2706031           Electrical data ISuppiy         0           Operating vatitage AC max.         125 V <th>Cable length</th> <th>3 m</th>	Cable length	3 m
Tightening torque0.6 NmMounting methodmeshed, scewedMounting methodmeshed, scewedThreadM12 x1autable for corruppado tube (internal (i))10 mmCodingAMatorialPURS, IPERS, IPER	Side 1	
Auturing method         inverted, screwed           Family construction form         M12           Framily construction form         M12 × 1           suitable for corrugaled tube (internal Q)         10 mm           Coding         A           Material         PUP           Width across flats         SW19           Degree of protection (EN EC 65050)         IPES, IPESK (IPE7           Commercial data         27279218           ECLASS 6.0         27279218           ECLASS 6.0         27279218           ECLASS 6.0         27279218           ECLASS 6.0         27279218           ECLASS 7.0         27279218           ECLASS 6.0         27090311           ECLASS 7.0         2700 <td></td> <td>0.6 Nm</td>		0.6 Nm
Family construction form         M12           Thread         M12 x 1           Solid for concipated tube (internal 0)         10 mm           Solid for         A           Maintal         PUR           With across faits         SW19           Degree of protection (EN IEC 60529)         IPES, IPEGK, IPE7           Commercial des         Commercial des           ECLASS 6.0         27279218           ECLASS 7.0         27206311           ECLASS 7.0         27060311           ECLASS 7.0         ECO01855           ECO01855         ECO01855           ECO01855         ECO01855           ECO01855         ECO01855           ECONTRID Concordiant         15           Echerical dals Suppo EC         Sol V      <		
Thread         M12 x 1           suitable for corrugated tube (internal 0)         10 mm           suitable for corrugated tube (internal 0)         A           Maternal         PUR           Worth across flux         SW13           Darger of protestion (EN EC 0529)         IP66, IP66K, IP67           Commercial data         ECLASS 4.0           ECLASS 4.0         27279218           ECLASS 4.0         27279218           ECLASS 4.0         27279218           ECLASS 4.0         2705031	-	·
suitable for corrugated tube (internal Ø)         10 mm           Caching         A           Marenal         PUR           With across flats         SW13           Degree of protection (IEN EC 6029)         IP66, IP67           Commercial dats         ZZ77218           ECLASS A.0         2Z77218           ECLASS A.0         ZZ77218           ECLASS A.0         ZZ770811           ECLASS A.0.1         Z7060311           ECLASS A.0.1         Z7060311           ECLASS A.0         ECO01985           Caching infit mumber         B444200           GTIN         4P4897205870           Packaging unit         1           Edericial dial Supply         ZSV           Operating voltage AC max.         125 V           Operating voltage AC Max.         125 V           Operating voltage AC (UL failed)         30 V           Operating voltage AC (UL failed)         30 V           Operating voltage AC (UL failed)         30 V           <	-	
Coding         A           Material         PUR           With arcsis flats         SW13           Degree of protection (EN EC 60529)         IPES, IPERK, IPE7           Commercial data         EELASS-6.0         22779218           ECLASS-6.0         22779218           ECLASS-6.0         22779218           ECLASS-6.0         22779218           ECLASS-6.0         22779218           ECLASS-6.0         22779218           ECLASS-6.0         22779218           ECLASS-8.0         2779218           ECLASS-8.0         2779218           ECLASS-8.0         27790311           ECLASS-1.1         27060311           ECLASS-1.2.0         27060317           Packaging unt         1           Electrical data [Supply         1           Electrical data [Supply         125 V		
Material         PUR           Width across flats         SW13           Degree of protection (EN EC 6528)         IP65, IP66K, IP67           Commercial data         ECLASS.6.0           ECLASS.6.1         27279218           ECLASS.7.0         27279218           ECLASS.6.1         27279218           ECLASS.7.0         27279218           ECLASS.7.0         27279218           ECLASS.7.0         27279218           ECLASS.7.0         27279218           ECLASS.7.0         27279218           ECLASS.7.0         27279218           ECLASS.7.1         27060311           ECLASS.7.2         27060311           ECLASS.7.1.1         27060311           ECLASS.7.1.1         27060311           ECLASS.7.1.1         27060311           ECLASS.7.1.1         27060311           ECLASS.7.2.2         27060311           ECLASS.7.2.2         27060311           ECLASS.7.2.2         27060311           ECLASS.7.2.2         27060311           ECLASS.7.2.2         27060311           Elextical data [Suppiv]         125 V           Operating voltage DC max.         125 V           Operating voltage DC max.         125 V<		
Widh across flats         SW13           Degree of protection (EN EC 60529)         PR05, PR0K, IP07           Commercial data         2273218           ECLASS-6.0         27273218           ECLASS-6.1         27273218           ECLASS-6.0         27060311           ECLASS-10.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           ECLASS-12.0         27060311           GUASS-12.0         27060311           ECLASS-12.0         27060311           DeclaSS-12.0         2706031           GUASS CA CAMAX         125 V           Operating values AC MAX         125 V           Operating values AC (UL-Listed)         30 V           Operating values AC (UL-Listed)	Material	
Degree of protection (EN IEC 60529)         IP65, IP66K, IP67           Commercial data         ECLASS 6.0         27279218           ECLASS 6.1         27279218         ECLASS 6.1         27279218           ECLASS 6.0         27279218         ECLASS 6.0         27279218           ECLASS 6.0         27279218         ECLASS 6.0         27279218           ECLASS 6.0         27279218         ECLASS 6.0         27060311           ECLASS 5.10.1         27060311         ECLASS 5.1         27060311           ECLASS 5.12.0         27060311         ECLASS 5.1         27060311           ECLASS 5.12.0         27060311         ECLASS 5.1         27060311           ECLASS 5.10         27060311         ECLASS 5.1         27060311           ECLASS 5.12.0         27060311         ECLASS 5.1         27060311           ECLASS 5.10         27060311         ECLASS 5.1         ECLASS 5.1         ECLASS 5.1           ECLASS 5.11         27060311         ECLASS 5.1		
Commercial data         EXILASS 6.0         27279218           ECLASS 6.1         27279218           ECLASS 7.0         27279218           ECLASS 7.0         27279218           ECLASS 8.0         27279218           ECLASS 7.0         27279218           ECLASS 8.0         27060311           ECLASS 1.1         27060311           ECLASS 12.0         27060311           Electrical data [Suppi         125 V           Oparating voltage DC max.         125 V           Oparating voltage DC max.         125 V           Oparating voltage DC (UL-listed)         30 V           Superce protectors Preseri		
EQLASS-6.0         27279218           EQLASS-5.1         27279218           EQLASS-6.0         27279218           EQLASS-6.0         27279218           EQLASS-6.0         27279218           EQLASS-6.0         27060311           EQLASS-6.1         27060311           EQLASS-10.1         27060311           EQLASS-11.1         27060311           EQLASS-12.0         2706031           EQLASS-12.0         2707           EQLASS-12.0         20           Courser operating voltage AC (max.         125 V           Operating voltage DC (Max.		
ECLASS 6.1         27279218           ECLASS 7.0         27279218           ECLASS 6.0         27279218           ECLASS 6.0         27060311           ECLASS 7.0         27060311           ECLASS 7.0         27060311           ECLASS 7.0         27060311           ECLASS 7.1         27060311           ECLASS 7.0         ECO01805           GORIN (UNDER AC MAX.         1           Packagin unit         1           Electrical data [Suppy         Coperating voltage AC max.           Operating voltage AC max.         125 V           Operating voltage AC (UL-Isleed)         30 V           Current operating aper contact max.         4 A           Installation   Connection         Mil 2 x 1           Device protection   Electrical         Mexinal           Parkingin c		07070010
EQLASS 7.0         27279218           EQLASS 8.0         27279218           EQLASS 8.0         27279218           EQLASS 8.0         27060311           EQLASS 9.0         27060311           EQLASS 9.0         27060311           EQLASS 9.0         27060311           EQLASS 1.1         27060311           EQLASS 1.2         27060311           EQLASS 1.2         27060311           EQLASS 1.2         27060311           EQLASS 1.2         27060311           ETM 5.0         EC001855           customs tarff number         8544290           GTN 1         404878205870           Packaging unit         1           Effectical data [ Supply            Operating voltage AC max.         125 V           Operating voltage AC max.         125 V           Operating voltage AC (UL-lisked)         30 V           Advitend condition protection degree         inse		
ECLASS-8.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECLASS-10.1         ECO01955           customs tariff number         85444290           Customs tariff number         85444290           Castom Control (Control (C		
ECLASS-9.0         27060311           ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ETM-5.0         ECO01855           customs tariff number         85444230           GTIN         404879205870           Packaging unit         1           Etertical data   Supply            Operating voltage DC max.         125 V           Operating voltage DC (UL-listed)         30 V           Device protection   Electrical         4 A           Mouting set         M12 x 1           Device protection   Electrical         4 A           Cating locling custed, screwed		
ECLASS-10.1         27060311           ECLASS-11.1         27060311           ECLASS-12.0         27060311           ECLASS-12.0         ECO01855           customs tariff number         8544280           GTIN         4048879205870           Packaging unit         1           Electrical data   Supply		
ECLASS-11.1         27060311           ECLASS-12.0         27060311           ETIM-5.0         EC001855           existions tariff number         8544290           GTIN         4048879205870           Packaging unit         1           Electrical data   Supply         Coperating voltage AC max.           Operating voltage AC max.         125 V           Operating voltage AC max.         125 V           Operating voltage AC (LL-listed)         30 V           Operating voltage DC (LL-listed)         30 V           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage         1,5 kV           Material group (IEC 60664-1)         1           Mechanical data   Material data         Zinc die casting           Coating of fitting <td< td=""><td></td><td></td></td<>		
ECLASS-12.0         27060311           ETIM-5.0         EC001855           customs tartif number         85444290           GTIN         4048979205870           Packaging unit         1           Electrical data   Supply		
ETIM-5.0       EC001855         customs tariff number       85444290         GTIN       4048879205870         Packaging unit       1         Electrical data   Supply          Operating voltage AC max.       125 V         Operating voltage AC max.       125 V         Operating voltage AC (UL-listed)       30 V         Operating voltage AC (UL-listed)       30 V         Current operating per contact max.       4 A         Installation   Connection          Bovice protection   Electrical          Additional condition protection degree       instarled, screwed         Pollution Degree       3         Rated surge voltage       1,5 kV         Material group (IEC 60684-1)       1         Mechanical data   Material data       Zinc die-casting         Mechanical data   Material data       Zinc die-casting         Mechanical data   Mounting data       Zinc die-casting         Mechanical data   Mounting data       Coding locking         Mounting method       inserted, screwed, Shaking protection         Environmental characteristics   Climatic       Zinc die-casting         Mechanical data   Mounting data       Zinc die-casting         Mounting method       inserted, screwed,		
customs tariff number         85444290           GTIN         4048879205870           Packaging unit         1           Electrical data   Supply         Deprating voltage AC max.           Operating voltage AC max.         125 V           Operating voltage AC max.         125 V           Operating voltage AC (LI-listed)         30 V           Current operating por contact max.         4 A           Installation Connection         M12 x 1           Device protection   Electrical         M12 x 1           Additional condition protection degree         inserted, screwed           Pollution Degree         3           Rated surge voltage AC         1,5 kV           Material group (IEC 60664-1)         1           Mechanical data   Material data         Coating of fitting           Coating of fitting         nickel plated           Locking matrial         Zinc die-casting           Material screw connection         Zinc die-casting           Mechanical data   Mounting data         Inserted, screwed, Shaking protection           Environmental characteristics   Climatic         Si °C           Operating of fitting         nickel plated           Locking material         Si °C           Operating temperature min.         -25 °C		
GTIN     4048879205870       Packaging unit     1       Electrical data   Supply     9       Operating voltage AC max.     125 V       Operating voltage AC max.     125 V       Operating voltage AC (UL-listed)     30 V       Operating voltage AC (UL-listed)     30 V       Current operating per contact max.     4 A       Installation   Connection     M12 x 1       Device protection   Electrical     Additional condition protection degree       Additional condition protection degree     1,5 kV       Material group (IEC 6064-1)     1       Ico dia group (IEC 6064-1)     1   <		
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Device protection   Electrical         Additional condition protection degree       inserted, screwed         Pollution Degree       3         Rated surge voltage       1,5 kV         Material group (IEC 60664-1)       I         Mechanical data   Material data       V         Coating locking       Nickeled         Coating locking       nickel plated         Locking material       Zinc die-casting         Material screw connection       Zinc die-casting         Material group (IEC 60664-1)       I         Definiting       nickel plated         Locking material       Zinc die-casting         Material screw connection       Zinc die-casting         Mounting method       inserted, screwed, Shaking protection         Environmental characteristics   Climatic       Polerating temperature min.         Operating temperature min.       -25 °C         Operating temperature max.       85 °C         Additional condition temperature range       depending on cable quality         Important installation notes       Material group cable quality	Installation   Connection	
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Locking material       Zinc die-casting         Material screw connection       Zinc die-casting         Mechanical data   Mounting data       inserted, screwed, Shaking protection         Mounting method       inserted, screwed, Shaking protection         Environmental characteristics   Climatic       Operating temperature min.         -25 °C       Operating temperature max.         Additional condition temperature range       depending on cable quality         Important installation notes       Important installation notes		
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		
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	-	-
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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		inserted screwed Shaking protection
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Operating temperature max.       85 °C         Additional condition temperature range       depending on cable quality         Important installation notes       Important installation notes		-25 °C
Additional condition temperature range depending on cable quality Important installation notes		
Important installation notes		
Note on strain relief Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.	Important installation notes	
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Note on bending radius	endangered by excessive bending forces.
Conformity	
Product standard	DIN EN 61076-2-101 (M12)
Cable	
Cable identification	225
Cable Type	2 (PUR/PVC)
Approval (cable)	UL (AWM-Style 20549/1731), CSA; CE conform
Cable weight [g/m]	54,78 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)	5× 0.34 mm <sup>2</sup>
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	br, bk, bl, wh, gnye longitudinally striped
Stranding combination	5 wires twisted around central filler
Shield	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)	5.0 mm ±5%
Color jacket	gray
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>

Note on bending radius

Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be

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