

## M12 male 90° / M12 female 90° A-cod.

PUR 5x0.34 gy UL/CSA+robot+drag ch. 0.3m

Male 90° - female 90°

M12 - M12, 5-pole

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

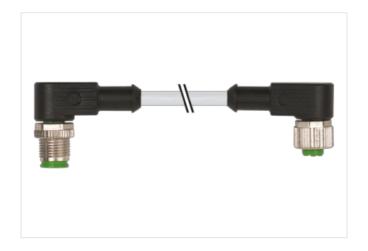
Plastic housings with good resistance against chemicals and oils.

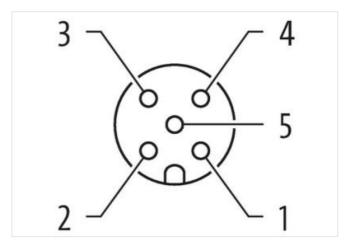
The resistance to aggressive media should be individually tested for your application. Further details on request.

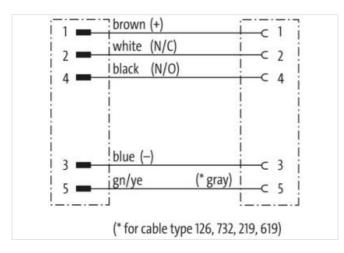
Further cable lengths on request.

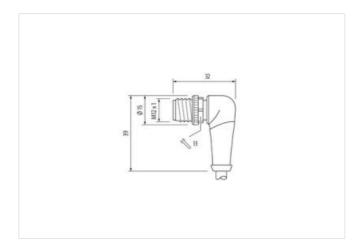
## **Link to Product**

## Illustration



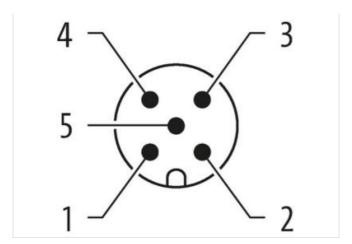


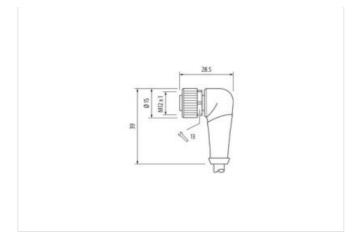






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Product may differ from Image













Cable length	0,3 m
Side 1	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
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)	IP66K, IP67
Side 2	
Tightening torque	0,6 Nm
Mounting method	inserted, screwed
Family construction form	M12
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)	IP66K, IP67
Electrical data   Supply	
Operating voltage AC max.	125 V
Operating voltage DC max.	125 V
Operating voltage AC (UL-listed)	30 V
Operating voltage DC (UL-listed)	30 V
Current operating per contact max.	4 A
Installation   Connection	
Mounting set	M12 x 1
Device protection   Electrical	
Additional condition protection degree	inserted, screwed



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Pollution Degree	3
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 Zinc die-casting
	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	
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
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.
Installation   Cable	
wire arrangement	brown, black, blue, white, green-yellow
Cable identification	255
Cable Type	5
Jacket Color	gray
Type of Certificate	cURus
Amount stranding	1
Stranding	5 wires around Core filler twisted
Filler	yes
wire arrangement	brown, black, blue, white, green-yellow
Cable weigth	41,8 g/m
Material jacket	PUR
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Shore hardness jacket	58 + 3 Shore D
Shore hardness jacket  Freedom from ingredients (jacket)	58 ± 3 Shore D
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Freedom from ingredients (jacket) Outer-diameter (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 5 mm
Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 5 mm ± 5 %
Freedom from ingredients (jacket) Outer-diameter (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 5 mm
Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 5 mm ± 5 %
Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  5 mm  ± 5 %  PP
Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  5 mm  ± 5 %  PP
Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  5 mm  ± 5 %  PP  5  1,25 mm
Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  5 mm ± 5 %  PP  5 1,25 mm ± 5 %
Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation Shore hardness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  5 mm ± 5 %  PP  5  1,25 mm ± 5 %  74 ± 3 Shore D
Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation Shore hardness wire insulation Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  5 mm  ± 5 %  PP  5  1,25 mm  ± 5 %  74 ± 3 Shore D  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Freedom from ingredients (jacket)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)  Material wire insulation  Amount wires  Outer diameter insulation  Outer diameter tolerance core insulation  Shore hardness wire insulation  Ingredient freeness wire insulation  Amount strands (wire)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  5 mm  ± 5 %  PP  5  1,25 mm  ± 5 %  74 ± 3 Shore D  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  42
Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation Shore hardness wire insulation Ingredient freeness wire insulation Amount strands (wire) Diameter of single wires	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  5 mm ± 5 %  PP  5  1,25 mm ± 5 %  74 ± 3 Shore D  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 42  0,1 mm
Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation Shore hardness wire insulation Ingredient freeness wire insulation Amount strands (wire) Diameter of single wires Conductor crosssection (wire)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  5 mm ± 5 %  PP  5  1,25 mm ± 5 %  74 ± 3 Shore D  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  42  0,1 mm  0,34 mm²
Freedom from ingredients (jacket)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)  Material wire insulation  Amount wires  Outer diameter insulation  Outer diameter tolerance core insulation  Shore hardness wire insulation  Ingredient freeness wire insulation  Amount strands (wire)  Diameter of single wires  Conductor crosssection (wire)  Material conductor wire	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  5 mm ± 5 %  PP  5  1,25 mm ± 5 %  74 ± 3 Shore D  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 42  0,1 mm  0,34 mm²  Stranded copper wire, bare
Freedom from ingredients (jacket)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)  Material wire insulation  Amount wires  Outer diameter insulation  Outer diameter tolerance core insulation  Shore hardness wire insulation  Ingredient freeness wire insulation  Amount strands (wire)  Diameter of single wires  Conductor crosssection (wire)  Material conductor wire  Conductor type (wire)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  5 mm ± 5 %  PP  5  1,25 mm ± 5 %  74 ± 3 Shore D  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  42  0,1 mm  0,34 mm²  Stranded copper wire, bare  strand class 6
Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation Outer diameter insulation Shore hardness wire insulation Ingredient freeness wire insulation Amount strands (wire) Diameter of single wires Conductor crosssection (wire) Material conductor wire Conductor type (wire) Nominal voltage AC max.	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  5 mm ± 5 %  PP  5 1,25 mm ± 5 %  74 ± 3 Shore D  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  42 0,1 mm 0,34 mm²  Stranded copper wire, bare strand class 6 300 V
Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation Shore hardness wire insulation Ingredient freeness wire insulation Amount strands (wire) Diameter of single wires Conductor crosssection (wire) Material conductor wire Conductor type (wire) Nominal voltage AC max. Current load capacity (standard)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  5 mm ± 5 % PP  5 1,25 mm ± 5 % 74 ± 3 Shore D lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  42 0,1 mm 0,34 mm² Stranded copper wire, bare strand class 6 300 V to DIN VDE 0298-4
Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation Shore hardness wire insulation Ingredient freeness wire insulation Amount strands (wire) Diameter of single wires Conductor crosssection (wire) Material conductor wire Conductor type (wire) Nominal voltage AC max. Current load capacity (standard) Current load capacity min. wire	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  5 mm  ± 5 %  PP  5  1,25 mm  ± 5 %  74 ± 3 Shore D  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  42  0,1 mm  0,34 mm²  Stranded copper wire, bare  strand class 6  300 V  to DIN VDE 0298-4  4,5 A
Freedom from ingredients (jacket)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)  Material wire insulation  Amount wires  Outer diameter insulation  Outer diameter tolerance core insulation  Shore hardness wire insulation  Ingredient freeness wire insulation  Amount strands (wire)  Diameter of single wires  Conductor crosssection (wire)  Material conductor wire  Conductor type (wire)  Nominal voltage AC max.  Current load capacity (standard)  Current load capacity min. wire  Electrical resistance line constant wire	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  5 mm  ± 5 %  PP  5  1,25 mm  ± 5 %  74 ± 3 Shore D  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  42  0,1 mm  0,34 mm²  Stranded copper wire, bare  strand class 6  300 V  to DIN VDE 0298-4  4,5 A  60 Ω/km @ 20 °C
Freedom from ingredients (jacket)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)  Material wire insulation  Amount wires  Outer diameter insulation  Outer diameter tolerance core insulation  Shore hardness wire insulation  Ingredient freeness wire insulation  Amount strands (wire)  Diameter of single wires  Conductor crosssection (wire)  Material conductor wire  Conductor type (wire)  Nominal voltage AC max.  Current load capacity (standard)  Current load capacity min. wire  Electrical resistance line constant wire  AC withstand voltage (wire - wire)  Power frequency withstand voltage (wire -	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  5 mm  ± 5 %  PP  5 1,25 mm  ± 5 %  74 ± 3 Shore D  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  42 0,1 mm 0,34 mm²  Stranded copper wire, bare  strand class 6 300 V  to DIN VDE 0298-4 4,5 A 60 Ω/km @ 20 °C 2,5 kV @ 60 s



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	Good, application-related testing   DIN EN 60811-404
Bending radius (fixed)	5 x Outer diameter
Bending radius (dynamic)	10 x Outer diameter
No. of bending cycles (C-track)	10 Mio. @ 25 °C
Traversing distance (C-track)	5 m @ 25 °C   horizontal
Travel speed (C-track)	3,3 m/s @ 25 °C
No. of torsion cycles	1 Mio.
Torsion stress	± 360 °/m
Torsion speed	35 cycles/min
Commercial data	
customs tariff number	85444290
Packaging unit	1