

## M12 male 90° / M12 female 0° A-cod.

PUR 5x0.34 bk UL/CSA+drag ch. 30m

Male 90° – female straight

M12 - M12, 5-pole

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

Plastic housings with good resistance against chemicals and oils.

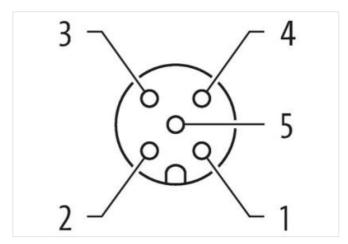
The resistance to aggressive media should be individually tested for your application. Further details on request.

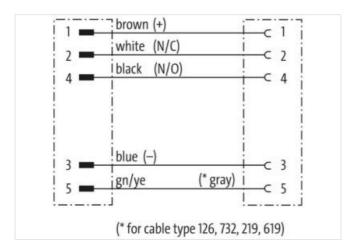
Further cable lengths on request.

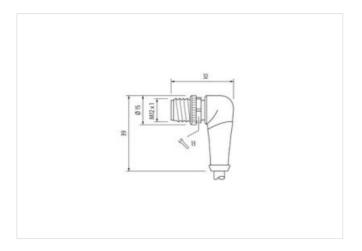
## **Link to Product**

## Illustration





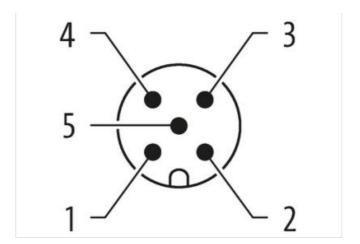






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Product may differ from Image



Cable length





30 m







Side 1  Tightening torque  Mounting method  Family construction form  Thread  suitable for corrugated tube (internal Ø)  Coding  Material  Width across flats	0,6 Nm inserted, screwed M12 M12 x 1 10 mm A PUR SW13 IP66K, IP67
Mounting method Family construction form Thread suitable for corrugated tube (internal Ø) Coding Material Width across flats	inserted, screwed  M12  M12 x 1  10 mm  A  PUR  SW13  IP66K, IP67
Family construction form Thread suitable for corrugated tube (internal Ø) Coding Material Width across flats	M12 x 1 10 mm  A PUR SW13 IP66K, IP67
Thread suitable for corrugated tube (internal Ø) Coding Material Width across flats	M12 x 1  10 mm  A  PUR  SW13  IP66K, IP67
suitable for corrugated tube (internal Ø)  Coding  Material  Width across flats	10 mm A PUR SW13 IP66K, IP67
Coding Material Width across flats	PUR SW13 IP66K, IP67
Material Width across flats	PUR SW13 IP66K, IP67
Width across flats	SW13 IP66K, IP67
	IP66K, IP67
D ( ) (ENLIEG 00500)	
Degree of protection (EN IEC 60529)	0,6 Nm
Side 2	0,6 Nm
Tightening torque	
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
Commercial data	
ECLASS-6.0	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
customs tariff number	85444290
GTIN	4048879702720
Packaging unit	1
Electrical data   Supply	
Operating voltage AC max.	125 V
Operating voltage DC max.	125 V

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Operating voltage AC (UL-listed)	30 V
Operating voltage DC (UL-listed)	30 V
Current operating per contact max.	4 A
Installation   Connection	
•	M12 x 1
Mounting set	IVII Z X I
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Material group (IEC 60664-1)	
Mechanical data   Material data	
Coating locking	Nickeled
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	,, yr
·	05.00
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	<b>Attention:</b> Observe the permissible bending radii when laying cables, as the IP protection class can be endangered by excessive bending forces.
Installation   Cable	
Installation   Cable Cable identification	635
	635 3
Cable identification	
Cable identification Cable Type	3
Cable identification  Cable Type  Jacket Color	3 black
Cable identification Cable Type Jacket Color Type of Certificate	3 black cURus
Cable identification Cable Type Jacket Color Type of Certificate Amount stranding	3 black cURus 1
Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding	3 black cURus 1 5 wires around Core filler twisted
Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  Filler	3 black cURus 1 5 wires around Core filler twisted yes
Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  Filler  wire arrangement	3 black cURus 1 5 wires around Core filler twisted yes brown, black, blue, white, green-yellow
Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  Filler  wire arrangement  Traversing distance (C-track)	3 black cURus 1 5 wires around Core filler twisted yes brown, black, blue, white, green-yellow 10 m @ 25 °C   horizontal 41,8 g/m PUR
Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  Filler  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  Shore hardness jacket	black cURus  1 5 wires around Core filler twisted yes brown, black, blue, white, green-yellow 10 m @ 25 °C   horizontal 41,8 g/m PUR 90 ± 5 Shore A
Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  Filler  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)	black cURus  1 5 wires around Core filler twisted yes brown, black, blue, white, green-yellow 10 m @ 25 °C   horizontal 41,8 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  Filler  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)	black cURus  1 5 wires around Core filler twisted yes brown, black, blue, white, green-yellow 10 m @ 25 °C   horizontal 41,8 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 4,8 mm
Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  Filler  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)	black cURus  1 5 wires around Core filler twisted  yes brown, black, blue, white, green-yellow  10 m @ 25 °C   horizontal  41,8 g/m  PUR  90 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  4,8 mm  ± 5 %
Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  Filler  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)  Material wire insulation	black cURus  1 5 wires around Core filler twisted yes brown, black, blue, white, green-yellow  10 m @ 25 °C   horizontal  41,8 g/m PUR  90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free 4,8 mm ± 5 % PP
Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  Filler  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)	black cURus  1 5 wires around Core filler twisted yes brown, black, blue, white, green-yellow 10 m @ 25 °C   horizontal 41,8 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 4,8 mm ± 5 % PP
Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  Filler  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)  Material wire insulation  Amount wires  Outer diameter insulation	black cURus  1 5 wires around Core filler twisted yes brown, black, blue, white, green-yellow 10 m @ 25 °C   horizontal 41,8 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free 4,8 mm ± 5 % PP 5 1,25 mm
Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  Filler  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  Shore hardness jacket  Freedom from ingredients (jacket)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)  Material wire insulation  Amount wires  Outer diameter insulation  Outer diameter tolerance core insulation	black cURus  1 5 wires around Core filler twisted  yes brown, black, blue, white, green-yellow  10 m @ 25 °C   horizontal  41,8 g/m  PUR  90 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free 4,8 mm  ± 5 %  PP  5  1,25 mm  ± 5 %
Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  Filler  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  Shore hardness jacket  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	black cURus  1 5 wires around Core filler twisted yes brown, black, blue, white, green-yellow 10 m @ 25 °C   horizontal 41,8 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 4,8 mm ± 5 % PP 5 1,25 mm ± 5 % 70 ± 5 Shore D
Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  Filler  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  Shore hardness jacket  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	black cURus  1 5 wires around Core filler twisted yes brown, black, blue, white, green-yellow  10 m @ 25 °C   horizontal 41,8 g/m PUR  90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 4,8 mm ± 5 % PP  5 1,25 mm ± 5 % 70 ± 5 Shore D lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  Filler  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  Shore hardness jacket  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)	black cURus  1 5 wires around Core filler twisted yes brown, black, blue, white, green-yellow  10 m @ 25 °C   horizontal  41,8 g/m PUR  90 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 4,8 mm ± 5 % PP  5 1,25 mm ± 5 % 70 ± 5 Shore D  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 42
Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  Filler  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  Shore hardness jacket  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	black cURus  1 5 wires around Core filler twisted yes brown, black, blue, white, green-yellow  10 m @ 25 °C   horizontal  41,8 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 4,8 mm ± 5 % PP 5 1,25 mm ± 5 % 70 ± 5 Shore D lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 42 0,1 mm
Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  Filler  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  Shore hardness jacket  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)	black cURus  1 5 wires around Core filler twisted yes brown, black, blue, white, green-yellow  10 m @ 25 °C   horizontal  41,8 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 4,8 mm ± 5 % PP  5 1,25 mm ± 5 % 70 ± 5 Shore D lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 42 0,1 mm 0,34 mm²
Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  Filler  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  Shore hardness jacket  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	black cURus  1  5 wires around Core filler twisted yes brown, black, blue, white, green-yellow  10 m @ 25 °C   horizontal  41,8 g/m PUR  90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 4,8 mm ± 5 % PP  5  1,25 mm ± 5 % 70 ± 5 Shore D lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 42 0,1 mm 0,34 mm² Stranded copper wire, bare
Cable identification  Cable Type  Jacket Color  Type of Certificate  Amount stranding  Stranding  Filler  wire arrangement  Traversing distance (C-track)  Cable weigth  Material jacket  Shore hardness jacket  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)	black cURus  1 5 wires around Core filler twisted yes brown, black, blue, white, green-yellow  10 m @ 25 °C   horizontal  41,8 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 4,8 mm ± 5 % PP  5 1,25 mm ± 5 % 70 ± 5 Shore D lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 42 0,1 mm 0,34 mm²

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Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	4,5 A
Electrical resistance line constant wire	57 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
UV resistance	DIN EN ISO 4892-2 A
Flame resistance	UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2
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
Travel speed (C-track)	10 Mio. @ 25 °C
No. of torsion cycles	2 Mio.
Torsion stress	± 180 °/m
Torsion speed	35 cycles/min