

## M12 male 0° / MSUD valve plug A-18mm

PUR 5x0.34 bk UL/CSA+drag ch. 1m

## **MSUD**

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

Form A (18 mm) - M12, male straight

24 V DC ±25%

LED (yellow/green)

for pressure switches

Attention: Contact carrier turned to 180°!

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

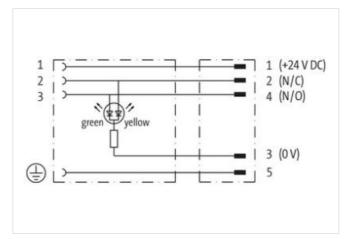
Further cable lengths on request.

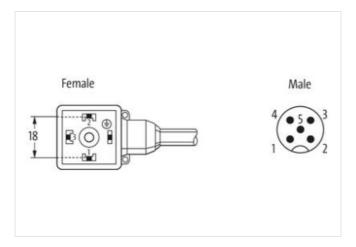
Plastic housings with good resistance against chemicals and oils.

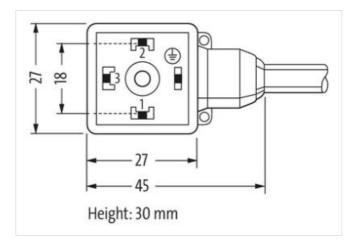
## **Link to Product**

## Illustration



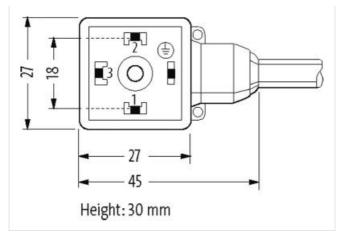








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Product may differ from Image



Cable length	1 m
Side 1	
Tightening torque	0,4 Nm
Family construction form	MSUD
Thread	M3
Material	PUR
Degree of protection (EN IEC 60529)	IP67
Side 2	
Tightening torque	0,6 Nm
Family construction form	M12
Thread	M12 x 1
suitable for corrugated tube (internal Ø)	10 mm
Material	PBT
Width across flats	SW13
Degree of protection (EN IEC 60529)	IP67
Commercial data	
ECLASS-6.0	27279218
ECLASS-7.0	27279218
ECLASS-8.0	27279218
ECLASS-9.0	27060311
ECLASS-10.1	27060312
ECLASS-11.1	27060312
ECLASS-12.0	27060312
ETIM-5.0	EC001855
customs tariff number	85444290
GTIN	4048879333665
Packaging unit	1
Electrical data   Supply	
Operating voltage DC	24 V
Operating voltage DC min.	18 V
Operating voltage DC max.	30 V
Current operating per contact max.	4 A

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: 2024-05-06



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Current consumption max.	15 mA
Diagnostics	
Status indication LED	green, yellow
	g.com, your
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	0,8 kV
Material group (IEC 60664-1)	I
Mechanical data   Material data	
Coating locking	Nickeled
Color housing	black
Material gasket	PUR
Material housing	Plastic
Locking material	Zinc die-casting
Mechanical data   Mounting data	
Mounting method	inserted, screwed
Environmental characteristics   Climatic	
	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	
Cable identification	635
Cable Type	3
Cable Type  Jacket Color	3 black
Jacket Color	black
Jacket Color Type of Certificate	black cURus
Jacket Color Type of Certificate Amount stranding	black cURus 1
Jacket Color Type of Certificate Amount stranding Stranding	black cURus 1 5 wires around Core filler twisted
Jacket Color Type of Certificate Amount stranding Stranding Filler	black cURus 1 5 wires around Core filler twisted yes
Jacket Color Type of Certificate Amount stranding Stranding Filler wire arrangement	black cURus 1 5 wires around Core filler twisted yes brown, black, blue, white, green-yellow
Jacket Color Type of Certificate Amount stranding Stranding Filler wire arrangement Traversing distance (C-track)	black cURus 1 5 wires around Core filler twisted yes brown, black, blue, white, green-yellow 10 m @ 25 °C   horizontal
Jacket Color Type of Certificate Amount stranding Stranding Filler wire arrangement Traversing distance (C-track) Cable weigth	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
Jacket Color Type of Certificate Amount stranding Stranding Filler wire arrangement Traversing distance (C-track) Cable weigth Material 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
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
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
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
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 %
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, silicone-free 4,8 mm ± 5 % PP
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	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
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, silicone-free 4,8 mm ± 5 % PP 5 1,25 mm
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, silicone-free  4,8 mm ± 5 %  PP  5  1,25 mm ± 5 %
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 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
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
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
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
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



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