

## M12 male 0° A-cod. / MSUD valve plug CI-9.4mm

PUR 3x0.75 bk UL/CSA+drag ch. 0.6m

**MSUD** 

Form CI (9.4 mm) - M12, male straight

110 V AC/DC ±10%

LED and suppression

Further cable lengths on request.

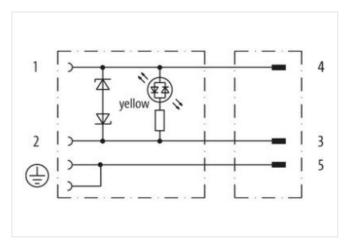
Plastic housings with good resistance against chemicals and oils.

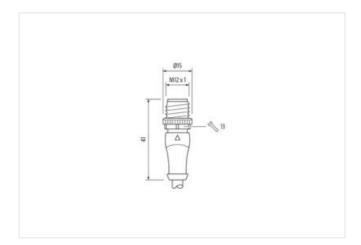
The resistance to aggressive media should be individually tested for your application. Further details on request.

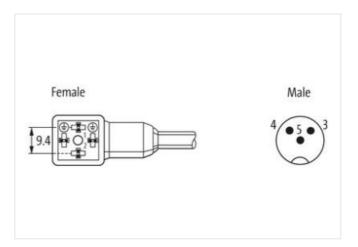
## **Link to Product**

## Illustration



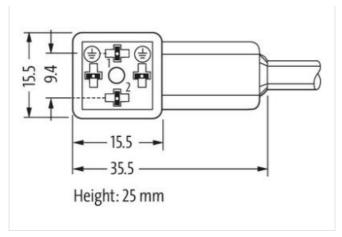








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Product may differ from Image











Family construction form         M12           Thread         M3           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP67           Side 2           Tightening torque         0,6 Nm           Thread         M12 x 1           Degree of protection (EN IEC 60529)         IP67           Commercial data           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060312           ECLASS-1.1         27060312           ECLASS-1.2.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ECLASS-12.0         27060312           ECLASS-12.0         49489342711           Packaging unit         1           Electrical data         Capacity CX         20 ms           Electrical data   Supply           Operating voltage AC min.         99 V           Operating voltage AC max.         121 V	Cable length	0,6 m
Family construction form M12 Thread M3 Width across flats SW13 Degree of protection (EN IEC 60529) IP67  Side 2 Tightening torque 0,6 Nm Thread M12 x 1 Degree of protection (EN IEC 60529) IP67  Commercial data  ECLASS-6.0 27279218 ECLASS-6.1 27279218 ECLASS-7.0 27279218 ECLASS-7.0 27279218 ECLASS-9.0 27060312 ECLASS-1.1 27060312 ECLASS-1.1 27060312 ECLASS-1.1 27060312 ECLASS-1.1 27060312 ECLASS-1.1 1 27060312 ECLASS-1.1 1 27060312 ECLASS-1.1 1 27060312 ECLASS-1.2 0 27060312 ECLASS-1.1 1 27060312 ECLASS-1.2 0 27060312 ECLASS-1.3 1 27060312 ECLASS-1.4 27060312 ECLASS-1.5 27060312 E	Side 1	
Midh across flats   SW13     Degree of protection (EN IEC 60529)   IP67     Side 2	Tightening torque	0,4 Nm
Side 2	Family construction form	M12
Degree of protection (EN IEC 60529)         IP67           Side 2         If planting torque         0,6 Nm           Thread         M12 x 1           Degree of protection (EN IEC 60529)         IP67           Commercial data           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060312           ECLASS-10.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ECLASS-12.0         ECO1855           ECLASS-12.0         ECO1855           ECLASS-12.0         ECLASS-12.0         ECLASS-12.0           ECLASS-12.0         ECLASS-12.0         ECLASS-12.0         ECLASS-12.0           ECLASS-12.0         ECLASS-12.0         ECLASS-12.0         ECLASS-12.0         ECLASS-12.0         ECLASS-12.0         ECLASS-12.0         ECLASS-12.0         ECLASS-12.0         ECLASS-12.0         ECLASS-12.0         ECLASS-12.0         ECLASS-12.0         ECLASS-12.0         ECLASS-12.0         ECLASS-12.0         ECLASS-12.0         ECLASS-12.0         ECLASS-12.0         ECLA	Thread	M3
Side 2           Tightening torque         0,6 Nm           Thread         M12 x 1           Degree of protection (EN IEC 60529)         IP67           Commercial data           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-9.0         27060312           ECLASS-9.0         27060312           ECLASS-10.1         27060312           ECLASS-12.0         27060312           ECLASS-12.0         27060312           ECLASS-12.0         27060312           ECLASS-12.0         27060312           ECLASS-12.0         4048879342711           Packaging unit         1           Electrical data         1           Capacity CX         20 ms           Electrical data   Supply           Operating voltage AC min.         99 V           Operating voltage AC min.         121 V	Width across flats	SW13
Tightening torque 0,6 Nm  Thread M12 x 1 Degree of protection (EN IEC 60529) IP67  Commercial data  ECLASS-6.0 27279218 ECLASS-6.1 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27060312 ECLASS-9.0 27060312 ECLASS-10.1 27060312 ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ECLASS-12.0 27060312 ECLASS-12.0 27060312 ECLASS-12.0 27060312 ECLASS-12.0 ECO01855 EUSTON BERTHIN BER	Degree of protection (EN IEC 60529)	IP67
Thread	Side 2	
Degree of protection (EN IEC 60529)         IP67           Commercial data         ECLASS-6.0         27279218           ECLASS-6.1         27279218         27279218           ECLASS-7.0         27279218         27279218           ECLASS-8.0         27279218         27060312           ECLASS-9.0         27060312         27060312           ECLASS-10.1         27060312         27060312           ECLASS-12.0         27060312         27060312           ECIMS-5.1.0         EC001855         2010000           Customs tariff number         85444290         371N           GTIN         4048879342711         4048879342711           Packaging unit         1         1           Electrical data         20 ms         20 ms           Electrical data   Supply         20 porating voltage AC         110 V           Operating voltage AC min.         99 V           Operating voltage AC min.         121 V	Tightening torque	0,6 Nm
Commercial data           ECLASS-6.0         27279218           ECLASS-6.1         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060312           ECLASS-10.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ETIM-5.0         EC001855           customs tarriff number         85444290           GTIN         4048879342711           Packaging unit         1           Electrical data         Capacity CX         20 ms           Electrical data   Supply         Superating voltage AC min.         99 V           Operating voltage AC min.         99 V           Operating voltage AC max.         121 V	Thread	M12 x 1
ECLASS-6.0 27279218 ECLASS-6.1 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27060312 ECLASS-9.0 27060312 ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ECLASS-11.1 27060312 ECLASS-12.0 1200312 ECLASS-10.1 1200312 E	Degree of protection (EN IEC 60529)	IP67
ECLASS-6.1 27279218 ECLASS-7.0 27279218 ECLASS-8.0 27279218 ECLASS-9.0 27060312 ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ETIM-5.0 ECO01855 customs tariff number 85444290 GTIN 4048879342711 Packaging unit 1  Electrical data  Capacity CX 20 ms  Electrical data   Supply  Operating voltage AC min. 99 V  Operating voltage AC max. 121 V	Commercial data	
ECLASS-7.0 27279218 ECLASS-8.0 27760312 ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ETIM-5.0 ECONSTAIR SAMPLE	ECLASS-6.0	27279218
ECLASS-8.0 27279218 ECLASS-9.0 27060312 ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ECLASS-12.0 ECUASS-12.0	ECLASS-6.1	27279218
ECLASS-9.0 27060312 ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ETIM-5.0 EC001855 coustoms tariff number 85444290 GTIN 4048879342711 Packaging unit 1  Electrical data Capacity CX 20 ms  Electrical data   Supply Operating voltage AC min. 99 V Operating voltage AC max. 121 V	ECLASS-7.0	27279218
ECLASS-10.1 27060312 ECLASS-11.1 27060312 ECLASS-12.0 27060312 ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879342711 Packaging unit 1  Electrical data Capacity CX 20 ms  Electrical data   Supply  Operating voltage AC min. 99 V  Operating voltage AC max. 121 V	ECLASS-8.0	27279218
ECLASS-11.1 27060312 ECLASS-12.0 27060312 ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879342711 Packaging unit 1  Electrical data Capacity CX 20 ms  Electrical data   Supply Operating voltage AC min. 99 V Operating voltage AC max. 121 V	ECLASS-9.0	27060312
ECLASS-12.0 27060312 ETIM-5.0 EC001855  customs tariff number 85444290 GTIN 4048879342711  Packaging unit 1  Electrical data Capacity CX 20 ms  Electrical data   Supply  Operating voltage AC min. 99 V  Operating voltage AC max. 121 V	ECLASS-10.1	27060312
ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879342711 Packaging unit 1  Electrical data Capacity CX 20 ms  Electrical data   Supply Operating voltage AC min. 99 V Operating voltage AC max. 121 V	ECLASS-11.1	27060312
Customs tariff number 85444290 GTIN 4048879342711 Packaging unit 1  Electrical data Capacity CX 20 ms  Electrical data   Supply Operating voltage AC min. 99 V  Operating voltage AC max. 121 V	ECLASS-12.0	
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Packaging unit 1  Electrical data Capacity CX 20 ms  Electrical data   Supply Operating voltage AC min. 99 V Operating voltage AC max. 121 V		
Electrical data Capacity CX 20 ms  Electrical data   Supply Operating voltage AC min. 99 V Operating voltage AC max. 121 V	GTIN	4048879342711
Capacity CX 20 ms  Electrical data   Supply  Operating voltage AC min. 99 V  Operating voltage AC max. 121 V	Packaging unit	1
Electrical data   Supply  Operating voltage AC 110 V  Operating voltage AC min. 99 V  Operating voltage AC max. 121 V	Electrical data	
Operating voltage AC 110 V Operating voltage AC min. 99 V Operating voltage AC max. 121 V	Capacity CX	20 ms
Operating voltage AC min. 99 V Operating voltage AC max. 121 V	Electrical data   Supply	
Operating voltage AC max. 121 V	Operating voltage AC	110 V
operating voltage no max.	Operating voltage AC min.	99 V
Operating voltage DC 110 V	Operating voltage AC max.	121 V
	Operating voltage DC	110 V



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Operating voltage DC min.	99 V
Operating voltage DC max.	121 V
Cut-off peak voltage max.	55 V
Current operating per contact max.	4 A
Diagnostics	
Status indication LED	yellow
Device protection   Electrical	7
•	to a ded commed
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage  Material group (IEC 60664-1)	2,5 kV
,	
Mechanical data   Material data	
Locking screw coating	Nickeled
Color housing	black
Material housing	Plastic
Locking material	Zinc die-casting
Mechanical data   Mounting data	
Mounting method	inserted, screwed
Environmental characteristics   Climatic	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
Important installation notes	where 2 council and
•	Double at the compact and have visible and converted to the converted to the converted to the converted to the
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.  Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be
Note on bending radius	endangered by excessive bending forces.
Installation   Cable	
Cable identification	636
Cable Type	3
Printing color of wire insulation	white (isolation black)
Jacket Color	black
Type of Certificate	cURus
Amount stranding	1
Stranding	3 wires twisted
wire arrangement	black 1, black 2, green-yellow
Cable weigth	56,1 g/m
Material jacket	PUR
Shore hardness jacket	90 ± 5 Shore A
	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Freedom from ingredients (jacket)	
Outer-diameter (jacket)	5,9 mm
	5,9 mm ± 5 %
Outer-diameter (jacket)  Tolerance outer diameter (sheath)  Material wire insulation	5,9 mm ± 5 % PP
Outer-diameter (jacket)  Tolerance outer diameter (sheath)  Material wire insulation  Amount wires	5,9 mm ± 5 % PP
Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires Outer diameter insulation	5,9 mm ± 5 % PP 3 1,85 mm
Outer-diameter (jacket)  Tolerance outer diameter (sheath)  Material wire insulation  Amount wires  Outer diameter insulation  Outer diameter tolerance core insulation	5,9 mm ± 5 % PP 3 1,85 mm ± 5 %
Outer-diameter (jacket)  Tolerance outer diameter (sheath)  Material wire insulation  Amount wires  Outer diameter insulation  Outer diameter tolerance core insulation  Shore hardness wire insulation	5,9 mm ± 5 % PP 3 1,85 mm ± 5 % 70 ± 5 Shore D
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	5,9 mm ± 5 %  PP 3 1,85 mm ± 5 %  70 ± 5 Shore D  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
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  Printing color of wire insulation	5,9 mm  ± 5 %  PP  3  1,85 mm  ± 5 %  70 ± 5 Shore D  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  white (isolation black)
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  Printing color of wire insulation  Amount strands (wire)	5,9 mm  ± 5 %  PP  3  1,85 mm  ± 5 %  70 ± 5 Shore D  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free white (isolation black)  42
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  Printing color of wire insulation  Amount strands (wire)  Diameter of single wires	5,9 mm ± 5 % PP  3 1,85 mm ± 5 % 70 ± 5 Shore D lead-free, cadmium-free, CFC-free, halogen-free white (isolation black) 42 0,15 mm
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 Printing color of wire insulation Amount strands (wire)	5,9 mm  ± 5 %  PP  3  1,85 mm  ± 5 %  70 ± 5 Shore D  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free white (isolation black)  42

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: 2024-05-17



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Conductor type (wire)	strand class 6
Traversing distance (C-track)	10 m @ 25 °C   horizontal
Nominal voltage AC max.	300 V
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	12 A
Electrical resistance line constant wire	26 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	IEC 60332-2-2   UL 1581 § 1100 FT2   UL 1581 § 1090
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