

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

PUR 3x0.75 ye UL/CSA+drag ch. 2m

Form A (18 mm) – M12, male straight 24 V AC ±20% / DC ±25% LED and suppression Bridged PE A-coded

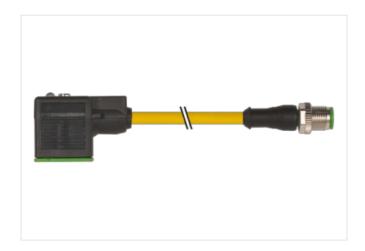
Further cable lengths on request.

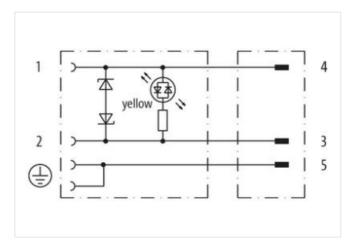
Plastic housings with good resistance against chemicals and oils.

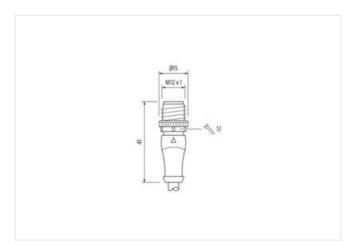
The resistance to aggressive media should be individually tested for your application. Further details on request.

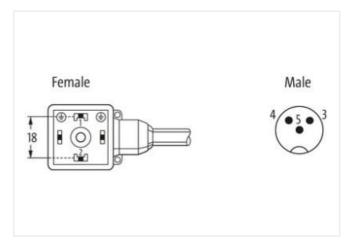
## **Link to Product**

## Illustration



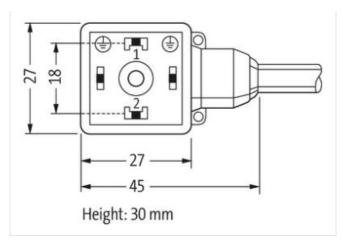








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Product may differ from Image









Cable length         2 m           Side 1         Tightening torque         0.4 Nm           Family construction form         M12           Thread         M3           suitable for corrugated tube (internal 0)         10 mm           Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP67           Side 2         P8           Tightening torque         0.6 Nm           Thread         M12 x 1           Material         PBT           Degree of protection (EN IEC 60529)         IP67           Commercial data         PBT           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060312           ECLASS-10.1         27060312           ECLASS-12.0         27060312           ECLASS-12.0         27060312           ETIM-5.0         ECOURS-5           customs tariff number         85444290           GTIN         4048879158289           Packaging unit         1           Electrical data   Supply           Operating voltage AC         24 V </th <th></th> <th></th>		
Tightening torque 0,4 Nm  Family construction form M12  Thread M3 suitable for corrupated tube (internal Ø) 10 mm Material PUR Width across flats SW13  Degree of protection (EN IEC 60529) IP67  Side 2  Tightening torque 0,6 Nm Thread M12 x 1 Material PBT  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  ECLASS-12.0 27060312  ECLASS-12.0 27060312  ECLASS-11.1 27060312  ECLASS-12.0 27060312  ECLASS-11.1 2706031	Cable length	2 m
Family construction form         M12           Thread         M3           suitable for corrugated tube (internal Ø)         10 mm           Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP67           Side 2           Tightening torque         0,6 Nm           Thread         M12 x 1           Material         PBT           Degree of protection (EN IEC 60529)         IP67           Commercial data           ECLASS-6.0         27279218           ECLASS-7.0         27279218           ECLASS-8.0         27279218           ECLASS-9.0         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ECIMS-19.0         EC001855           customs tariff number         85444290           GTIN         4048879152839           Packaging unit         1           Electrical data         Supply           Operating voltage AC min.         19,2 V	Side 1	
Thread M3 suitable for corrugated tube (internal Ø) 10 mm Material PUR Width across flats SW13 Degree of protection (EN IEC 60529) IP67  Side 2  Tightening torque 0,6 Nm Thread M12 x 1 Material PBT Degree of protection (EN IEC 60529) IP67  Commercial data  ECLASS-6.0 27279218  ECLASS-6.0 27279218  ECLASS-9.0 27279218  ECLASS-9.0 27279218  ECLASS-10.1 27060312  ECLASS-10.1 27060312  ECLASS-11.1 27060312  ECLASS-12.0 27060312  ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879152839  Packaging unit 1  Electrical data  Electrical data  Electrical data Supply Operating voltage AC min. 19,2 V	Tightening torque	0,4 Nm
suitable for corrugated tube (internal Ø)         10 mm           Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP67           Side 2         Fightening torque         0,6 Nm           Thread         M12 x 1           Material         PBT           Degree of protection (EN IEC 60529)         IP67           Commercial data         ECLASS-6.0           ECLASS-7.0         27279218           ECLASS-7.0         27279218           ECLASS-9.0         27060311           ECLASS-9.0         27060312           ECLASS-10.1         27060312           ECLASS-12.0         27060312           ECLASS-12.0         27060312           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879152839           Packaging unit         1           Electrical data         Drop-out delay time max.         20 ms           Electrical data   Supply           Operating voltage AC min.         19,2 V	Family construction form	M12
Material         PUR           Width across flats         SW13           Degree of protection (EN IEC 60529)         IP67           Side 2         Tightening torque         0.6 Nm           Thread         M12 x 1           Material         PBT         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-9.0         27060312           ECLASS-10.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ETIM-5.0         EC01855           customs tariff number         85444290           GTIN         4048879152839           Packaging unit         1           Electrical data         Pop-out delay time max.         20 ms           Electrical data   Supply         Operating voltage AC min.         24 V           Operating voltage AC min.         19,2 V <td>Thread</td> <td>M3</td>	Thread	M3
Width across flats         SW13           Degree of protection (EN IEC 60529)         IP67           Side 2         Tightening torque         0.6 Nm           Thread         M12 x 1           Material         PBT           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-9.0         27060312           ECLASS-10.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ETIM-5.0         EC001855           Customs tarriff number         85444290           GTIN         4048879152839           Packaging unit         1           Electrical data         Drop-out delay time max.         20 ms           Electrical data   Supply         Coperating voltage AC min.         24 V           Operating voltage AC min.         19,2 V	suitable for corrugated tube (internal Ø)	10 mm
Degree of protection (EN IEC 60529)   P67	Material	PUR
Side 2           Tightening torque         0,6 Nm           Thread         M12 x 1           Material         PBT           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         4048879152839           Packaging unit         1           Electrical data         Drop-out delay time max.         20 ms           Electrical data   Supply           Operating voltage AC         24 V           Operating voltage AC min.         19,2 V	Width across flats	SW13
Tightening torque         0,6 Nm           Thread         M12 x 1           Material         PBT           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-9.0         27060312           ECLASS-10.1         27060312           ECLASS-11.1         27060312           ECLASS-12.0         27060312           ETIM-5.0         EC001855           customs tariff number         85444290           GTIN         4048879152839           Packaging unit         1           Electrical data         Supply           Operating voltage AC         24 V           Operating voltage AC min.         19,2 V	Degree of protection (EN IEC 60529)	IP67
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Material         PBT           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         4048879152839           Packaging unit         1           Electrical data         Drop-out delay time max.         20 ms           Electrical data   Supply         Supply           Operating voltage AC         24 V           Operating voltage AC min.         19,2 V	Tightening torque	0,6 Nm
Degree of protection (EN IEC 60529)   IP67	Thread	M12 x 1
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       4048879152839         Packaging unit       1         Electrical data       Drop-out delay time max.       20 ms         Electrical data   Supply         Operating voltage AC       24 V         Operating voltage AC min.       19,2 V	Material	PBT
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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       4048879152839         Packaging unit       1         Electrical data       Drop-out delay time max.       20 ms         Electrical data   Supply         Operating voltage AC       24 V         Operating voltage AC min.       19,2 V	ECLASS-6.0	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 4048879152839  Packaging unit 1  Electrical data  Drop-out delay time max. 20 ms  Electrical data   Supply  Operating voltage AC 24 V  Operating voltage AC min. 19,2 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       4048879152839         Packaging unit       1         Electrical data       Drop-out delay time max.       20 ms         Electrical data   Supply         Operating voltage AC       24 V         Operating voltage AC min.       19,2 V	ECLASS-8.0	27279218
ECLASS-11.1 27060312 ECLASS-12.0 27060312 ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879152839 Packaging unit 1  Electrical data Drop-out delay time max. 20 ms  Electrical data   Supply  Operating voltage AC 24 V  Operating voltage AC min. 19,2 V	ECLASS-9.0	27060311
ECLASS-12.0 27060312 ETIM-5.0 EC001855 customs tariff number 85444290 GTIN 4048879152839 Packaging unit 1  Electrical data  Drop-out delay time max. 20 ms  Electrical data   Supply  Operating voltage AC 24 V  Operating voltage AC min. 19,2 V	ECLASS-10.1	27060312
ETIM-5.0	ECLASS-11.1	27060312
customs tariff number 85444290 GTIN 4048879152839 Packaging unit 1  Electrical data Drop-out delay time max. 20 ms  Electrical data   Supply Operating voltage AC 24 V Operating voltage AC min. 19,2 V	ECLASS-12.0	27060312
GTIN       4048879152839         Packaging unit       1         Electrical data       Drop-out delay time max.         Electrical data   Supply         Operating voltage AC       24 V         Operating voltage AC min.       19,2 V	ETIM-5.0	EC001855
Packaging unit 1  Electrical data  Drop-out delay time max. 20 ms  Electrical data   Supply  Operating voltage AC 24 V  Operating voltage AC min. 19,2 V	customs tariff number	85444290
Electrical data  Drop-out delay time max. 20 ms  Electrical data   Supply  Operating voltage AC 24 V  Operating voltage AC min. 19,2 V	GTIN	4048879152839
Drop-out delay time max. 20 ms  Electrical data   Supply  Operating voltage AC 24 V  Operating voltage AC min. 19,2 V	Packaging unit	1
Electrical data   Supply  Operating voltage AC 24 V  Operating voltage AC min. 19,2 V	Electrical data	
Operating voltage AC 24 V Operating voltage AC min. 19,2 V	Drop-out delay time max.	20 ms
Operating voltage AC min. 19,2 V	Electrical data   Supply	
	Operating voltage AC	24 V
Operating voltage AC max. 28,8 V	Operating voltage AC min.	19,2 V
	Operating voltage AC max.	28,8 V

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Operating voltage DC	24 V
Operating voltage DC min.	18 V
Operating voltage DC max.	30 V
Cut-off peak voltage max.	55 V
Current operating per contact max.	4 A
Current consumption max.	15 mA
<u> </u>	10 111/4
Diagnostics	
Status indication LED	yellow
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Rated surge voltage	0,8 kV
Material group (IEC 60664-1)	
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	•
Operating temperature min.	-25 °C
	-25 ℃ 85 °C
Operating temperature max.  Additional condition temperature range	depending on cable quality
	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	
wire arrangement	black 1, black 2, green-yellow
Cable identification	036
Cable Type	3
Printing color of wire insulation	white (isolation black)
Jacket Color	yellow
Type of Certificate	UB
	cURus
Amount stranding	CUHus 1
Amount stranding	1
Amount stranding Stranding	1 3 wires twisted
Amount stranding Stranding wire arrangement	1 3 wires twisted black 1, black 2, green-yellow
Amount stranding Stranding wire arrangement Cable weigth	1 3 wires twisted black 1, black 2, green-yellow 56,1 g/m
Amount stranding Stranding wire arrangement Cable weigth Material jacket	1 3 wires twisted black 1, black 2, green-yellow 56,1 g/m PUR
Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket	1 3 wires twisted black 1, black 2, green-yellow 56,1 g/m PUR 90 ± 5 Shore A
Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket)	1 3 wires twisted black 1, black 2, green-yellow 56,1 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket)	1 3 wires twisted black 1, black 2, green-yellow 56,1 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 5,9 mm
Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath)	1 3 wires twisted black 1, black 2, green-yellow 56,1 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 5,9 mm ± 5 %
Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation	1 3 wires twisted black 1, black 2, green-yellow 56,1 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 5,9 mm ± 5 % PP
Amount stranding Stranding wire arrangement Cable weigth Material jacket Shore hardness jacket Freedom from ingredients (jacket) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material wire insulation Amount wires	1 3 wires twisted black 1, black 2, green-yellow 56,1 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 5,9 mm ± 5 % PP 3
Amount stranding  Stranding wire arrangement  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	1 3 wires twisted black 1, black 2, green-yellow 56,1 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free 5,9 mm ± 5 % PP 3 1,85 mm
Amount stranding Stranding wire arrangement 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	1 3 wires twisted black 1, black 2, green-yellow 56,1 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 5,9 mm ± 5 % PP 3 1,85 mm ± 5 %
Amount stranding Stranding wire arrangement 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	1 3 wires twisted black 1, black 2, green-yellow 56,1 g/m PUR 90 ± 5 Shore A lead-free, cadmium-free, CFC-free, halogen-free, silicone-free 5,9 mm ± 5 % PP 3 1,85 mm ± 5 % 70 ± 5 Shore D

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Amount strands (wire)	42
Diameter of single wires	0,15 mm
Conductor crosssection (wire)	0,75 mm <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
Conductor type (wire)	strand class 6
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
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
No. of bending cycles (C-track)	10 Mio. @ 25 °C
Traversing distance (C-track)	10 m @ 25 °C   horizontal
Travel speed (C-track)	3 m/s @ 25 °C
No. of torsion cycles	2 Mio.
Torsion stress	± 180 °/m
Torsion speed	35 cycles/min