

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

PUR 3x0.75 gy UL/CSA+drag ch. 10m

Art.No.: 7000-41041-2361000

Weight: 0.537 kg Country of origin: CZ

Model designation: MSRL3-A-W236 10.0

MSUD

Form CI (9.4 mm) - M12, male straight

24 V AC ±20% / DC ±25% LED and suppression

Further cable lengths on request.

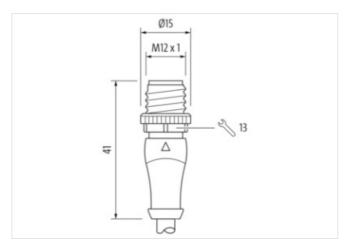
Plastic housings with good resistance against chemicals and oils.

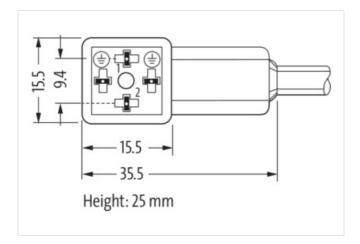
The resistance to aggressive media should be individually tested for your application. Further details on request.

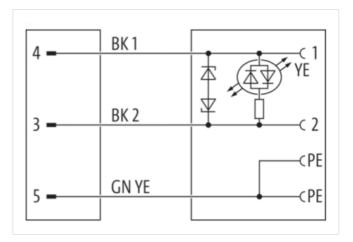
## **Link to Product**

## Illustration



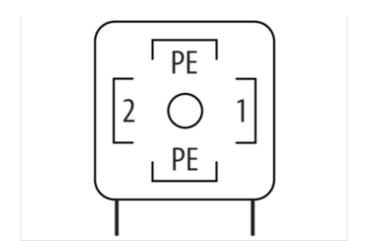


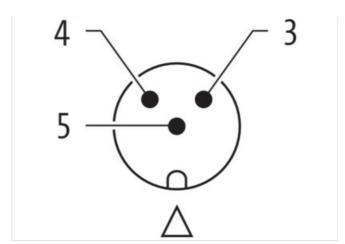


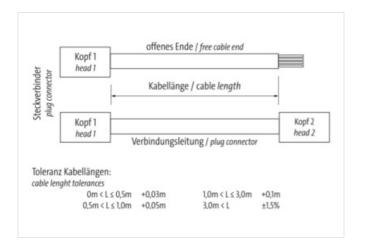


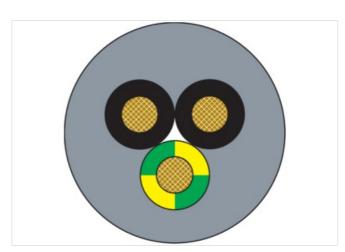


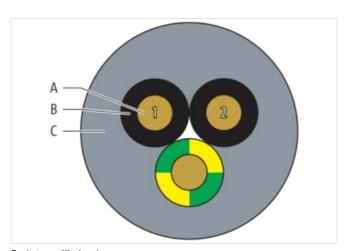
stay connected











Product may differ from Image











## Header

Material short text MSRL3-A-W236\_10.0

Cable length 10,00 m

Side 1



stay connected

Family construction form	M12
No. of poles	4
Coding	A
Mounting method	pluggable, screwed
Threaded hole	M12 x 1
Tightening torque	0,4 Nm
Width across flats	SW13
suitable for corrugated tube (internal Ø)	10 mm
Material	PUR
Material contact	Copper alloy
Coating contact	gold plated
Degree of protection (EN IEC 60529)	IP67
Side 2	
Family construction form	Valve connector form CI
No. of poles	3
Mounting method	inserted, screwed
Threaded hole	M3x31
Tightening torque	0,6 Nm
suitable for corrugated tube (internal Ø)	10 mm
Material	PBT
Degree of protection (EN IEC 60529)	IP67
Commercial data	···
URL Webshop	https://shop.murrelektronik.com/7000-41041-2361000
GTIN	4048879146845
ECLASS-6.0	27279218
ECLASS-6.1	27279218
ECLASS-7.0	27279218
ECLASS-7.1	27279218
ECLASS-8.0	27279218
ECLASS-8.1	27279218
ECLASS-9.0	27060312
ECLASS-9.1	27060312
ECLASS-10.0.1	27060312
ECLASS-10.1	27060312
ECLASS-11.0	27060312
ECLASS-11.1	27060312
ECLASS-12.0	27060312
ECLASS-13.0	27060312
ECLASS-14.0	27060312
ETIM-5.0	EC001855
ETIM-6.0	EC001855
ETIM-7.0	EC001855
ETIM-8.0	EC001855
customs tariff number	85444290
EAN	4048879146845
Packaging unit	1
Electrical data	
Drop-out delay time max.	20 ms
Electrical data   Supply	
Operating voltage AC	24 V
0 " " 10 40 "	19,2 V
Operating voltage AC min.  Operating voltage AC max.	28,8 V

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: 2025-12-11



stay connected

Operating voltage DC	24 V
Operating voltage DC min.	18 V
Operating voltage DC max.	30 V
Current operating per contact max.	4 A
Cut-off peak voltage max.	55 V
Diagnostics	
Status indication LED	yellow
Device protection   Electrical	
Additional condition protection degree	inserted, screwed
Pollution Degree	3
Additional suppressor	LED, Z-Diode
Rated surge voltage	0,8 kV
Material group (IEC 60664-1)	I
Mechanical data   Material data	
Material housing	Plastic
Color housing	black
Material jacket	PUR
Environmental characteristics   Climatic	
	-25 °C
Operating temperature min.  Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
	depending on cable quality
Important installation notes	
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.
Note on strain relief	Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.
Conformity	
Product standard	EN IEC 61076-2-101 (M12), EN 175301-803 (valve plug)
Installation   Cable	
Cable identification	236
Cable Type	3
Amount stranding	1
Stranding	
	3 wires stranded
	3 wires stranded 51 g/m
Cable weigth  Material wire insulation	
Cable weigth	51 g/m
Cable weigth Material wire insulation	51 g/m PP
Cable weigth  Material wire insulation  Amount wires	51 g/m PP 3
Cable weigth  Material wire insulation  Amount wires  Outer diameter insulation	51 g/m PP  3 1,85 mm
Cable weigth Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation	51 g/m PP 3 1,85 mm ± 0,1 mm
Cable weigth Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation Shore hardness wire insulation	51 g/m PP 3 1,85 mm ± 0,1 mm 70 ± 5 Shore D
Cable weigth Material wire insulation Amount wires Outer diameter insulation Outer diameter tolerance core insulation Shore hardness wire insulation Ingredient freeness wire insulation	51 g/m  PP  3  1,85 mm  ± 0,1 mm  70 ± 5 Shore D  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Cable weigth  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	51 g/m  PP  3  1,85 mm  ± 0,1 mm  70 ± 5 Shore D  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free white (isolation black)
Cable weigth  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)	51 g/m  PP  3  1,85 mm  ± 0,1 mm  70 ± 5 Shore D  lead-free, cadmium-free, CFC-free, halogen-free white (isolation black)  42
Cable weigth 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	51 g/m  PP  3  1,85 mm  ± 0,1 mm  70 ± 5 Shore D  lead-free, cadmium-free, CFC-free, halogen-free white (isolation black)  42  0,15 mm
Cable weigth 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 Conductor crosssection (wire)	51 g/m  PP  3  1,85 mm  ± 0,1 mm  70 ± 5 Shore D  lead-free, cadmium-free, CFC-free, halogen-free white (isolation black)  42  0,15 mm  0,75 mm²
Cable weigth 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 Conductor crosssection (wire) Material conductor wire	51 g/m  PP  3  1,85 mm  ± 0,1 mm  70 ± 5 Shore D  lead-free, cadmium-free, CFC-free, halogen-free white (isolation black)  42  0,15 mm  0,75 mm²  Stranded copper wire, bare
Cable weigth  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  Conductor crosssection (wire)  Material conductor wire  Conductor type (wire)	51 g/m  PP  3  1,85 mm  ± 0,1 mm  70 ± 5 Shore D  lead-free, cadmium-free, CFC-free, halogen-free white (isolation black)  42  0,15 mm  0,75 mm²  Stranded copper wire, bare  strand class 6
Cable weigth 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 Conductor crosssection (wire) Material conductor wire Conductor type (wire) Outer-diameter (jacket)	51 g/m  PP  3  1,85 mm  ± 0,1 mm  70 ± 5 Shore D  lead-free, cadmium-free, CFC-free, halogen-free white (isolation black)  42  0,15 mm  0,75 mm²  Stranded copper wire, bare strand class 6  5,9 mm
Cable weigth  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  Conductor crosssection (wire)  Material conductor wire  Conductor type (wire)  Outer-diameter (jacket)  Tolerance outer diameter (sheath)	51 g/m  PP  3  1,85 mm  ± 0,1 mm  70 ± 5 Shore D  lead-free, cadmium-free, CFC-free, halogen-free white (isolation black)  42  0,15 mm  0,75 mm²  Stranded copper wire, bare  strand class 6  5,9 mm  ± 5 %
Cable weigth 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 Conductor crosssection (wire) Material conductor wire Conductor type (wire) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material jacket	51 g/m  PP  3  1,85 mm  ± 0,1 mm  70 ± 5 Shore D  lead-free, cadmium-free, CFC-free, halogen-free white (isolation black)  42  0,15 mm  0,75 mm²  Stranded copper wire, bare  strand class 6  5,9 mm  ± 5 %  PUR
Cable weigth 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 Conductor crosssection (wire) Material conductor wire Conductor type (wire) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material jacket Shore hardness jacket	51 g/m PP 3 1,85 mm ± 0,1 mm 70 ± 5 Shore D lead-free, cadmium-free, CFC-free, halogen-free white (isolation black) 42 0,15 mm 0,75 mm² Stranded copper wire, bare strand class 6 5,9 mm ± 5 % PUR 90 ± 5 Shore A
Cable weigth 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 Conductor crosssection (wire) Material conductor wire Conductor type (wire) Outer-diameter (jacket) Tolerance outer diameter (sheath) Material jacket Shore hardness jacket Freedom from ingredients (jacket)	51 g/m  PP  3  1,85 mm  ± 0,1 mm  70 ± 5 Shore D  lead-free, cadmium-free, CFC-free, halogen-free silicone-free white (isolation black)  42  0,15 mm  0,75 mm²  Stranded copper wire, bare strand class 6  5,9 mm  ± 5 %  PUR  90 ± 5 Shore A  lead-free, cadmium-free, CFC-free, halogen-free, silicone-free



Nominal voltage AC max.	300 V
Withstand voltage (wire - wire)	2.5 kV @ 60 s
Withstand voltage (wire - jacket)	2.5 kV @ 60 s
Current load capacity (standard)	to DIN VDE 0298-4
Current load capacity min. wire	12 A
Min. operating temperature (static)	-40 °C
Max. operating temperature (static)	80 °C / 90 °C @ 10000 h Operation
Operating temperature min. (dynamic)	-25 °C
Operating temperature max. (dynamic)	80 °C / 90 °C @ 10000 h Operation
Operating temperature min. (drag chain)	-25 °C
Operating temperature max. (drag chain)	80 °C / 90 °C @ 10000 h Operation
Flame resistance	UL 1581 § 1090, CSA FT2, IEC 60332-2-2
Oil resistance	IEC 60811-404
Chemical resistance	good
Other resistances	good resistance to gasoline, resistant to hydrolysis, resistant to microbes
Bending radius (fixed)	5 × Outer diameter
Bending radius (dynamic)	10 × 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
Acceleration (C-track)	10 m/s² @ 25 °C
No. of torsion cycles	2 Mio.
Torsion stress	± 180 °/m
Torsion speed	35 cycles/min