

**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

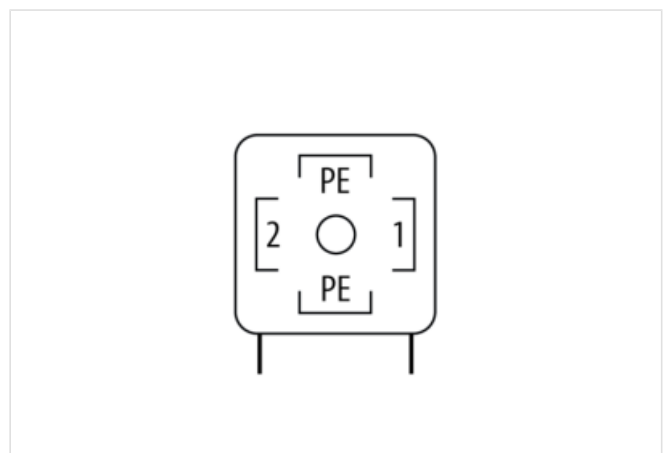
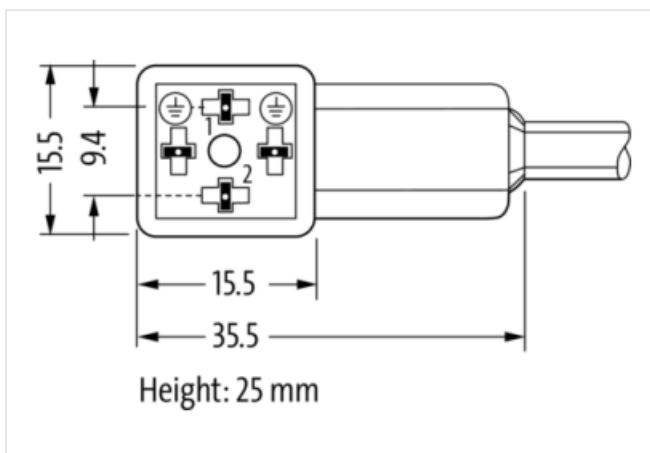
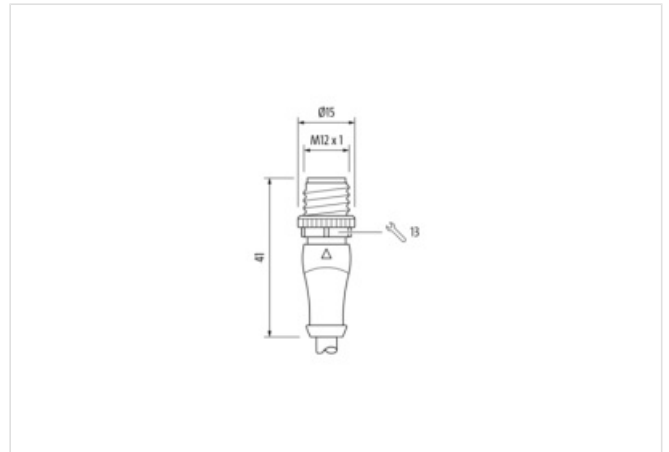
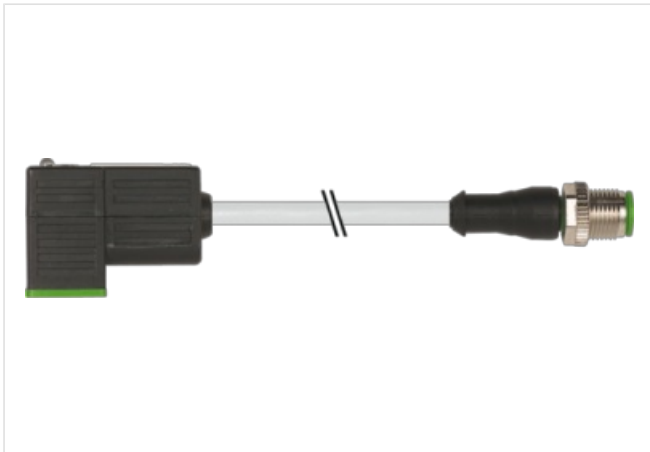
24 V AC  $\pm 20\%$  / DC  $\pm 25\%$ 

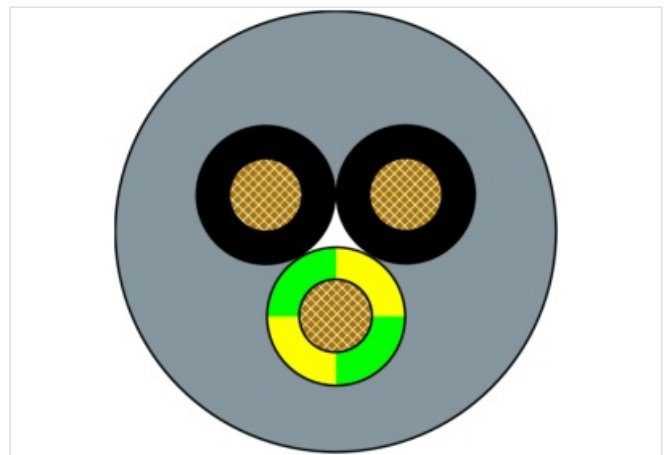
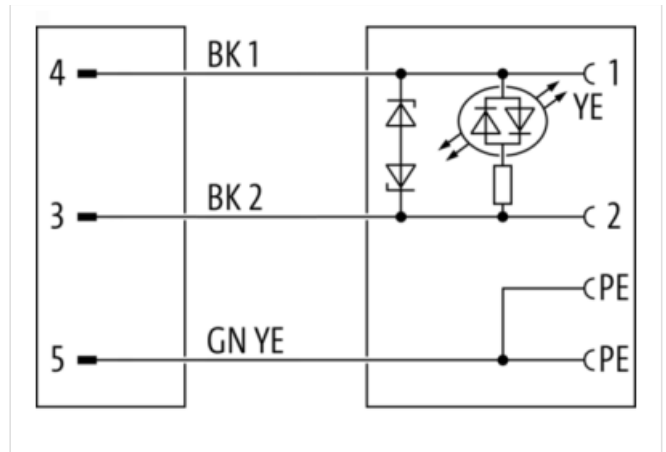
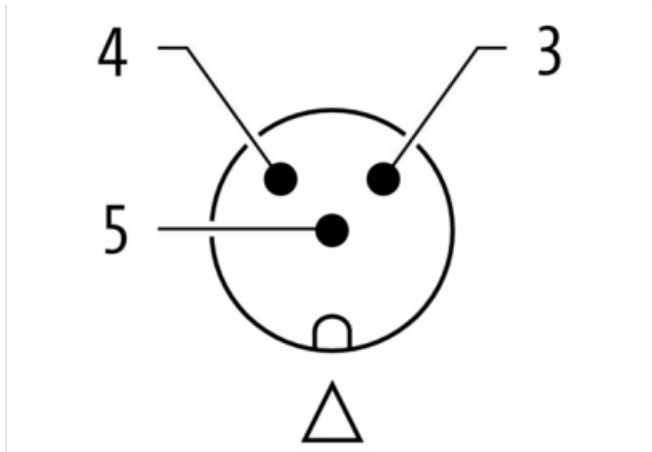
LED and suppression

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**



Product may differ from Image



Cable length	10,00 m
<b>Side 1</b>	
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
<b>Side 2</b>	
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	<a href="https://shop.murrelektronik.com/7000-41041-2361000">https://shop.murrelektronik.com/7000-41041-2361000</a>
GTIN	4048879146845
Customs tariff number	85444290
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
Operating voltage AC min.	19,2 V
Operating voltage AC max.	28,8 V
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**

housing	Plastic
Color housing	black
Material jacket	PUR
<b>Environmental characteristics   Climatic</b>	
Operating temperature min.	-25 °C
Operating temperature max.	85 °C
Additional condition temperature range	depending on cable quality
<b>Important installation notes</b>	
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.
<b>Conformity</b>	
Product standard	EN IEC 61076-2-101 (M12), EN 175301-803 (valve plug)
<b>Installation   Cable</b>	
Cable identification	236
Cable Type	3
Cable weighth	51 g/m
UL AWM Style	20549 / 10493
Stranding	1 × 3 wires stranded
Wire arrangement	BK 1, BK 2, GNYE
Material wire insulation	PP
Amount wires	3
Outer diameter insulation	1.85 mm ± 0.1 mm
Conductor crosssection (wire)	0,75 mm <sup>2</sup>
Material conductor wire	Stranded copper wire, bare
Core construction (wire)	42 × 0.15 mm
Ingredient freeness wire insulation	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material jacket	PUR
Outer-diameter (jacket)	5.9 mm ± 5 %
Jacket Color	gray / RAL 7040
Freedom from ingredients (jacket)	lead-free, cadmium-free, CFC-free, halogen-free, silicone-free
Material property (jacket)	abrasion-resistant, low adhesion, good machinability, matte
Conductor resistance (wire)	26 Ω/km @ 20 °C
Nominal voltage max.	300 V
Withstand voltage (wire - wire)	2.5 kV @ 60 s
Withstand voltage (wire - jacket)	2.5 kV @ 60 s
Current load capacity max. (wire)	12 A
Current load capacity (standard)	to DIN VDE 0298-4
Operating temperature (static)	-40 °C ... 80 °C / 90 °C @ 10000 h Operation
Operating temperature (dynamic)	-25 °C ... 80 °C / 90 °C @ 10000 h Operation
Operating temperature (drag chain)	-25 °C ... 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
Notes	application-related testing
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/s <sup>2</sup> @ 25 °C
No. of torsion cycles	2 Mio.

Torsion stress	$\pm 180$ °/m
Torsion speed	35 cycles/min

---