

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

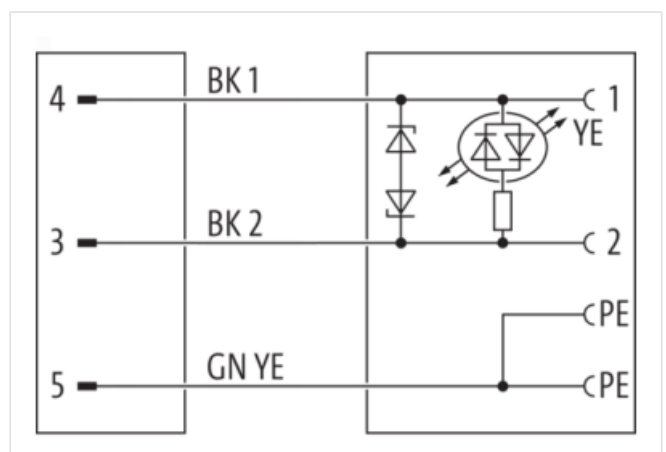
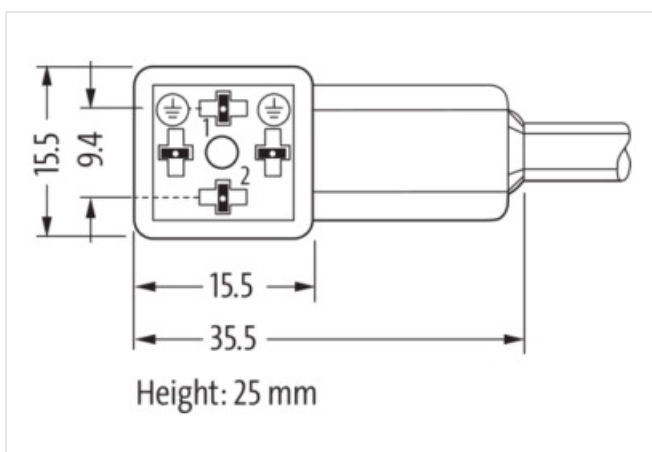
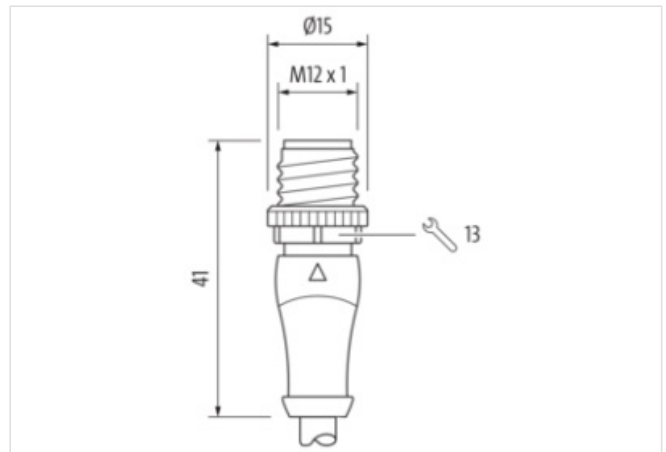
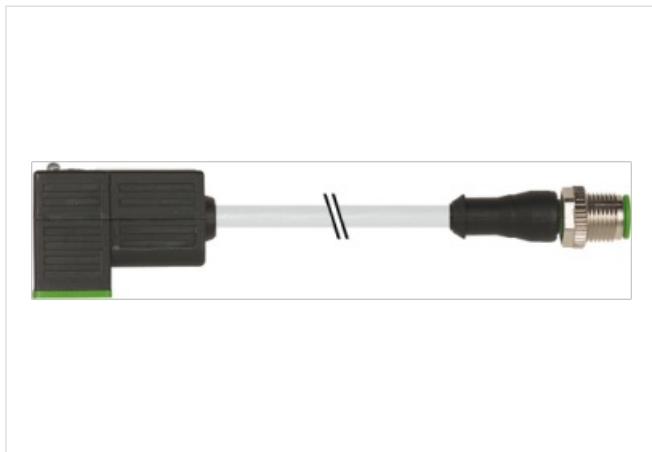
24 V AC $\pm 20\%$ / DC $\pm 25\%$

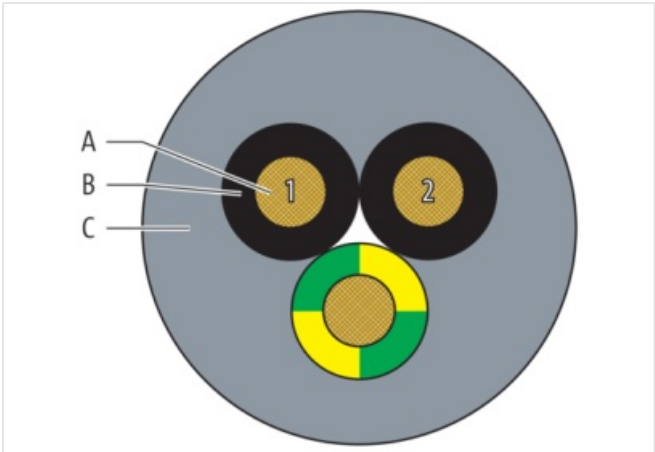
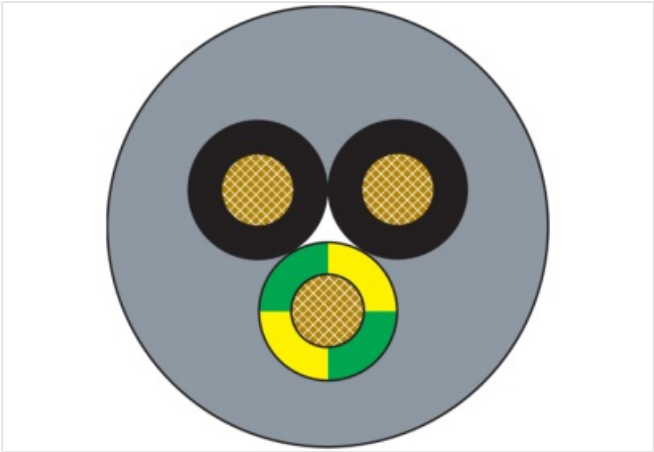
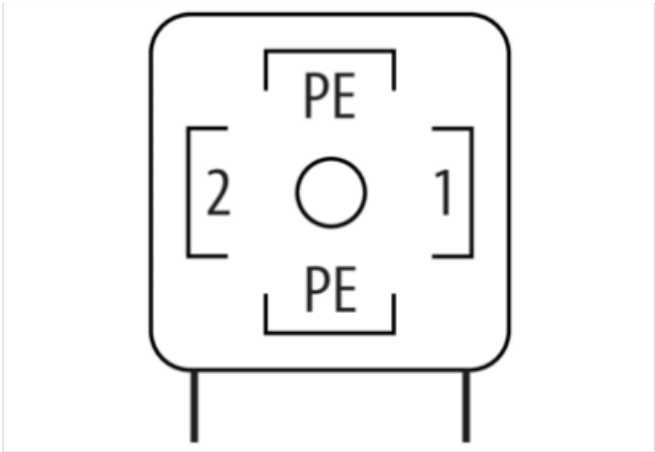
LED and suppression

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



Header

Material short text MSRL3-A-W236_10.0

Cable length 10,00 m

Side 1

| | |
|---|--------------------|
| 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 |
| 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

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|-----------------------|--------|
| 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

| | |
|--|----------------------------|
| Operating temperature min. | -25 °C |
| Operating temperature max. | 85 °C |
| Additional condition temperature range | depending on cable quality |

Important installation notes

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|------------------------|---|
| Note on bending radius | Attention: 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 |
| Cable weight | 51 g/m |
| Material wire insulation | PP |
| Amount wires | 3 |
| Outer diameter insulation | 1,85 mm |
| Outer diameter tolerance core insulation | ± 0,1 mm |
| Shore hardness wire insulation | 70 ± 5 Shore D |
| Ingredient freeness wire insulation | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free |
| Printing color of wire insulation | white (isolation black) |
| Amount strands (wire) | 42 |
| Diameter of single wires | 0,15 mm |
| Conductor crosssection (wire) | 0,75 mm² |
| Material conductor wire | Stranded copper wire, bare |
| Conductor type (wire) | strand class 6 |
| Outer-diameter (jacket) | 5,9 mm |
| Tolerance outer diameter (sheath) | ± 5 % |
| Material jacket | PUR |
| Shore hardness jacket | 90 ± 5 Shore A |
| 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 (standard) | to DIN VDE 0298-4 |
| Current load capacity max. (wire) | 12 A |
| Operating temperature min. (static) | -40 °C |
| Operating temperature max. (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 |