

**MSUD double valve BI-11mm with cable**

PUR 4x0.75 gy UL/CSA+drag ch. 3m

Art.No.: 7000-58142-2370300

Weight: 0.28

Country of origin: CZ

Model designation: MSLL0-236\_200-LL0-237\_3.0

Form BI (11 mm) industrial standard

max. 230 V AC/DC

without components

3-pole

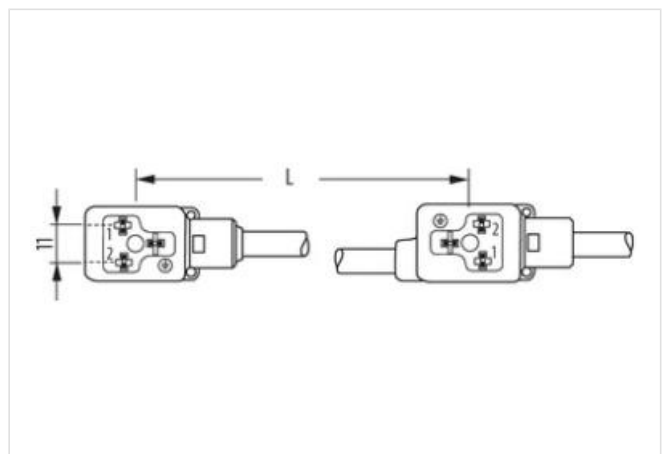
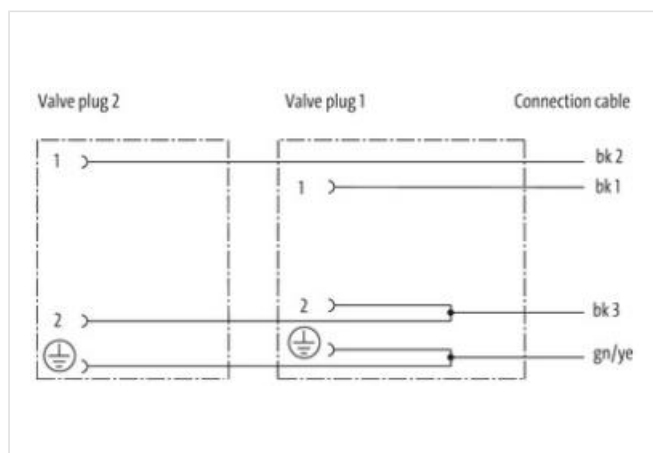
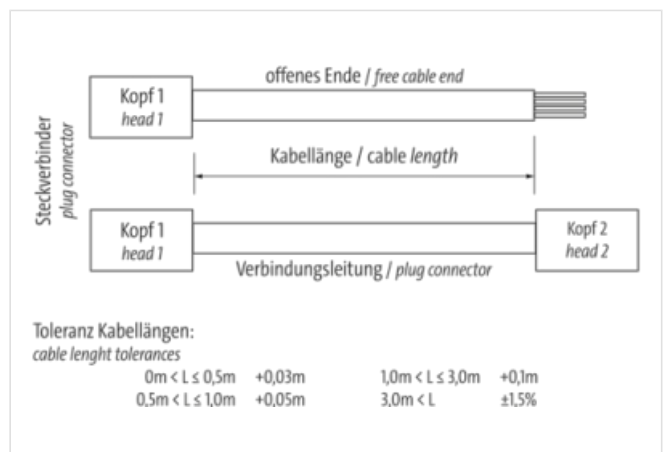
Connection cable L = 200 mm

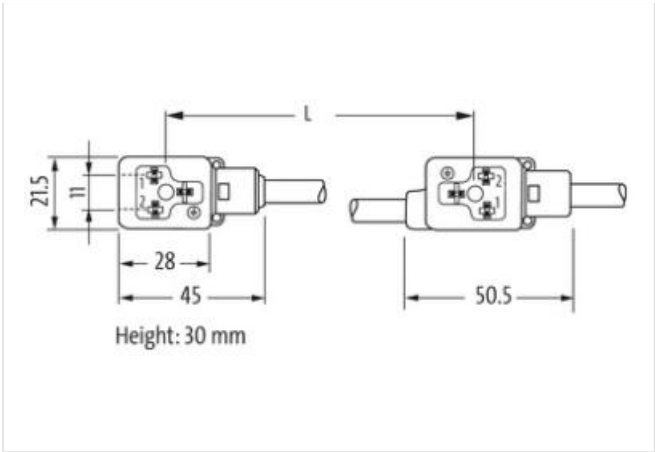
PE at cable entry (0°)

without cable sleeves

Further cable lengths on request.

Plastic housings with good resistance against chemicals and oils.

**[Link to Product](#)****Illustration**



Product may differ from Image



|                                    |               |
|------------------------------------|---------------|
| Cable length                       | 3 m           |
| Side 1                             |               |
| Tightening torque                  | 0,4 Nm        |
| Thread                             | M3            |
| Material                           | PBT           |
| Side 2                             |               |
| Stripping length (jacket)          | 50 mm         |
| Tightening torque                  | 0,4 Nm        |
| Thread                             | M3            |
| Material                           | PBT           |
| 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 tariff number              | 85444290      |
| customs tariff number              | 85444290      |
| EAN                                | 4048879695626 |
| EAN                                | 4048879695626 |
| Packaging unit                     | 1             |
| Packaging unit                     | 1             |
| Electrical data   Supply           |               |
| Operating voltage AC max.          | 230 V         |
| Operating voltage DC max.          | 230 V         |
| Current operating per contact max. | 4 A           |
| Installation   Connection          |               |
| Stripping length (jacket)          | 50 mm         |

**Device protection | Electrical**

|                                        |                   |
|----------------------------------------|-------------------|
| Degree of protection (EN IEC 60529)    | IP67              |
| Additional condition protection degree | inserted, screwed |
| Pollution Degree                       | 3                 |
| Rated surge voltage                    | 4 kV              |
| Material group (IEC 60664-1)           | I                 |

**Mechanical data**

|                             |         |
|-----------------------------|---------|
| Contour for corrugated hose | without |
|-----------------------------|---------|

**Mechanical data | Material data**

|                  |            |
|------------------|------------|
| Color housing    | black      |
| Coating locking  | galvanized |
| Material gasket  | PUR        |
| Locking material | Steel      |

**Mechanical data | Mounting data**

|                 |                    |
|-----------------|--------------------|
| Mounting method | inserted, screwing |
|-----------------|--------------------|

**Environmental characteristics | Climatic**

|                                        |                            |
|----------------------------------------|----------------------------|
| Operating temperature min.             | -25 °C                     |
| Operating temperature max.             | 85 °C                      |
| Additional condition temperature range | 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, black 3, green-yellow                        |
| Cable identification                     | 237                                                            |
| Cable Type                               | 3                                                              |
| Printing color of wire insulation        | white (isolation black)                                        |
| Jacket Color                             | gray                                                           |
| Type of Certificate                      | cURus                                                          |
| Amount stranding                         | 1                                                              |
| Stranding                                | 4 wires twisted                                                |
| wire arrangement                         | black 1, black 2, black 3, green-yellow                        |
| Cable weight                             | 69,3 g/m                                                       |
| Material jacket                          | PUR                                                            |
| Shore hardness jacket                    | 90 ± 5 Shore A                                                 |
| Freedom from ingredients (jacket)        | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free |
| Outer-diameter (jacket)                  | 6,5 mm                                                         |
| Tolerance outer diameter (sheath)        | ± 5 %                                                          |
| Material wire insulation                 | PP                                                             |
| Amount wires                             | 4                                                              |
| Outer diameter insulation                | 1,85 mm                                                        |
| Outer diameter tolerance core insulation | ± 5 %                                                          |
| 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                                                 |
| Nominal voltage AC max.                  | 300 V                                                          |

|                                                   |                                                      |
|---------------------------------------------------|------------------------------------------------------|
| Current load capacity (standard)                  | to DIN VDE 0298-4                                    |
| Current load capacity min. wire                   | 9,6 A                                                |
| Electrical resistance line constant wire          | 26 $\Omega$ /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 § 1090   UL 1581 § 1100 FT2   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                                    | $\pm 180$ °/m                                        |
| Torsion speed                                     | 35 cycles/min                                        |