

**M8 female 90° A-cod. with cable**

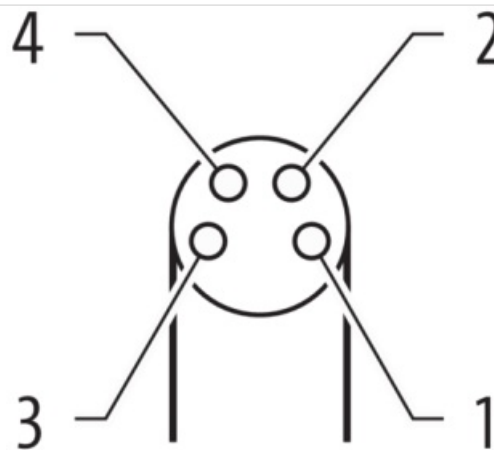
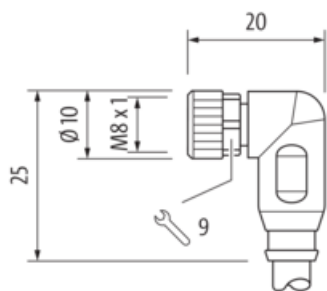
PUR 4x0.25 gy UL/CSA+drag ch. 7.5m

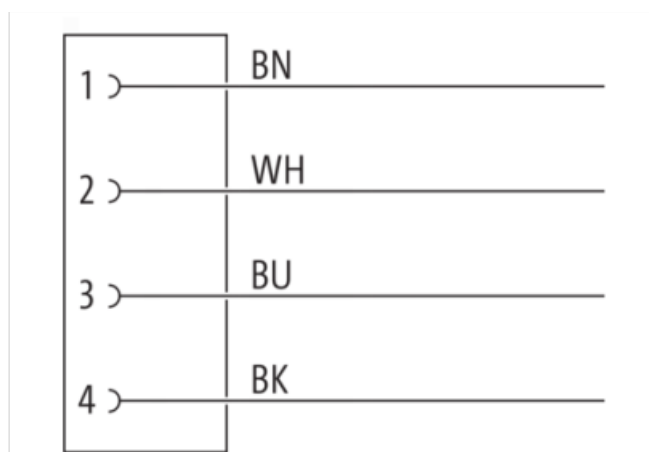
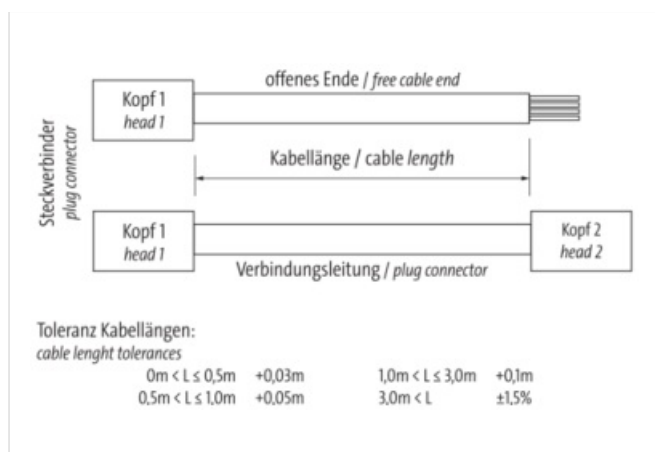
Art.No.: 7000-08101-2310750

Weight: 0.252

Country of origin: US

Model designation: MSGL0-T231\_7.5

**Link to Product****Illustration**



Product may differ from Image

**Side 1**

|   |                   |
|---|-------------------|
| Family construction form                  | M8                |
| No. of poles                              | 4                 |
| Coding                                    | A                 |
| Mounting method                           | inserted, screwed |
| Thread                                    | M8 x 1            |
| Tightening torque                         | 0.4 Nm            |
| Width across flats                        | SW9               |
| Cable outlet                              | angled            |
| suitable for corrugated tube (internal Ø) | 6.5 mm            |
| Material                                  | PUR               |
| Material contact                          | Copper alloy      |
| Coating contact                           | gold plated       |
| Degree of protection (EN IEC 60529)       | IP67, IP66K, IP65 |

**Side 2**

|                           |                |
|---------------------------|----------------|
| Family construction form  | free cable end |
| Stripping length (jacket) | 20 mm          |

**Commercial data**

|               |   |
|---------------|---|
| URL Webshop   | <a href="https://shop.murrelektronik.com/7000-08101-2310750">https://shop.murrelektronik.com/7000-08101-2310750</a> |
| GTIN          | 4048879227711   |
| 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    | 27060311  |
| ECLASS-9.1    | 27060311  |
| ECLASS-10.0.1 | 27060311  |
| ECLASS-10.1   | 27060311  |
| ECLASS-11.0   | 27060311  |
| ECLASS-11.1   | 27060311  |
| ECLASS-12.0   | 27060311  |

|             |               |
|-------------|---------------|
| ECLASS-13.0 | 27060311      |
| ECLASS-14.0 | 27060311      |
| ETIM-5.0    | EC001855      |
| ETIM-6.0    | EC001855      |
| ETIM-7.0    | EC001855      |
| ETIM-8.0    | EC001855      |
| EAN         | 4048879227711 |

#### Electrical data | Supply

|                                    |      |
|------------------------------------|------|
| Operating voltage AC max.          | 50 V |
| Operating voltage DC max.          | 60 V |
| Current operating per contact max. | 4 A  |

#### Diagnostics

|                       |    |
|-----------------------|----|
| Status indication LED | no |
|-----------------------|----|

#### Installation | Connection

|              |        |
|--------------|--------|
| Mounting set | M8 x 1 |
|--------------|--------|

#### Device protection | Electrical

|  |                   |
|--|-------------------|
| Degree of protection (EN IEC 60529)    | IP67, IP66K, IP65 |
| Additional condition protection degree | inserted, screwed |
| Pollution Degree                       | 3                 |
| Rated surge voltage                    | 1.5 kV            |
| Material group (IEC 60664-1)           | I                 |

#### Mechanical data | Material data

|                           |                  |
|---------------------------|------------------|
| Material screw connection | Zinc die-casting |
| Coating of fitting        | nickel plated    |
| Locking material          | Zinc die-casting |
| Coating locking           | Nickeled         |
| Material gasket           | FKM              |

#### Mechanical data | Mounting data

|                 |                                       |
|-----------------|---------------------------------------|
| Mounting method | inserted, screwed, Shaking protection |
|-----------------|---------------------------------------|

#### 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 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 | DIN EN 61076-2-104 (M8) |
|------------------|-------------------------|

#### Installation | Cable

|  |                           |
|--|---------------------------|
| Cable identification                     | 231                       |
| Cable Type                               | 3                         |
| Amount stranding                         | 1                         |
| Stranding                                | Wires                     |
| Wire arrangement                         | brown, black, blue, white |
| Cable weight                             | 33 g/m                    |
| Material wire insulation                 | PP                        |
| Amount wires                             | 4                         |
| Outer diameter insulation                | 1.25 mm                   |
| Outer diameter tolerance core insulation | ± 0.05 mm                 |

|   |   |
|---|---|
| Shore hardness wire insulation          | 70  |
| Ingredient freeness wire insulation     | CFC-free, cadmium-free, silicone-free, halogen-free, lead-free              |
| Amount strands (wire)                   | 32  |
| Diameter of single wires                | 0.1 mm  |
| Conductor crosssection (wire)           | 0.25 mm <sup>2</sup>  |
| Material conductor wire                 | Stranded copper wire, bare  |
| Conductor type (wire)                   | strand class 6  |
| Outer-diameter (jacket)                 | 4.5 mm  |
| Tolerance outer diameter (sheath)       | ± 5 %   |
| Material jacket                         | PUR   |
| Shore hardness jacket                   | 90  |
| Freedom from ingredients (jacket)       | CFC-free, cadmium-free, silicone-free, halogen-free, lead-free              |
| Material property (jacket)              | matte, good machinability, abrasion-resistant, low adhesion                 |
| Conductor resistance (wire)             | 79 Ω/km @ 20 °C   |
| 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         | 3.6 A   |
| 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   |
| 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/s <sup>2</sup> @ 25 °C   |
| No. of torsion cycles                   | 2 Mio.  |
| Torsion stress                          | 180 °/m   |
| Torsion speed                           | 35 cycles/min   |