

**M8 male 0° A-cod. with cable**

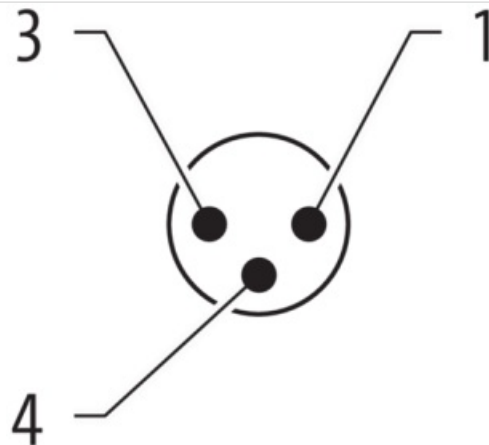
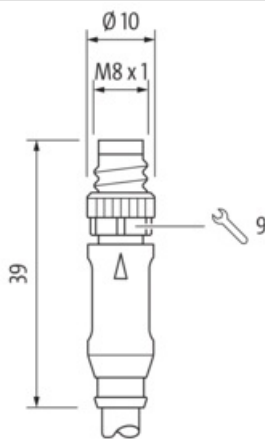
PUR 3x0.25 bk UL/CSA+drag ch. 0.5m

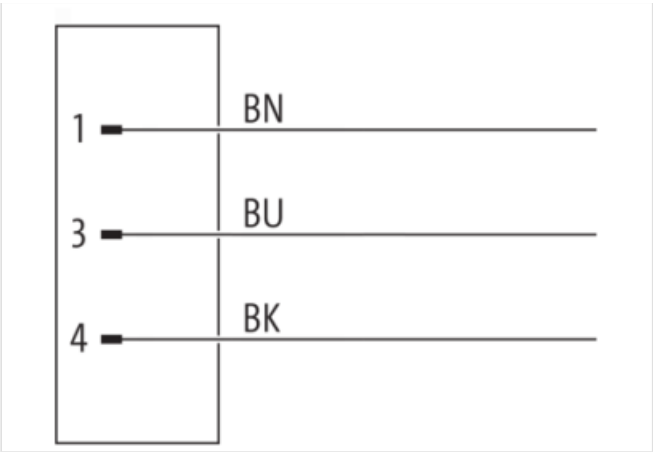
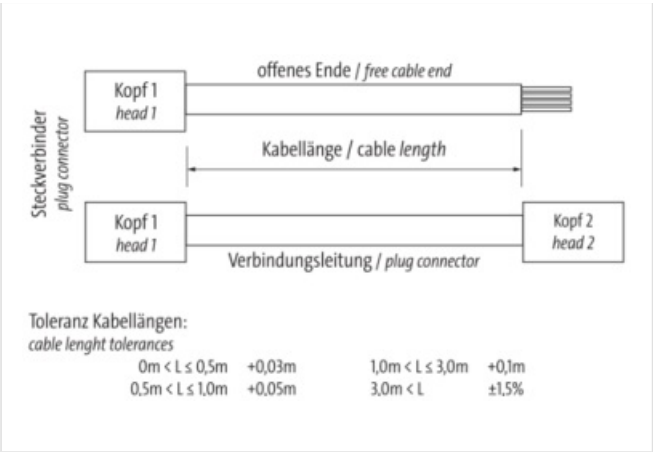
Art.No.: 7000-08001-6300050

Weight: 0.021

Country of origin: DE

Model designation: MSHL0-R630\_0.5

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



Product may differ from Image



| Side 1                                    |                   |
|-------------------------------------------|-------------------|
| Family construction form                  | M8                |
| No. of poles                              | 3                 |
| Coding                                    | A                 |
| Gender                                    | male              |
| Mounting method                           | inserted, screwed |
| Thread                                    | M8 x 1            |
| Tightening torque                         | 0.4 Nm            |
| Width across flats                        | SW9               |
| Cable outlet                              | straight          |
| 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/7000-08001-6300050">https://shop.murrelektronik.com/7000-08001-6300050</a> |
| GTIN            | 4048879873406                                                                                                       |
| ECLASS-6.0      | 27061801                                                                                                            |
| 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         | 4048879873406 |

**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 | Brass            |
| Coating of fitting        | nickel plated    |
| Locking material          | Zinc die-casting |
| Coating locking           | Nickeled         |

**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                     | 630                |
| Cable Type                               | 3                  |
| Amount stranding                         | 1                  |
| Stranding                                | Wires              |
| Wire arrangement                         | brown, black, blue |
| Cable weight                             | 26.4 g/m           |
| Material wire insulation                 | PP                 |
| Amount wires                             | 3                  |
| 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)                 | 4.1 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         | 4.5 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                                           |
| Storage temperature max.                | 9,000 °C                                                                    |
| 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                                                               |