

**M12 Power female 0° K-cod. with cable**

PUR 5x1.5 bk UL/CSA+drag ch. 7.5m

Art.No.: 7000-P3221-P050750

Weight: 1.003

Country of origin: DE

Model designation: MSWBKL0-UP05\_7.5

Power

Female straight

M12, 5-pole

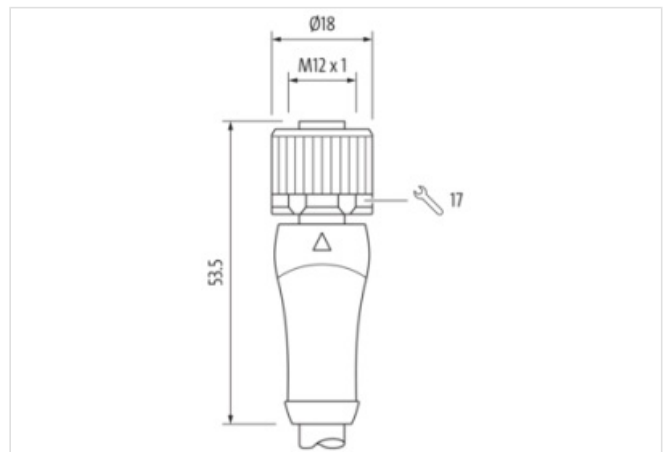
K-coded

with cable sleeves

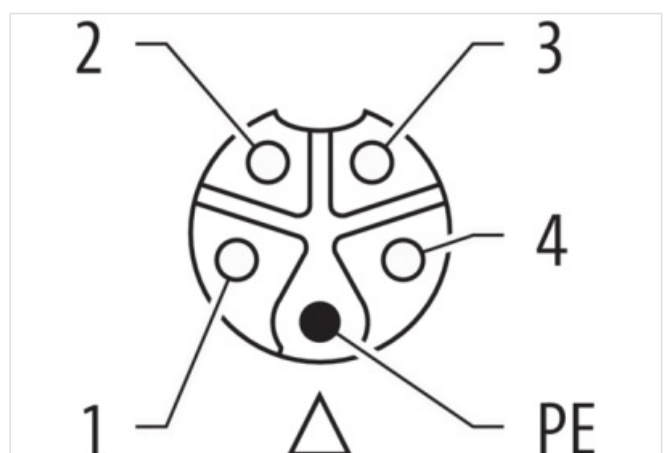
Plastic housings with good resistance against chemicals and oils.

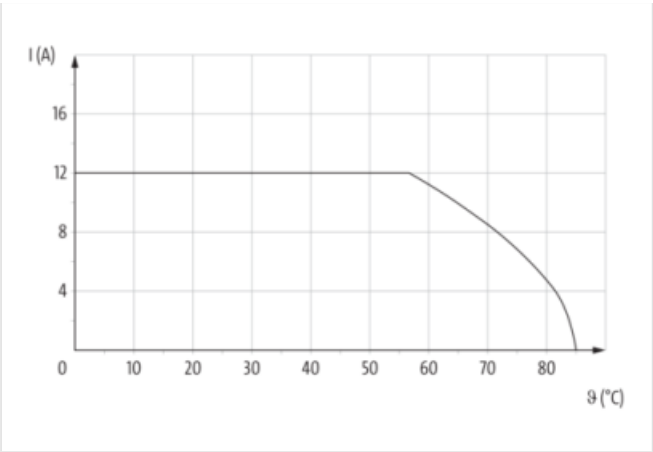
The resistance to aggressive media should be individually tested for your application. Further details on request.

Further cable lengths on request.

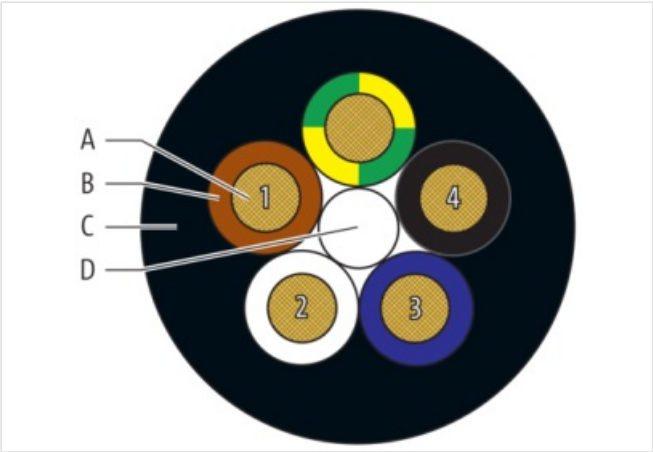
**[Link to Product](#)****Illustration**

|    |       |
|----|-------|
| 1  | BN 1  |
| 2  | WH 2  |
| 3  | BU 3  |
| 4  | BK 4  |
| PE | GN YE |





Product may differ from Image



| Header                                    |                   |
|-------------------------------------------|-------------------|
| Material short text                       | MSWBKL0-UP05_7.5  |
| Cable length                              | 7,50 m            |
| Side 1                                    |                   |
| Family construction form                  | M12P              |
| No. of poles                              | 5                 |
| Coding                                    | K                 |
| Gender                                    | female            |
| Mounting method                           | inserted, screwed |
| Thread                                    | M12 x 1           |
| Tightening torque                         | 0.6 Nm            |
| Width across flats                        | SW17              |
| Cable outlet                              | straight          |
| suitable for corrugated tube (internal Ø) | 12 mm             |
| Material                                  | PUR               |
| Material contact                          | Copper alloy      |
| Coating contact                           | gold plated       |
| Degree of protection (EN IEC 60529)       | IP65, IP67, IP69K |
| Side 2                                    |                   |

|                                                 |                                                                                                                     |
|-------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|
| Family construction form                        | Free cable end                                                                                                      |
| Stripping length (jacket)                       | 100 mm                                                                                                              |
| <b>Commercial data</b>                          |                                                                                                                     |
| URL Webshop                                     | <a href="https://shop.murrelektronik.com/7000-P3221-P050750">https://shop.murrelektronik.com/7000-P3221-P050750</a> |
| GTIN                                            | 4048879749589                                                                                                       |
| 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                                      | 27060327                                                                                                            |
| ECLASS-9.1                                      | 27060311                                                                                                            |
| ECLASS-10.0.1                                   | 27060311                                                                                                            |
| ECLASS-10.1                                     | 27060311                                                                                                            |
| ECLASS-11.0                                     | 27060311                                                                                                            |
| ECLASS-11.1                                     | 27060311                                                                                                            |
| ECLASS-12.0                                     | 27060327                                                                                                            |
| ECLASS-13.0                                     | 27060311                                                                                                            |
| ECLASS-14.0                                     | 27060311                                                                                                            |
| ETIM-5.0                                        | EC001855                                                                                                            |
| ETIM-6.0                                        | EC001855                                                                                                            |
| ETIM-7.0                                        | EC001855                                                                                                            |
| ETIM-8.0                                        | EC001855                                                                                                            |
| customs tariff number                           | 85444290                                                                                                            |
| EAN                                             | 4048879749589                                                                                                       |
| Packaging unit                                  | 1                                                                                                                   |
| <b>Electrical data   Supply</b>                 |                                                                                                                     |
| Operating voltage AC max.                       | 600 V                                                                                                               |
| Current operating per contact max.              | 12 A                                                                                                                |
| <b>Diagnostics</b>                              |                                                                                                                     |
| Status indication LED                           | no                                                                                                                  |
| <b>Installation   Connection</b>                |                                                                                                                     |
| Width across flats                              | SW17                                                                                                                |
| <b>Device protection   Electrical</b>           |                                                                                                                     |
| Degree of protection (EN IEC 60529)             | IP65, IP67, IP69K                                                                                                   |
| Additional condition protection degree          | inserted, screwed                                                                                                   |
| Pollution Degree                                | 3                                                                                                                   |
| Rated surge voltage                             | 6 kV                                                                                                                |
| Material group (IEC 60664-1)                    | I                                                                                                                   |
| <b>Mechanical data   Material data</b>          |                                                                                                                     |
| Material housing                                | PUR                                                                                                                 |
| Material screw connection                       | Brass                                                                                                               |
| Coating of fitting                              | nickel plated                                                                                                       |
| Material gasket                                 | FKM                                                                                                                 |
| <b>Mechanical data   Mounting data</b>          |                                                                                                                     |
| Mounting method                                 | inserted, screwed, Shaking protection                                                                               |
| <b>Environmental characteristics   Climatic</b> |                                                                                                                     |
| Operating temperature min.                      | -30 °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 | EN IEC 61076-2-111 |
|------------------|--------------------|

#### Installation | Cable

|                                          |                                                                                                   |
|------------------------------------------|---------------------------------------------------------------------------------------------------|
| Cable identification                     | P05                                                                                               |
| Cable Type                               | 3                                                                                                 |
| Function cable                           | Power                                                                                             |
| Amount stranding                         | 1                                                                                                 |
| Stranding                                | 5 wires around core filler twisted                                                                |
| Filler                                   | yes                                                                                               |
| Wire arrangement                         | green-yellow, Black, blue 3, white 2, brown 1                                                     |
| Cable weight                             | 118 g/m                                                                                           |
| Material wire insulation                 | PP                                                                                                |
| Amount wires                             | 5                                                                                                 |
| Outer diameter insulation                | 2.3 mm                                                                                            |
| Outer diameter tolerance core insulation | ± 0.1 mm                                                                                          |
| Shore hardness wire insulation           | 60 ± 5 Shore D                                                                                    |
| Ingredient freeness wire insulation      | CFC-free, cadmium-free, silicone-free, halogen-free, lead-free                                    |
| Printing color of wire insulation        | white (isolation blue), white (isolation brown), white (isolation black), black (white isolation) |
| Amount strands (wire)                    | 84                                                                                                |
| Diameter of single wires                 | 0.15 mm                                                                                           |
| Conductor crosssection (wire)            | 1.5 mm <sup>2</sup>                                                                               |
| Material conductor wire                  | Stranded copper wire, bare                                                                        |
| Conductor type (wire)                    | strand class 6                                                                                    |
| Outer-diameter (jacket)                  | 8.2 mm                                                                                            |
| Tolerance outer diameter (sheath)        | ± 5 %                                                                                             |
| Material jacket                          | PUR                                                                                               |
| Shore hardness jacket                    | 90 ± 5 Shore A                                                                                    |
| 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)              | 13.3 Ω/km @ 20 °C                                                                                 |
| Nominal voltage AC max.                  | 1,000 V                                                                                           |
| Withstand voltage (wire - wire)          | 10 kV @ 60 s                                                                                      |
| Withstand voltage (wire - jacket)        | 10 kV @ 60 s                                                                                      |
| Current load capacity (standard)         | to DIN VDE 0298-4                                                                                 |
| Current load capacity min. wire          | 13.5 A                                                                                            |
| Min. operating temperature (static)      | -50 °C                                                                                            |
| Max. operating temperature (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                                                                 |
| Bending radius (fixed)                   | 5 × Outer diameter                                                                                |
| Bending radius (dynamic)                 | 10 × Outer diameter                                                                               |
| No. of bending cycles (C-track)          | 5 Mio. @ 25 °C                                                                                    |
| Traversing distance (C-track)            | 5 m @ 25 °C                                                                                       |
| Travel speed (C-track)                   | 3.3 m/s @ 25 °C                                                                                   |
| Acceleration (C-track)                   | 5 m/s <sup>2</sup> @ 25 °C                                                                        |
| No. of torsion cycles                    | 5 Mio.                                                                                            |
| Torsion stress                           | 180 °C                                                                                            |
| Torsion speed                            | 35 cycles/min                                                                                     |