

M12 Power male 0° / female 0° L-cod.

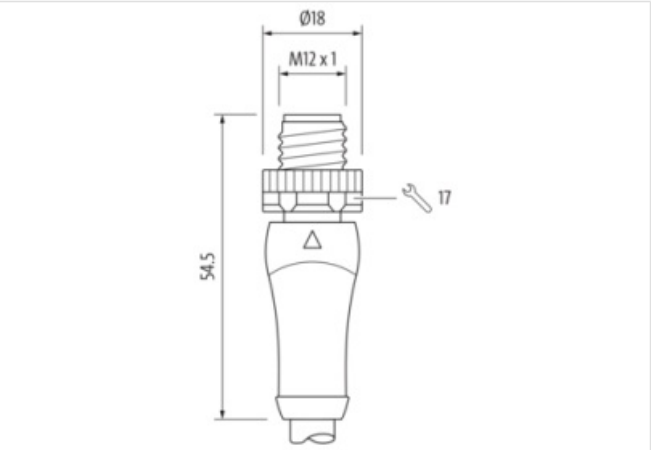
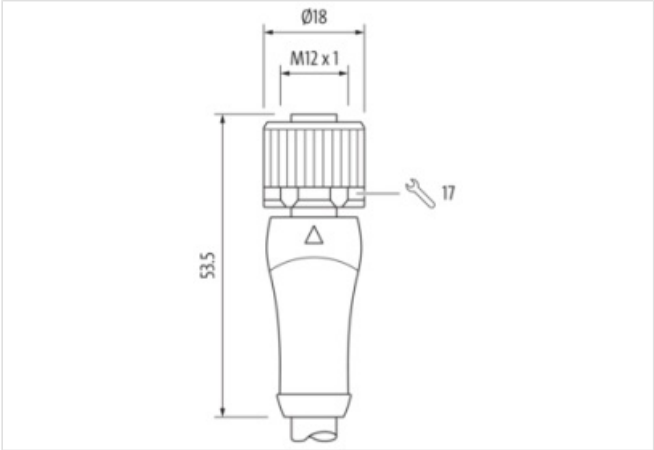
PUR 5x1.5 bk UL/CSA+drag ch. 15m

Art.No.: 7000-P4241-P041500  
Weight: 2.007  
Country of origin: DE  
Model designation: MSWBLL0-WAL-UP04\_15.0

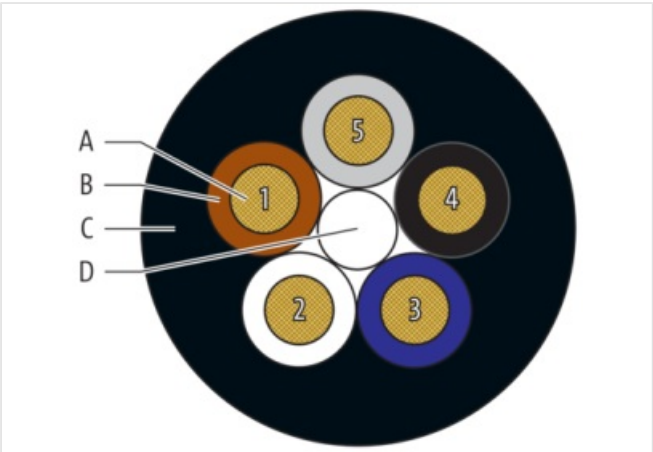
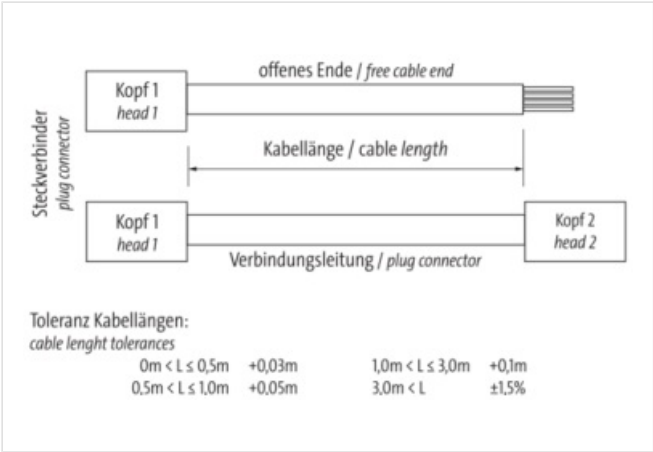
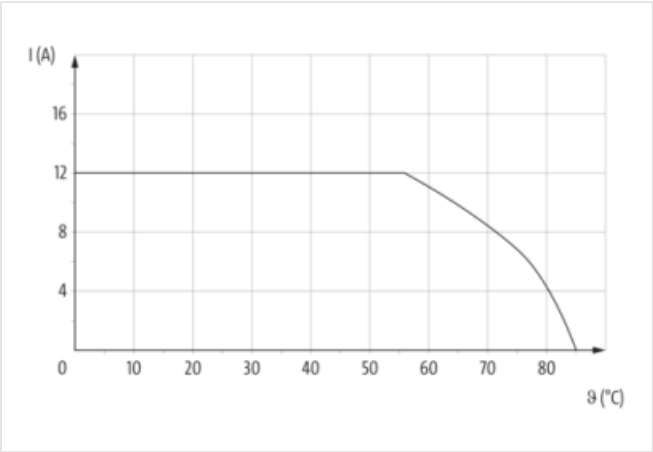
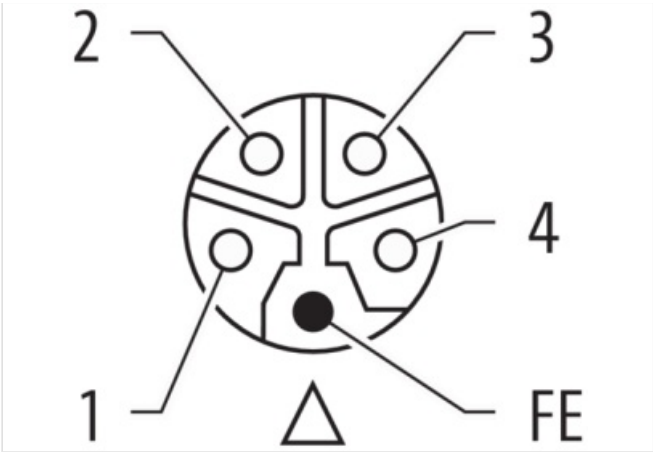
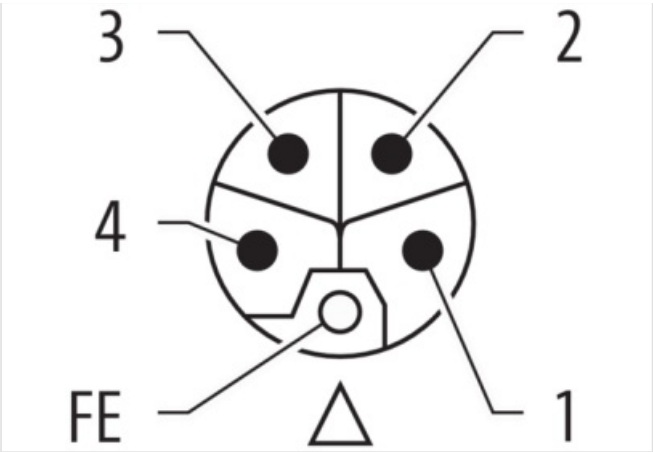
Power  
M12 – M12, 5-pole  
Male straight – female straight  
L-coded  
with cable sleeves  
Plastic housings with good resistance against chemicals and oils.  
The resistance to aggressive media should be individually tested for your application. Further details on request.  
Further cable lengths on request.

Link to Product

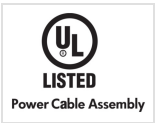
Illustration



|    |      |    |
|----|------|----|
| 1  | BN 1 | 1  |
| 2  | WH 2 | 2  |
| 3  | BU 3 | 3  |
| 4  | BK 4 | 4  |
| FE | GY 5 | FE |



Product may differ from Image



Header

Material short text MSWBLL0-WAL-UP04\_15.0

Cable length 15,00 m

Side 1

|                                           |                          |
|-------------------------------------------|--------------------------|
| Family construction form                  | M12P                     |
| No. of poles                              | 5                        |
| Coding                                    | L                        |
| Gender                                    | male                     |
| 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, IP66K, IP67, IP69K |

#### Side 2

|                                           |                          |
|-------------------------------------------|--------------------------|
| Family construction form                  | M12P                     |
| No. of poles                              | 5                        |
| Coding                                    | L                        |
| 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, IP66K, IP67, IP69K |

#### Commercial data

|                       |                                                                                                                     |
|-----------------------|---------------------------------------------------------------------------------------------------------------------|
| URL Webshop           | <a href="https://shop.murrelektronik.com/7000-P4241-P041500">https://shop.murrelektronik.com/7000-P4241-P041500</a> |
| GTIN                  | 4048879800549                                                                                                       |
| 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                   | 4048879800549                                                                                                       |

Packaging unit 1

#### Electrical data | Supply

Operating voltage DC max. 63 V  
Current operating per contact max. 12 A

#### Installation | Connection

Width across flats SW17  
Mating cycles min. 100

#### Device protection | Electrical

Degree of protection (EN IEC 60529) IP65, IP66K, IP67, IP69K  
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 housing PUR  
Material screw connection Brass  
Coating of fitting nickel plated  
Material gasket FKM

#### Mechanical data | Mounting data

Mounting method inserted, screwed, Shaking protection

#### Environmental characteristics | Climatic

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 **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 61076-2-111

#### Installation | Cable

Cable identification P04  
Cable Type 3  
Function cable Power  
Amount stranding 1  
Stranding 5 wires around core filler twisted  
Filler yes  
Cable weight 118 g/m  
Material wire insulation PP  
Amount wires 5  
Outer diameter insulation 2.3 mm  
Outer diameter tolerance core insulation  $\pm 0.1$  mm  
Shore hardness wire insulation  $60 \pm 5$  Shore D  
Ingredient freeness wire insulation lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  
Printing color of wire insulation white (isolation blue), white (isolation brown), white (isolation black), black (white isolation), white (gray 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)       | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free              |
| Material property (jacket)              | abrasion-resistant, low adhesion, good machinability, matte                 |
| 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                                           |
| Operating temperature min. (drag chain) | -25 °C                                                                      |
| Operating temperature max. (drag chain) | 80 °C / 90 °C @ 10000 h Operation                                           |
| Flame resistance                        | UL 1581 § 1080, CSA FT2, IEC 60332-1-2, IEC 60332-2-2                       |
| Oil resistance                          | IEC 60811-404                                                               |
| Chemical resistance                     | good                                                                        |
| Other resistances                       | resistant to hydrolysis, resistant to microbes, good resistance to gasoline |
| 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/s² @ 25 °C                                                              |
| No. of torsion cycles                   | 5 Mio.                                                                      |
| Torsion stress                          | ± 180 °/m @ 180 °C                                                          |
| Torsion speed                           | 35 cycles/min                                                               |