

## M12 Power male 0° / female 90° L-cod.

PUR 4x1.5 bk UL/CSA+drag ch. 1.5m

Power M12 – M12, 4-pole Male straight Female 90° 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.

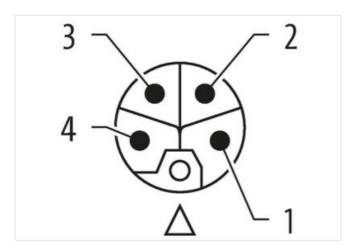
Further cable lengths on request.

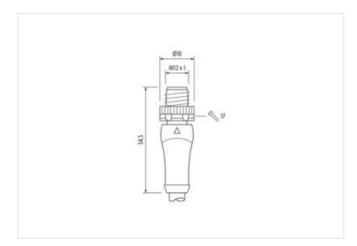
## **Link to Product**

## Illustration



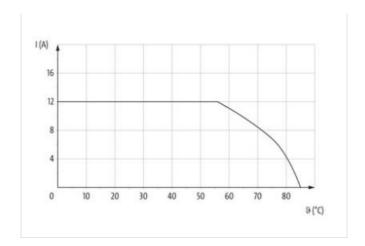


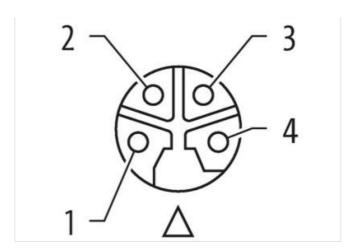


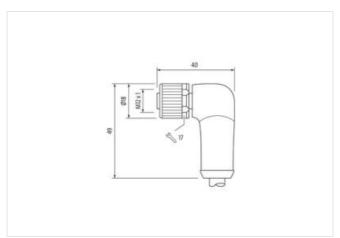




stay connected







Product may differ from Image









| Cable length                              | 1,5 m             |
|---|-------------------|
| Side 1                                    |                   |
| Tightening torque                         | 0,6 Nm            |
| Mounting method                           | inserted, screwed |
| Coating contact                           | gold plated       |
| Family construction form                  | M12P              |
| Thread                                    | M12 x 1           |
| suitable for corrugated tube (internal Ø) | 12 mm             |
| Coding                                    | L                 |
| Material contact                          | Copper alloy      |
| No. of poles                              | 4                 |
| Side 2                                    |                   |
| Tightening torque                         | 0,6 Nm            |
| Mounting method                           | inserted, screwed |
| Coating contact                           | gold plated       |
| Family construction form                  | M12P              |
| Thread                                    | M12 x 1           |
| Coding                                    | L                 |

The information in this Product-PDF has been compiled with the utmost care. Liability for the correctness completeness and topicality of the information is restricted to gross negligence. Version: 2024-05-07



| Material contact  | Copper alloy  |
|---|---|
| No. of poles  | 4   |
| Commercial data   |   |
| ECLASS-6.0  | 27279218  |
| ECLASS-6.1  | 27279218  |
| ECLASS-7.0  | 27279218  |
| ECLASS-8.0  | 27279218  |
| ECLASS-9.0  | 27060327  |
| ECLASS-10.1   | 27060311  |
| ECLASS-11.1   | 27060311  |
| ECLASS-12.0   | 27060327  |
| ETIM-5.0  | EC001855  |
| customs tariff number   | 85444290  |
| GTIN  | 4048879781787   |
| Packaging unit  | 1   |
| Electrical data   Supply  |   |
| Operating voltage DC max.   | 63 V  |
| Current operating per contact max.  | 12 A  |
| Diagnostics   |   |
| Status indication LED   | 20  |
|   | no  |
| Installation   Connection   |   |
| Width across flats  | SW17  |
| Device protection   Electrical  |   |
| Degree of protection (EN IEC 60529)   | IP65, IP67  |
| Additional condition protection degree  | inserted, screwed   |
| Additional condition protection degree  |   |
| Pollution Degree  | 3   |
| Pollution Degree<br>Rated surge voltage   | 3<br>1,5 kV   |
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| Pollution Degree Rated surge voltage Material group (IEC 60664-1)   | 3<br>1,5 kV   |
| Pollution Degree Rated surge voltage Material group (IEC 60664-1)  Mechanical data   Material data  | 3<br>1,5 kV   |
| Pollution Degree Rated surge voltage Material group (IEC 60664-1)  Mechanical data   Material data Coating locking  | 3<br>1,5 kV<br>I<br>Nickeled  |
| Pollution Degree Rated surge voltage Material group (IEC 60664-1)  Mechanical data   Material data Coating locking Material gasket  | 3 1,5 kV I Nickeled FKM   |
| Pollution Degree Rated surge voltage Material group (IEC 60664-1)  Mechanical data   Material data  Coating locking  Material gasket  Material housing  | 3 1,5 kV I  Nickeled FKM PUR  |
| Pollution Degree Rated surge voltage Material group (IEC 60664-1)  Mechanical data   Material data Coating locking Material gasket Material housing Locking material  | 3 1,5 kV I  Nickeled FKM PUR  |
| Pollution Degree Rated surge voltage Material group (IEC 60664-1)  Mechanical data   Material data Coating locking Material gasket Material housing Locking material  Mechanical data   Mounting data Mounting method   | 3 1,5 kV I Nickeled FKM PUR Zinc die-casting  |
| Pollution Degree Rated surge voltage Material group (IEC 60664-1)  Mechanical data   Material data Coating locking Material gasket Material housing Locking material  Mechanical data   Mounting data Mounting method  Environmental characteristics   Climatic   | 3 1,5 kV I Nickeled FKM PUR Zinc die-casting inserted, screwed, Shaking protection  |
| Pollution Degree Rated surge voltage Material group (IEC 60664-1)  Mechanical data   Material data Coating locking Material gasket Material housing Locking material  Mechanical data   Mounting data Mounting method  Environmental characteristics   Climatic Operating temperature min.  | 3 1,5 kV I Nickeled FKM PUR Zinc die-casting inserted, screwed, Shaking protection -25 °C   |
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| Type of Certificate                               | cURus   |
|---|---|
| Amount stranding                                  | 1   |
| Stranding   | 4 wires twisted   |
| wire arrangement                                  | black 4, blue 3, white 2, brown 1   |
| Cable weigth                                      | 114,4 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)                           | 7,2 mm  |
| Tolerance outer diameter (sheath)                 | ±5%   |
| Material wire insulation                          | PP  |
| Amount wires                                      | 4   |
| Outer diameter insulation                         | 2,3 mm  |
| Outer diameter tolerance core insulation          | ±5%   |
| Shore hardness wire insulation                    | 60 ± 5 Shore D  |
| Ingredient freeness wire insulation               | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free                                    |
| Printing color of wire insulation                 | black (white isolation), white (isolation blue), white (isolation brown), white (isolation black) |
| 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  |
| Nominal voltage AC max.                           | 1000 V  |
| Current load capacity (standard)                  | to DIN VDE 0298-4   |
| Current load capacity min. wire                   | 14,4 A  |
| Electrical resistance line constant wire          | 13,3 Ω/km @ 20 °C   |
| AC withstand voltage (wire - wire)                | 10 kV @ 60 s  |
| Power frequency withstand voltage (wire - jacket) | 10 kV @ 60 s  |
| Min. operating temperature (static)               | -50 °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   |
| UV resistance                                     | DIN EN ISO 4892-2 A   |
| 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)                            | 7,5 x Outer diameter  |
| Bending radius (dynamic)                          | 10 x 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   |
| No. of torsion cycles                             | 2 Mio. 25 °C  |
| Torsion stress                                    | ± 180 °/m   |
| Torsion speed                                     | 35 cycles/min   |