

## M12 male 0° / M12 female 90° A-cod. LED F&B Pro

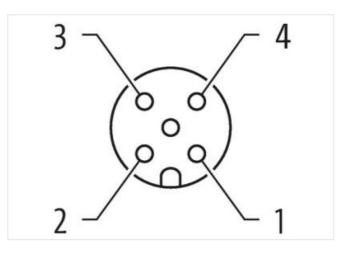
TPE-S 4x0.34 bu UL robot+drag ch. 1m

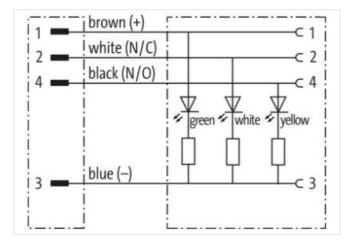
Plug Connectors for Food & Beverage The resistance to aggressive media should be individually tested for your application. Further details on request. Further cable lengths on request. Male straight Female 90° with LED M12 F&B Pro 4-pole Stainless steel 1.4404 (V4A) without cable sleeves IP69K Plastic housings with good resistance against chemicals and oils.

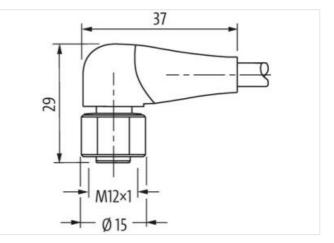
## Link to Product

Illustration



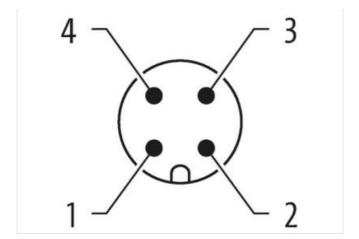


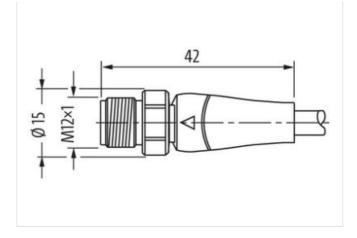




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Product may differ from Image

| Cable length                        | 1 m                  |
|-------------------------------------|----------------------|
| Side 1                              |                      |
| Tightening torque                   | 0.6 Nm               |
| Mounting method                     | inserted, screwed    |
| Coating contact                     | gold plated          |
| Family construction form            | M12                  |
| Thread                              | M12 x 1              |
| Coding                              | A                    |
| Material contact                    | Copper alloy         |
| No. of poles                        | 4                    |
| Width across flats                  | SW14                 |
| Degree of protection (EN IEC 60529) | IP65, IP68, IP69K    |
| Side 2                              |                      |
| Tightening torque                   | 0.6 Nm               |
| Mounting method                     | inserted, screwed    |
| Coating contact                     | gold plated          |
| Family construction form            | M12                  |
| Thread                              | M12 x 1              |
| Coding                              | A                    |
| Material contact                    | Copper alloy         |
| No. of poles                        | 4                    |
| Degree of protection (EN IEC 60529) | IP65, IP68, IP69K    |
| Commercial data                     |                      |
|                                     | 07070040             |
| ECLASS-6.0                          | 27279218             |
| ECLASS-6.1                          | 27279218             |
| ECLASS-7.0<br>ECLASS-8.0            | 27279218<br>27279218 |
| ECLASS-9.0                          |                      |
| ECLASS-9.0<br>ECLASS-10.1           | 27060311<br>27060311 |
| ECLASS-10.1<br>ECLASS-11.1          | 27060311             |
| ECLASS-11.1<br>ECLASS-12.0          | 27060311             |
| ETIM-5.0                            | EC001855             |
| customs tariff number               |                      |
|                                     | 85444290             |
| GTIN                                | 4048879768290        |
| Packaging unit                      | 1                    |
| Electrical data   Supply            |                      |
|                                     |                      |

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| Operating voltage DC  | 24 V  |
|---|---|
| Operating voltage DC min.   | 18 V  |
| Operating voltage DC max.   | 30 V  |
| Current operating per contact max.  | 4 A   |
| Diagnostics   |   |
| Status indication LED   |   |
|   | green, white, yellow  |
| Device protection   Electrical  |   |
| Additional condition protection degree  | inserted, screwed   |
| Pollution Degree  | 3   |
| Rated surge voltage   | 0,8 kV  |
| Material group (IEC 60664-1)  | 1   |
| Mechanical data   |   |
| Contour for corrugated hose   | without   |
| Mechanical data   Material data   |   |
| Color contact carrier   | ice blue  |
| Material gasket   | EPDM  |
| Material housing  | PP  |
| Material contact carrier  | PP  |
| Locking material  | Stainless steel 1.4404 (V4A)  |
| Mechanical data   Mounting data   |   |
| Mounting method   | inserted, screwed, Shaking protection   |
| 0   | inserted, screwed, Shaking protection   |
| Environmental characteristics   Climatic  |   |
| Operating temperature min.  | -40 °C  |
| Operating temperature max.  | 85 °C   |
| Additional condition temperature range  | depending on cable quality  |
| Important installation notes  |   |
| Note on strain relief   | Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.   |
| Note on bending radius  | Attention: Observe the permissible bending radii when laying cables, as the IP protection class can be<br>endangered by excessive bending forces. |
| Conformity  |   |
| Product standard  | DIN EN 61076-2-101 (M12), FDA conform   |
| Installation   Cable  |   |
| wire arrangement  | brown, black, blue, white   |
| Cable identification  | 321   |
| Jacket Color  | blue  |
| Amount stranding  | 1   |
| Stranding   | 4 wires twisted   |
| wire arrangement  | brown, black, blue, white   |
| Cable weigth  | 29,7 g/m  |
| Material jacket   | TPE-S   |
| Shore hardness jacket   | 47 ± 5 Shore D  |
| Freedom from ingredients (jacket)   | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free  |
| Outer-diameter (jacket)   | 4,7 mm  |
| Tolerance outer diameter (sheath)   | ±5%   |
| Material wire insulation  | PP  |
|   |   |
| Amount wires  | 4   |
|   | 4<br>1,27 mm  |
| Amount wires  |   |
| Amount wires<br>Outer diameter insulation   | 1,27 mm   |
| Amount wires<br>Outer diameter insulation<br>Outer diameter tolerance core insulation | 1,27 mm<br>± 5 %  |

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| Diameter of single wires                 | 0,1 mm   |
|--|--|
| Conductor crosssection (wire)            | 0,34 mm <sup>2</sup>                                 |
| Material conductor wire                  | Stranded copper wire, bare                           |
| Conductor type (wire)                    | strand class 6                                       |
| Nominal voltage AC max.                  | 300 V  |
| Current load capacity (standard)         | to DIN VDE 0298-4                                    |
| Current load capacity min. wire          | 4,8 A  |
| Electrical resistance line constant wire | 58 Ω/km @ 20 °C                                      |
| AC withstand voltage (wire - wire)       | 3 kV @ 60 s  |
| Min. operating temperature (static)      | -40 °C   |
| Max. operating temperature (fixed)       | 105 °C   |
| Operating temperature min. (dynamic)     | -25 °C   |
| Operating temperature max. (dynamic)     | 105 °C   |
| Flame resistance                         | UL 1581 § 1100 FT2   UL 1581 § 1090   IEC 60332-2-2  |
| chemical resistance                      | Good, application-related testing                    |
| Gasoline resistance                      | Good, application-related testing                    |
| Oil resistance                           | DIN EN 60811-404   Good, application-related testing |
| Bending radius (fixed)                   | 5 x Outer diameter                                   |
| Bending radius (dynamic)                 | 10 x Outer diameter                                  |
| No. of bending cycles (C-track)          | 4 Mio. @ 25 °C                                       |
| Traversing distance (C-track)            | 10 m @ 25 °C   horizontal                            |
| Travel speed (C-track)                   | 3 m/s @ 25 °C  |
| No. of torsion cycles                    | 2 Mio.   |
| Torsion stress                           | ± 180 °/m  |
| Torsion speed                            | 35 cycles/min  |

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