

**M12 male 0° / M8 female 90° A-cod. LED**

PVC 3x0.25 bk UL/CSA 4m

Male straight – female 90°

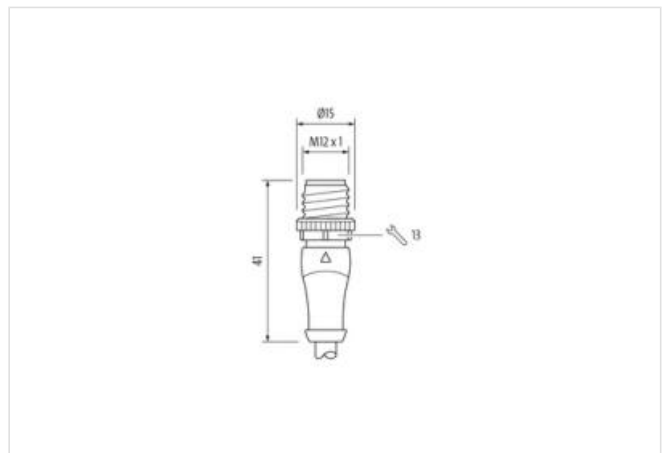
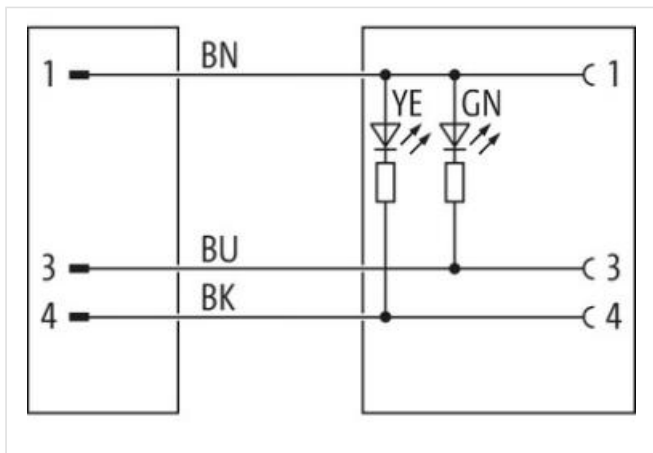
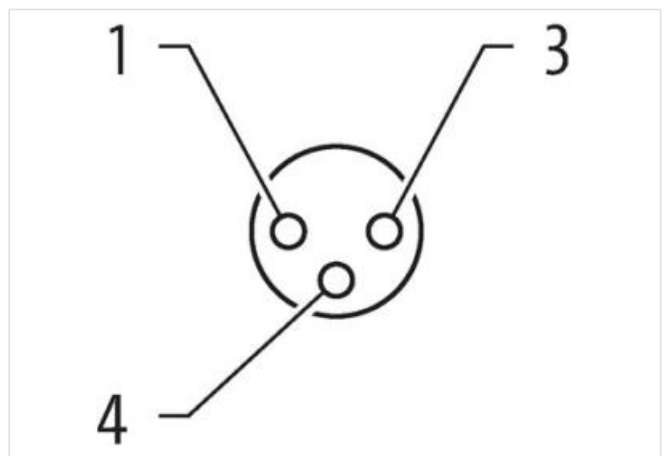
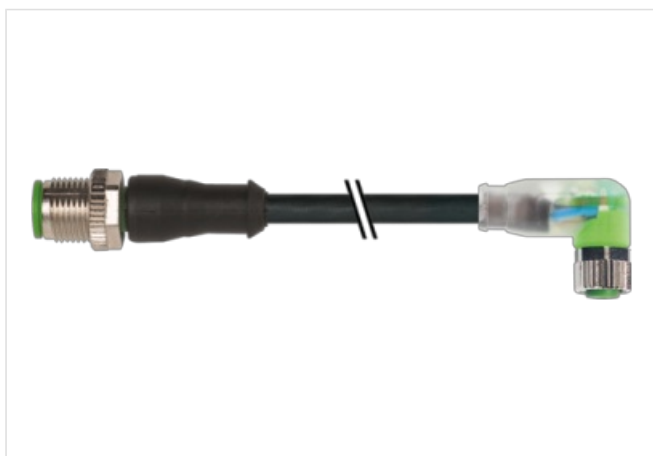
M12 – M8, 3-pole

LED (yellow/green)

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**



Product may differ from Image



|                                           |                   |
|-------------------------------------------|-------------------|
| Cable length                              | 4 m               |
| Side 1                                    |                   |
| Tightening torque                         | 0,6 Nm            |
| Mounting method                           | inserted, screwed |
| Coating contact                           | gold plated       |
| Family construction form                  | M12               |
| Thread                                    | M12 x 1           |
| suitable for corrugated tube (internal Ø) | 10 mm             |
| Material contact                          | Copper alloy      |
| Material                                  | PUR               |
| No. of poles                              | 3                 |
| Width across flats                        | SW13              |
| Degree of protection (EN IEC 60529)       | IP66K, IP67       |
| Side 2                                    |                   |
| Tightening torque                         | 0,4 Nm            |
| Mounting method                           | inserted, screwed |
| Coating contact                           | gold plated       |
| Family construction form                  | M8                |
| Thread                                    | M8 x 1            |
| suitable for corrugated tube (internal Ø) | 6,5 mm            |
| Material contact                          | Copper alloy      |
| Material                                  | PUR               |
| No. of poles                              | 3                 |
| Width across flats                        | SW9               |
| Degree of protection (EN IEC 60529)       | IP66K, IP67       |
| 取引条件                                      |                   |
| ECLASS-6.0                                | 27279218          |
| ECLASS-7.0                                | 27279218          |
| ECLASS-8.0                                | 27279218          |
| ECLASS-9.0                                | 27060311          |
| ECLASS-10.1                               | 27060311          |
| ECLASS-11.1                               | 27060311          |

|                                          |                                                                                                                                                       |
|------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| ECLASS-12.0                              | 27060311                                                                                                                                              |
| ETIM-5.0                                 | EC001855                                                                                                                                              |
| GTIN                                     | 4048879311069                                                                                                                                         |
| HSコード                                    | 85444290                                                                                                                                              |
| Packaging unit                           | 1                                                                                                                                                     |
| Electrical data   Supply                 |                                                                                                                                                       |
| Operating voltage DC                     | 24 V                                                                                                                                                  |
| Operating voltage DC min.                | 18 V                                                                                                                                                  |
| Operating voltage DC max.                | 30 V                                                                                                                                                  |
| Operating voltage DC max. (UL-listed)    | 30 V                                                                                                                                                  |
| Current operating per contact max.       | 4 A                                                                                                                                                   |
| Current consumption max.                 | 5 mA                                                                                                                                                  |
| Diagnostics                              |                                                                                                                                                       |
| Status indication LED                    | green, yellow                                                                                                                                         |
| Device protection   Electrical           |                                                                                                                                                       |
| Additional condition protection degree   | inserted, screwed                                                                                                                                     |
| Pollution Degree                         | 3                                                                                                                                                     |
| Rated surge voltage                      | 0,8 kV                                                                                                                                                |
| Material group (IEC 60664-1)             | I                                                                                                                                                     |
| Mechanical data   Material data          |                                                                                                                                                       |
| Coating locking                          | Nickeled                                                                                                                                              |
| Coating of fitting                       | nickel plated                                                                                                                                         |
| Material gasket                          | FKM                                                                                                                                                   |
| Locking material                         | Zinc die-casting                                                                                                                                      |
| Material screw connection                | Zinc die-casting                                                                                                                                      |
| 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 strain relief                    | Protect the connectors by suitable measures from mechanical loads, e.g. by the usage of cable ties.                                                   |
| 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. |
| Conformity                               |                                                                                                                                                       |
| Product standard                         | DIN EN 61076-2-101 (M12), DIN EN 61076-2-114 (M8)                                                                                                     |
| Installation   Cable                     |                                                                                                                                                       |
| wire arrangement                         | brown, black, blue                                                                                                                                    |
| Cable identification                     | 610                                                                                                                                                   |
| Cable Type                               | 1                                                                                                                                                     |
| Jacket Color                             | black                                                                                                                                                 |
| Type of Certificate                      | cURus                                                                                                                                                 |
| Amount stranding                         | 1                                                                                                                                                     |
| Stranding                                | 3 wires twisted                                                                                                                                       |
| wire arrangement                         | brown, black, blue                                                                                                                                    |
| Cable weight                             | 29,37 g/m                                                                                                                                             |
| Material jacket                          | PVC                                                                                                                                                   |
| Shore hardness jacket                    | 85 ± 5 Shore A                                                                                                                                        |
| Freedom from ingredients (jacket)        | lead-free, cadmium-free, CFC-free, silicone-free                                                                                                      |
| Outer-diameter (jacket)                  | 4,5 mm                                                                                                                                                |

|                                                   |                                                      |
|---------------------------------------------------|------------------------------------------------------|
| Tolerance outer diameter (sheath)                 | ± 5 %                                                |
| Material wire insulation                          | PVC                                                  |
| Amount wires                                      | 3                                                    |
| Outer diameter insulation                         | 1,25 mm                                              |
| Outer diameter tolerance core insulation          | ± 5 %                                                |
| Shore hardness wire insulation                    | 45 ± 5 Shore D                                       |
| Material properties wire insulation               | good machinability                                   |
| Ingredient freeness wire insulation               | lead-free, cadmium-free, CFC-free, silicone-free     |
| Amount strands (wire)                             | 14                                                   |
| Diameter of single wires                          | 0,15 mm                                              |
| Conductor crosssection (wire)                     | 0,25 mm²                                             |
| Material conductor wire                           | Stranded copper wire, bare                           |
| Conductor type (wire)                             | Strand class 5                                       |
| Nominal voltage AC max.                           | 300 V                                                |
| Current load capacity (standard)                  | to DIN VDE 0298-4                                    |
| Current load capacity min. wire                   | 4,5 A                                                |
| Electrical resistance line constant wire          | 79 Ω/km @ 20 °C                                      |
| AC withstand voltage (wire - wire)                | 2 kV @ 60 s                                          |
| Power frequency withstand voltage (wire - jacket) | 2 kV @ 60 s                                          |
| Min. operating temperature (static)               | -30 °C                                               |
| Max. operating temperature (fixed)                | 80 °C                                                |
| Operating temperature min. (dynamic)              | -5 °C                                                |
| Operating temperature max. (dynamic)              | 80 °C                                                |
| UV resistance                                     | DIN EN ISO 4892-2 A                                  |
| Flame resistance                                  | UL 1581 § 1090   IEC 60332-2-2   UL 1581 § 1100 FT2  |
| 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)                            | 5 x Outer diameter                                   |
| Bending radius (dynamic)                          | 10 x Outer diameter                                  |