

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

PUR 3x0.25 gy UL/CSA+drag ch. 0.3m

Art.No.: 7000-88281-2300030

Weight: 0.028 kg

Country of origin: DE

Model designation: MSDL1-H-R230_0.3

Advantages of our connectors:

Our connectors are versatile and specially optimised for industrial environments. All connectors are 100% tested during the manufacturing process to ensure the highest quality and reliability.

The contacts are gold-plated, which ensures optimum conductivity. Thanks to the high degree of protection, the connectors are ideal for demanding industrial environments. They are also vibration-resistant - this is ensured by the union nut with vibration protection.

Our connectors are resistant to oils and cooling lubricants, but resistance to aggressive media should be tested for each specific application. Different cable lengths available [on request](#)

If you are missing technical information? Please feel free to use our [dictionary](#) to find more technical details.

Product details:

Male straight – female 90°

M8 – M12, 3-pole

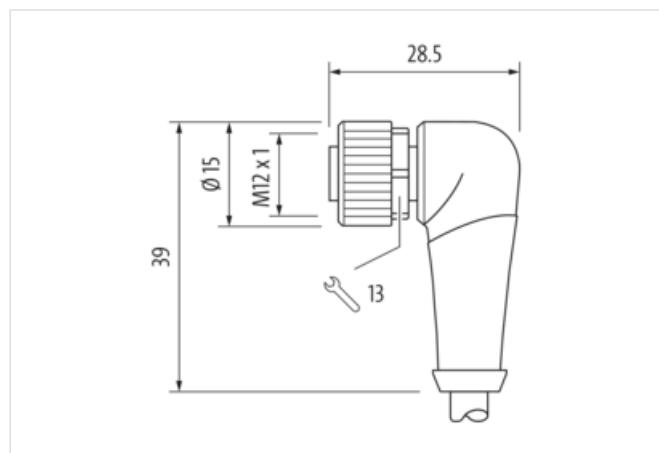
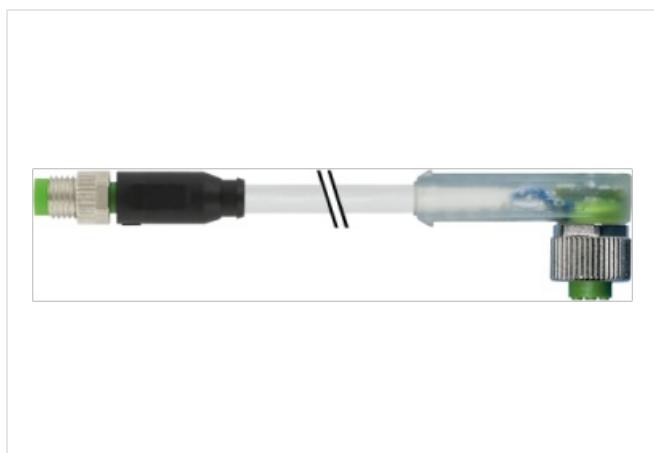
2x LED (PNP), (NPN) on request

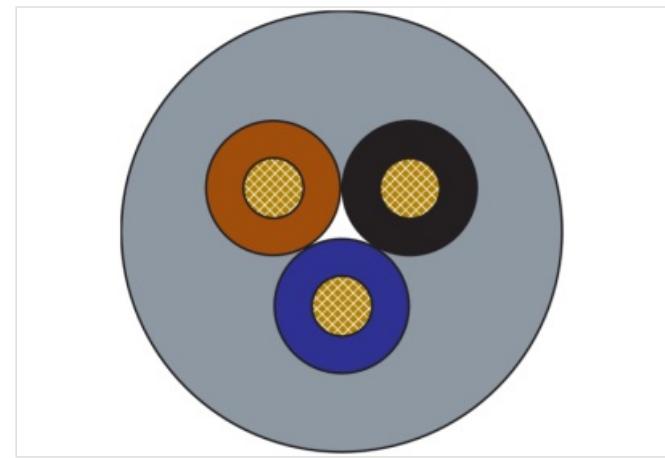
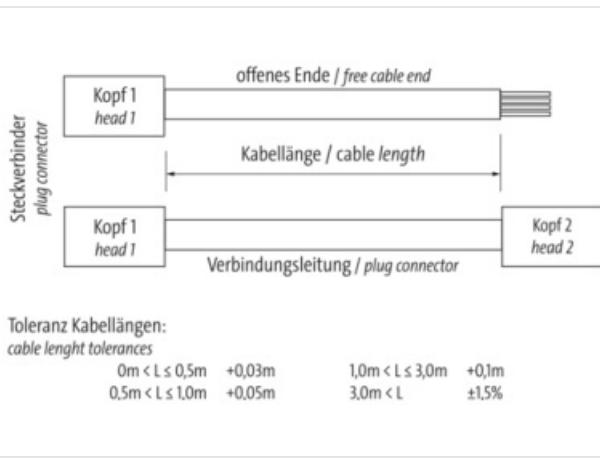
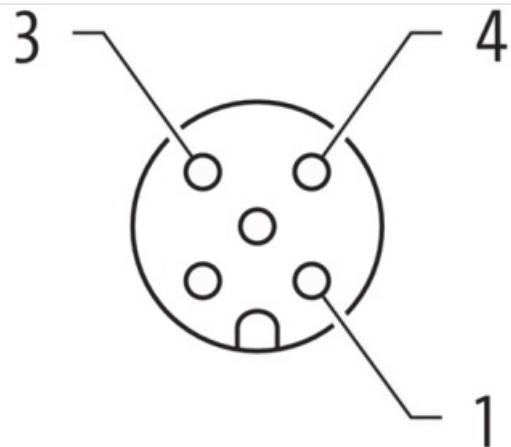
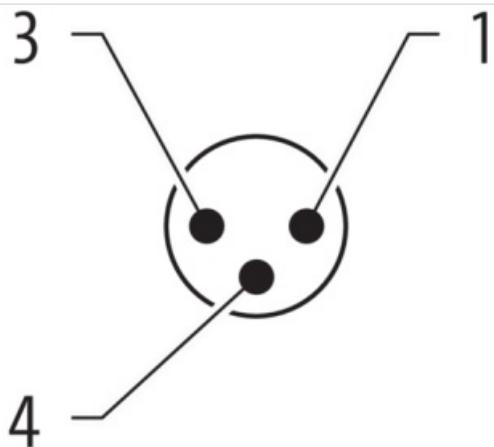
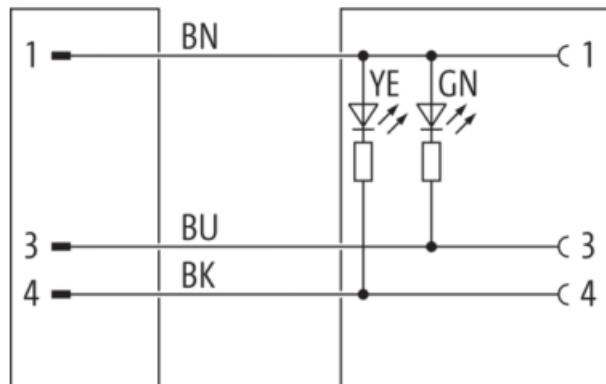
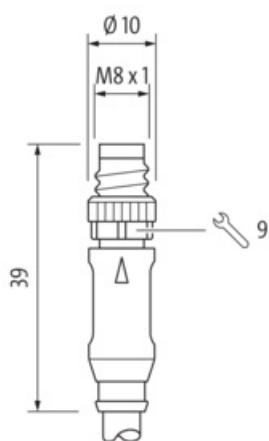
Art-No. 7005 - M12/M8 Lite - (plastic hexagonal screw) on request

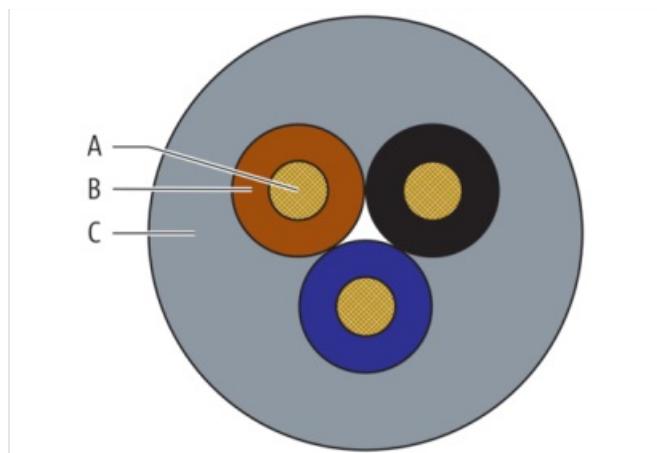
Further cable lengths on request.

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.

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






Product may differ from Image



Header

Cable length 0,30 m

Side 1

Family construction form M8
 No. of poles 3
 Coding A
 Gender male
 Mounting method pluggable, screwed
 Threaded hole M8 x 1
 Tightening torque 0,4 Nm
 Width across flats SW9
 Cable outlet straight
 suitable for corrugated tube (internal Ø) 6,5 mm
 Material contact Copper alloy
 Coating contact gold plated
 Degree of protection (EN IEC 60529) IP67, IP66K, IP65

Side 2

Family construction form M12
 No. of poles 3
 Coding A
 Gender female
 Mounting method pluggable, screwed
 Threaded hole M12 x 1
 Tightening torque 0,6 Nm
 Width across flats SW13
 Cable outlet angled
 suitable for corrugated tube (internal Ø) 10 mm
 Material contact Copper alloy
 Coating contact gold plated
 Degree of protection (EN IEC 60529) IP67, IP66K, IP65

Commercial data

URL Webshop <https://shop.murrelektronik.com/7000-88281-2300030>
 customs tariff number 85444290

| | |
|---|---|
| EAN | 4048879122016 |
| Packaging unit | 1 |
| Electrical data Supply | |
| Operating voltage DC | 24 V |
| Operating voltage DC min. | 18 V |
| Operating voltage DC max. | 30 V |
| Current operating per contact max. | 4 A |
| Operating voltage DC max. (UL-listed) | 30 V |
| Diagnostics | |
| Status indication LED | green, yellow |
| Device protection Electrical | |
| Degree of protection (EN IEC 60529) | IP67, IP68, IP66K, IP65 |
| 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 | |
| Material housing | PUR |
| Locking material | Zinc die-casting |
| Coating locking | Nickelated |
| 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 61076-2-101 (M12), EN IEC 61076-2-114 (M8) |
| Installation Cable | |
| Cable identification | 230 |
| Cable Type | 3 |
| Amount stranding | 1 |
| Stranding | 3 wires stranded |
| Wire arrangement | brown, black, blue |
| Cable weight | 24 g/m |
| Material wire insulation | PP |
| Amount wires | 3 |
| Outer diameter insulation | 1,25 mm |
| Outer diameter tolerance core insulation | ± 0,05 mm |
| Shore hardness wire insulation | 70 ± 5 Shore D |
| Ingredient freeness wire insulation | lead-free, cadmium-free, CFC-free, halogen-free, silicone-free |
| Amount strands (wire) | 32 |
| Diameter of single wires | 0,1 mm |
| Conductor crosssection (wire) | 0,25 mm ² |
| Material conductor wire | Stranded copper wire, bare |
| Conductor type (wire) | strand class 6 |

| | |
|---|---|
| Outer-diameter (jacket) | 4,1 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) | 79 Ω/km @ 20 °C |
| Nominal voltage max. | 300 V |
| Withstand voltage (wire - wire) | 2.5 kV @ 60 s |
| Withstand voltage (wire - jacket) | 2.5 kV @ 60 s |
| Current load capacity (standard) | to DIN VDE 0298-4 |
| Current load capacity max. (wire) | 4,5 A |
| Operating temperature min. (static) | -40 °C |
| Operating temperature max. (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 § 1090, CSA FT2, IEC 60332-2-2 |
| Oil resistance | IEC 60811-404 |
| Chemical resistance | good |
| Other resistances | good resistance to gasoline, resistant to hydrolysis, resistant to microbes |
| Bending radius (fixed) | 5 × Outer diameter |
| Bending radius (dynamic) | 10 × Outer diameter |
| No. of bending cycles (C-track) | 10 Mio. @ 25 °C |
| Traversing distance (C-track) | 10 m @ 25 °C horizontal |
| Travel speed (C-track) | 3 m/s @ 25 °C |
| Acceleration (C-track) | 10 m/s ² @ 25 °C |
| No. of torsion cycles | 2 Mio. |
| Torsion stress | ± 180 °/m |
| Torsion speed | 35 cycles/min |