Baumer
Passion for Sensors

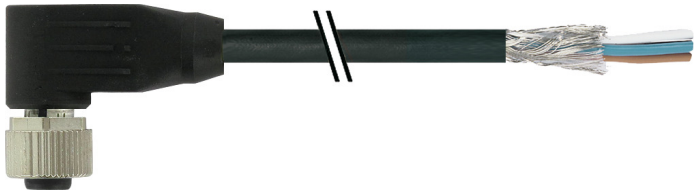
Supply cable

# CAM12.A12-11230412

Article Number: 11230412

## Overview

- M12, female, A-coded, 12-poles; PUR, 200 cm, shielded, free cable end
- Dragchain capable
- Head A: IP67
- Cable: good resistance against chemicals, flames, oils
- Halogen free



CE

## Technical data

| Side A | |
|---|---|
| Head A: Connection | M12 |
| Head A: Angle cable outlet | 90° |
| Head A: Gender | Female |
| Head A: Coding | A |
| Head A: No. of poles | 12 |
| Head A: LED | No |
| Head A: Width across flats | AF13 |
| Head A: Tightening torque | 0.6 Nm |
| Head A: Knurled nut material | Zinc-pressure die casting, surface Ni |
| Head A: Body color | Black |
| Head A: Gasket material | FKM |
| Labeling sleeve side A | Yes |
| Head A: Contact layout pin 1 | BN |
| Head A: Contact layout pin 2 | BU |
| Head A: Contact layout pin 3 | WH |
| Head A: Contact layout pin 4 | GN |
| Head A: Contact layout pin 5 | PK |
| Head A: Contact layout pin 6 | YE |
| Head A: Contact layout pin 7 | BK |
| Head A: Contact layout pin 8 | GY |
| Head A: Contact layout pin 9 | RD |
| Head A: Contact layout pin 10 | VT |
| Head A: Contact layout pin 11 | GYPK |
| Head A: Contact layout pin 12 | RDBU |
| **Side B** | |
| Head B: Connection | Open-ended wires |
| Labeling sleeve side B | Yes |

| Cables | |
|---|---|
| Cable length | 200 cm |
| Length tolerance | + 10 cm |
| Stripping length | 80 mm |
| Shielded | Yes |
| Conductor structure | 18 × 0.1 mm |
| AWG | 26 |
| External sheath: Material | PUR |
| External sheath: Color | Black |
| Cable diameter | 6.5 mm ± 5% |
| Wire cross section | 0.14 mm² |
| Cable: Halogen free | Yes |
| **Cable** | |
| Cable: Temperature range (mobile) | - 25 ...+ 80 °C |
| Cable: Temperature range (fixed) | - 40 ...+ 80 °C |
| Operating voltage (only UL listed) | 30 V AC/DC |
| Shielded | Yes |
| Shielding: Covering | approx. 80 % |
| Shielding attenuation | 80 |
| Bending radius (fixed) | 32.5 mm |
| Number of wires | 12 |
| Number and diameter of wires | 12x0.14 |
| Length tolerance | + 10 cm |
| Cable length | 200 cm |
| Acceleration (C-track) | max. 5 m/s² |
| AWG | 26 |
| Bending radius (fixed) | min. 5 × outer diameter |
| Torsion speed | max. 35 cycles/min |
| Bending radius (mobile) | min. 10 × outer diameter |
| Cable type | 3 |
| Cable weight | approx. 67.1 g/m |
| Conductor structure | 18 × 0.1 mm |
| Cable diameter | 6.5 mm ± 5% |
| Conductor: Material | Copper, bare |
| External sheath: Material | PUR |
| Insulation: Material | PP |

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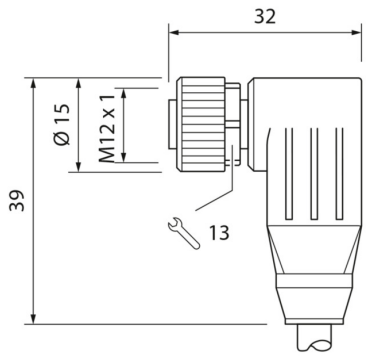
## Technical data

| Cable | |
|---|---|
| Shielding: Material | Copper, tinned |
| No. of bending cycles (C-track) | approx. 5000000 Cycles |
| Nominal voltage | 300 V |
| No. of torsion cycles | approx. 2000000 Cycles |
| Paired stranding | No |
| Single wire diameter | 0.1 mm |
| Cable: Test voltage | 2 kV AC core-core ; 2 kV AC core-shield |
| Torsion stress in ° | ± 30 °/m |
| Total stranding | 3 wires strand, above that 9 wires strand |
| Travel speed (C-track) | max. 3.3 m/s |
| Traversing path (horizontal) | max. 5 m |
| Wire cross section | 0.14 mm² |
| Wire processing | No |
| Wire diameter incl. isolation | 1 mm ± 5% |
| External sheath: Color | Black |
| **Electrical data** | |
| Operating voltage | max. 30 V AC/DC |
| Operating voltage (only UL listed) | 30 V AC/DC |
| Nominal voltage | 300 V |
| Contact resistance | max. 30 mOhm |
| Operating current per contact | max. 1.5 A |
| **Mechanical data** | |
| Head A: Degree of protection | IP65, IP66K, IP67 |
| Bending radius (mobile) | min. 10 × outer diameter |
| Bending radius (fixed) | min. 5 × outer diameter |
| No. of bending cycles (C-track) | approx. 5000000 Cycles |

| Mechanical data | |
|---|---|
| Torsion speed | max. 35 cycles/min |
| Torsion stress in ° | ± 30 °/m |
| No. of torsion cycles | approx. 2000000 Cycles |
| Acceleration (C-track) | max. 5 m/s² |
| Travel speed (C-track) | max. 3.3 m/s |
| **Environmental conditions** | |
| Temperature range (mobile) | - 25 ...+ 80 °C |
| Temperature range (fixed) | - 25 ...+ 80 °C |
| Cable: Temperature range (fixed) | - 40 ...+ 80 °C |
| Dragchain capable | Yes |
| Head A: Chemical resistance | No |
| Head A: Flame resistance | HB (UL 94) |
| Head A: Oil resistance | ASTM 1 oil, mineral oils, limited to hydraulic oils |
| Head A: Acid and alkali resistant | No |
| Head A: Pollution degree | 3 |
| Cable: Chemical resistance | Good (DIN EN 60811-404) |
| Cable: Flame resistance | Conform UL 1581 §1090 (H), CSA FT2, IEC 60332-2-2 |
| Cable: Oil resistance | Good (DIN EN 60811-404) |
| Cable: Silicone-free | Yes |
| Cable: UV resistance | Yes |
| **Commercial data** | |
| Eclass | 27060311 |

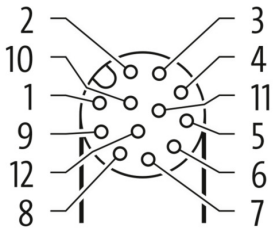
## Side A

### Technical drawing




## Side A

### Coding




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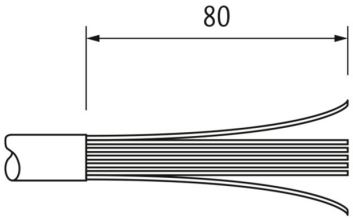
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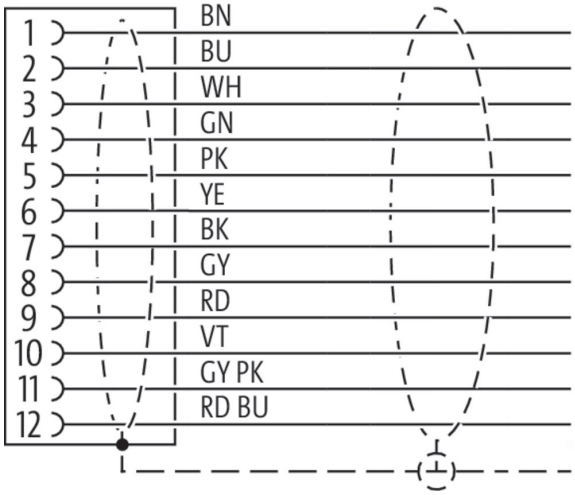
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## Side B

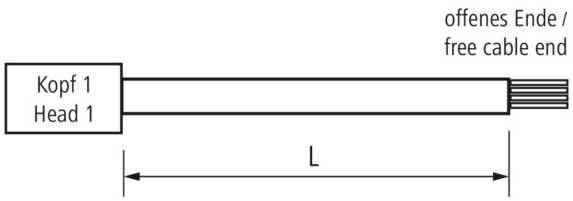
**Technical drawing**




## Connection diagram




## Dimension drawing




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