

**Overview**

- M12, male, A-coded, 4-poles; PUR, 1000 cm; M12, female, 90°, A-coded, 4-poles
- Dragchain capable, suitable for robotics  $\pm 180$  °/m
- Head A: IP65, IP66K, IP67
- Cable: good resistance against chemicals, flames and oils
- Halogen free



**Technical data**

| Side A                       |                                       | Cables                          |                                   |
|------------------------------|---------------------------------------|---------------------------------|-----------------------------------|
| Head A: Connection           | M12                                   | Wire cross section              | 0.34 mm <sup>2</sup>              |
| Head A: Angle cable outlet   | 0°                                    | <b>Cable</b>                    |                                   |
| Head A: Gender               | Male                                  | Shielded                        | No                                |
| Head A: Coding               | A                                     | Cable length                    | 1000 cm                           |
| Head A: No. of poles         | 5                                     | AWG                             | 22                                |
| Head A: LED                  | No                                    | Torsion speed                   | max. 35 cycles/min                |
| Head A: Width across flats   | AF13                                  | Cable type                      | 3                                 |
| Head A: Tightening torque    | 0.6 Nm                                | Wire 1: Color                   | BN                                |
| Head A: Knurled nut material | Zinc-pressure die casting, surface Ni | Wire 2: Color                   | BK                                |
| Head A: Body color           | Black                                 | Wire 3: Color                   | BU                                |
| Labeling sleeve side A       | Yes                                   | Wire 4: Color                   | WH                                |
| <b>Side B</b>                |                                       | Wire 5: Color                   | GY                                |
| Head B: Connection           | M12                                   | Conductor: Material             | Copper, bare                      |
| Head B: Angle cable outlet   | 90°                                   | External sheath: Material       | PUR                               |
| Head B: Gender               | Female                                | Insulation: Material            | PP                                |
| Head B: Coding               | A                                     | Paired stranding                | No                                |
| Head B: No. of poles         | 5                                     | Torsion stress in °             | $\pm 180$ °/m                     |
| Head B: LED                  | No                                    | Total stranding                 | 5 wires strand around core-filler |
| Head B: Width across flats   | AF13                                  | Wire cross section              | 0.34 mm <sup>2</sup>              |
| Head B: Knurled nut material | Zinc-pressure die casting, surface Ni | Wire processing                 | No                                |
| Head B: Body color           | Black                                 | External sheath: Color          | Black                             |
| Head B: Gasket material      | FKM                                   | <b>Mechanical data</b>          |                                   |
| Labeling sleeve side B       | Yes                                   | Head A: Degree of protection    | IP65, IP66K, IP67                 |
| <b>Cables</b>                |                                       | Head B: Degree of protection    | IP65, IP66K, IP67                 |
| Cable length                 | 1000 cm                               | Torsion speed                   | max. 35 cycles/min                |
| Shielded                     | No                                    | Torsion stress in °             | $\pm 180$ °/m                     |
| AWG                          | 22                                    | <b>Environmental conditions</b> |                                   |
| External sheath: Material    | PUR                                   | Dragchain capable               | Yes                               |
| External sheath: Color       | Black                                 |                                 |                                   |

**Technical data**
**Environmental conditions**

|                                   |  |
|-----------------------------------|--|
| Head A: Chemical resistance       | No   |
| Head A: Flame resistance          | HB (UL 94)   |
| Head A: Oil resistance            | Good resistance to ASTM 1 oil and mineral oils. Limited resistance to hydraulic oils. If other oils are used, the resistance must be checked in relation to the application. |
| Head A: Acid and alkali resistant | No   |
| Head A: Pollution degree          | 3  |
| Head B: Chemical resistance       | No   |
| Head B: Flame resistance          | HB (UL 94)   |
| Head B: Oil resistance            | Good resistance to ASTM 1 oil and mineral oils. Limited resistance to hydraulic oils. If other oils are used, the resistance must be checked in relation to the application. |

**Environmental conditions**

|                                   |                           |
|-----------------------------------|---------------------------|
| Head B: Acid and alkali resistant | No                        |
| Head B: Pollution degree          | 3                         |
| Cable: Chemical resistance        | Good (DIN EN 60811-404)   |
| Cable: Flame resistance           | Conform UL 1581 §1090 (H) |
| Cable: Oil resistance             | Good (DIN EN 60811-404)   |
| Cable: Silicone-free              | Yes                       |

**Commercial data**

|        |          |
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| Eclass | 27060311 |
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