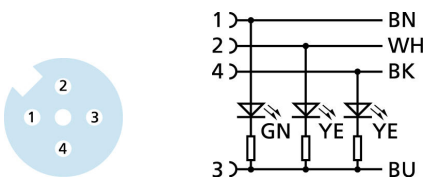


## M12, female, straight, 4 poles, with LED, sensor-/actuator cable



### Product data

|                    |                  |
|--------------------|------------------|
| Item description   | AL-WAK4P3-m/S370 |
| Item-No.           | V0011194         |
| Länge              | on demand        |
| Customs tariff-No. | 85444290         |
| Step-File          | AL-WAK4P3-L.stp  |

### Technical data

|                                |                                 |
|--------------------------------|---------------------------------|
| Connector                      | female, straight, M12, with LED |
| Number of pins                 | 4                               |
| Pin assignment                 | 1 BN, 2 WH, 3 BU, 4 BK          |
| Coding                         | A                               |
| Rated voltage                  | 30V                             |
| Current load per pin (at 40°C) | 4A                              |
| Insulation resistance          | $\geq 10^9 \Omega$              |
| Resistance                     | $\leq 5 m\Omega$                |
| Ambient temperature product    | -30°C...+90°C                   |
| Circuit logic                  | pnp                             |
| Signal status-indicator        | LED YE/YE                       |
| Operating voltage-indicator    | LED GN                          |
| Contact material               | Metal, CuZn, gold-plated        |
| Contact-carrier material       | Plastic, TPU, BK                |
| Grip body material             | Plastic, TPU, transparent       |
| Coupling nut material          | Metal, CuZn, nickel-plated      |
| Sealing (female) material      | FPM/FKM                         |
| Standards                      | IEC 61076-2-101                 |
| Degree of protection (mounted) | IP65, IP67, IP68                |
| Mechanical life-cycle          | >100 mating cycles              |
| Cable end assembly             | open cable end                  |
| Degree of pollution            | 3                               |
| Style                          | straight                        |

|                  |                      |
|------------------|----------------------|
| <b>Cable web</b> | <b>PUR, UL, S370</b> |
|------------------|----------------------|

Flexible, silicone- and halogen-free control line with high mechanical strength. The cable is chemicals, hydrolysis-, and microbes- resistant. The drag-chain application is possible at a bending radius of minimum 10 x d. Due to its weld-field immunity, the cable is very well suited for the flexible application in robotics, machine-tool, and metal-cutting production. The cables meet the UL and CSA (UL10493/20549; cULus) requirements.

|                                |  |
|--------------------------------|--|
| Outer diameter of jacket       | 4.70 mm  |
| Cable-jacket material          | PUR  |
| Jacket color                   | BK, similar RAL9005  |
| Wire cross-section             | 4 x 0.34 mm <sup>2</sup>   |
| Wire insulation material       | PP   |
| Wire colors                    | BN, WH, BU, BK   |
| Wire structure                 | 42 x 0.10 mm   |
| Bending radius (fixed)         | 5 x Ø-cable  |
| Bending radius (repeated)      | 10 x Ø-cable   |
| Temperature range (repeated)   | -30°C...+90°C  |
| Temperature range (fixed)      | -40°C...+90°C  |
| Temperature range (drag chain) | -25°C...+60°C  |
| Drag chain-application         | 5 Mio. cycles  |
| Halogen-free                   | Yes  |
| Torsion                        | +/-360°/m, ≥ 2 Mio. cycles   |
| Rated voltage cable            | ≤300 V   |
| Special features               | flame retardant, halogen free, hydrolysis proof, LABS free, oil resistant, ozone resistant, recyclable, RoHs compliant, acid- and alkali resistant, drag chain-adapted, welding sparks resistant, seawater resistant, silicone free, torsion resistant, UN ECE R 118, UV resistant |

### Classification

|            |          |
|------------|----------|
| eCl@ss 6.0 | 27279218 |
| eCl@ss 7.0 | 27279218 |
| eCl@ss 8.0 | 27279218 |
| eCl@ss 9.0 | 27060311 |
| ETIM 5.0   | EC001855 |
| ETIM 6.0   | EC001855 |

### Accessories

#### Mounting-clip, M12

<https://www.escha.net/en/products/standard/accessories-for-connectivity/8047660>

#### Torque-wrench set

<https://www.escha.net/en/products/standard/accessories-for-connectivity/8055431>

#### Marking rings Ø 9mm

<https://www.escha.net/en/products/standard/accessories-for-connectivity?p=1&o=3&n=15&f=809>

#### Screw plug, M12

<https://www.escha.net/en/products/standard/accessories-for-connectivity?p=1&o=3&n=15&f=812>

#### Cable Stripping Tool

<https://www.escha.net/en/products/standard/accessories-for-connectivity/8066215>

#### Cable Stripping Tool

<https://www.escha.net/en/products/standard/accessories-for-connectivity/8066216>