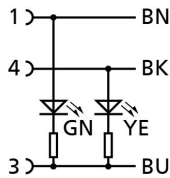
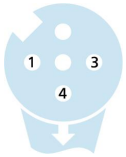
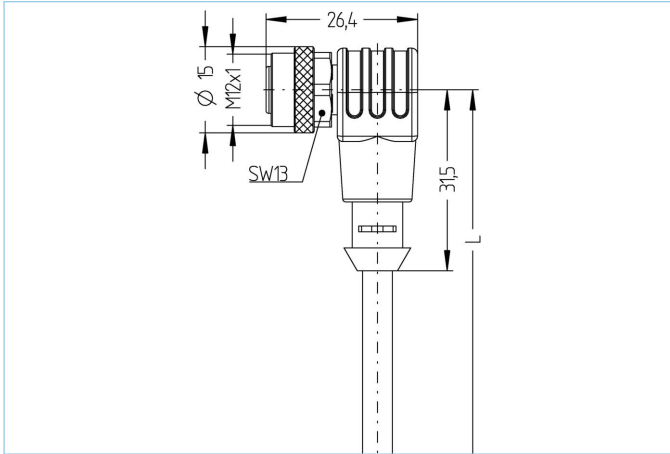


M12, female, angled, 3 poles, M12, female, angled, 3 poles, with LED, sensor-/actuator cable



Product data

|                    |                              |
|--------------------|------------------------------|
| Item description   | AL-WWAK3P2-m-AL-WWAK3P2/S370 |
| Item-No.           | V0004524                     |
| Länge              | on demand                    |
| Customs tariff-No. | 85444290                     |

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

**Cable web** PUR, UL, S370

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       | 4.30 mm  |
| Cable-jacket material          | PUR  |
| Jacket color                   | BK, similar RAL9005  |
| Wire cross-section             | 3 x 0.34 mm <sup>2</sup>   |
| Wire insulation material       | PP   |
| Wire colors                    | BN, 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, UV resistant |

**Accessories**
**Mounting-set, M12**

<https://www.escha.net/en/products/standard/accessories-for-connectivity/8047664>

**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>