

## M12, female, straight, 8 poles, sensor-/actuator cable



### Product data

|                    |                |
|--------------------|----------------|
| Item description   | AL-WAK8-m/S370 |
| Item-No.           | V0003203       |
| Länge              | on demand      |
| Customs tariff-No. | 85444290       |
| Step-File          | AL-WAK8.stp    |

### Technical data

|                                |  |
|--------------------------------|--|
| Connector                      | female, straight, M12                          |
| Number of pins                 | 8  |
| Pin assignment                 | 1 WH, 2 BN, 3 GN, 4 YE, 5 GY, 6 PK, 7 BU, 8 RD |
| Coding                         | A  |
| Rated voltage                  | 30V  |
| Current load per pin (at 40°C) | 2A   |
| Insulation resistance          | $\geq 10^9 \Omega$                             |
| Resistance                     | $\leq 5 m\Omega$                               |
| Ambient temperature product    | -30°C...+90°C                                  |
| Contact material               | Metal, CuZn, gold-plated                       |
| Contact-carrier material       | Plastic, TPU, BK                               |
| Grip body material             | Plastic, TPU, BK                               |
| 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                                       |

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

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| Outer diameter of jacket       | 5.90 mm  |
| Cable-jacket material          | PUR  |
| Jacket color                   | BK, similar RAL9005  |
| Wire cross-section             | 8 x 0.25 mm <sup>2</sup>   |
| Wire insulation material       | PP   |
| Wire colors                    | WH, BN, GN, YE, GY, PK, BU, RD   |
| Wire structure                 | 32 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         | ≥2 Mio. cycles   |
| Halogen-free                   | Yes  |
| Torsion                        | +/-180°/m, ≥ 0.5 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 |

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| <b>Classification</b> |  |
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| 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 |

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| <b>Accessories</b> |
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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>