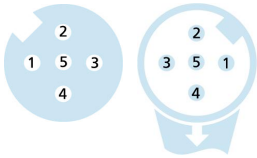
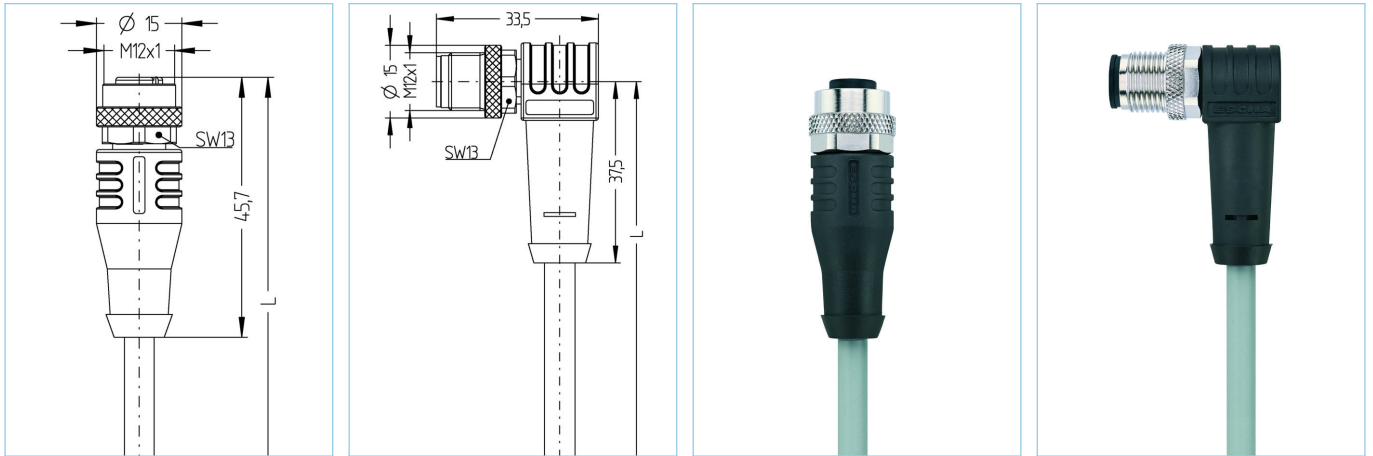


M12, female, straight, 5 poles, M12, male, angled, 5 poles, shielded, sensor-/actuator cable



| Product data       |                                 |
|--------------------|---------------------------------|
| Item description   | AL-WAKS4.5-2-AL-WWASS4.5/S370GY |
| Item-No.           | 8092208                         |
| Length             | 2m                              |
| Customs tariff-No. | 85444290                        |
| Step-File          | AL-WAKS4_5_AL-WWASS4_5.stp      |
| EAN                | 4047106263232                   |

| Technical data                 | A-side                       | B-side                       |
|--------------------------------|------------------------------|------------------------------|
| Connector                      | female, straight, M12        | male, angled, M12            |
| Number of pins                 | 5                            | 5                            |
| Pin assignment                 | 1 BN, 2 WH, 3 BU, 4 BK, 5 GY | 1 BN, 2 WH, 3 BU, 4 BK, 5 GY |
| Coding of                      | A                            | A                            |
| Rated voltage                  | 60V                          | 60V                          |
| 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, CuSn, gold-plated     | Metal, CuSn, gold-plated     |
| Contact-carrier material       | Plastic, TPU, BK             | Plastic, TPU, BK             |
| Grip body material             | Plastic, TPU, BK             | Plastic, TPU, BK             |
| Coupling nut material          | Metal, CuZn, nickel-plated   | Metal, CuZn, nickel-plated   |
| Sealing (female) material      | FPM/FKM                      |                              |
| Shielding                      | with shielding               | with shielding               |
| 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, S370GY**

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       | 5.60 mm  |
| Cable-jacket material          | PUR  |
| Jacket color                   | GY, similar RAL7040  |
| Wire cross-section             | 5 x 0.34 mm <sup>2</sup>   |
| Wire insulation material       | PP   |
| Wire colors                    | BN, WH, BU, BK, GY   |
| 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         | >3 Mio. cycles   |
| Shielding                      | Yes  |
| Halogen-free                   | Yes  |
| Torsion                        | +/-180°/m, < 1 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 |

**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>
**Screw cap, M12**
<https://www.escha.net/en/products/standard/accessories-for-connectivity?p=1&o=3&n=15&f=811>
**Link to product**
<https://www.escha.net/en/products/standard/sensoractuator-connectors/8092208>