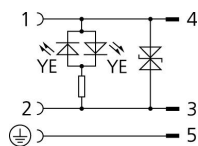
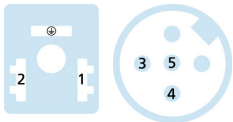
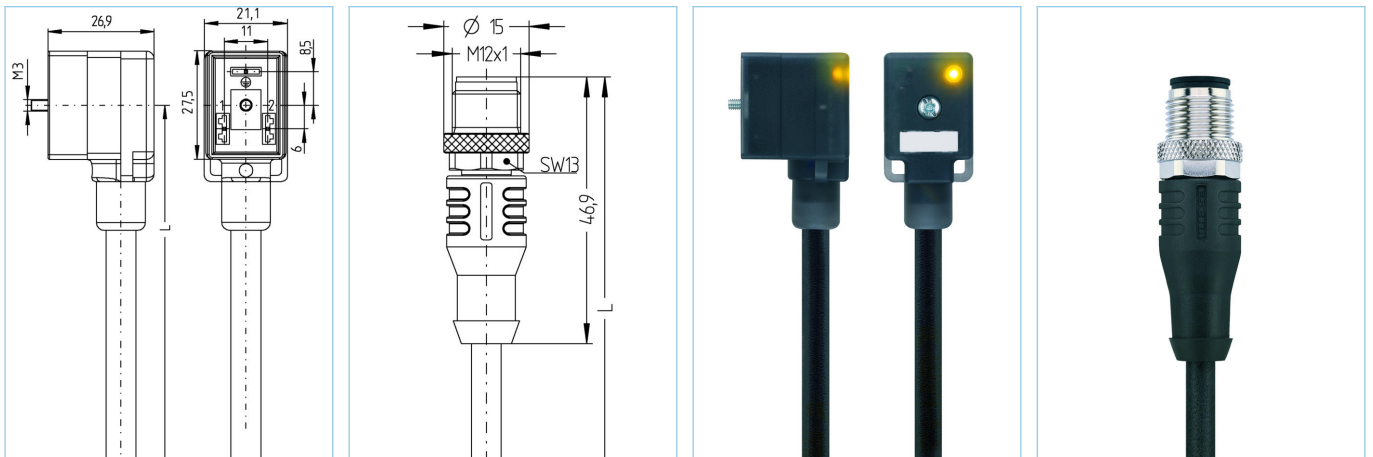


Valve connector, housing style BI, 2+PE, M12, male, straight, 4+PE, suppressor diode, sensor-/actuator cable



**Product data**

|                    |                               |
|--------------------|-------------------------------|
| Item description   | VBI21-24.3-2-AL-WAS5.002/S370 |
| Item-No.           | 8050800                       |
| Length             | 2m                            |
| Customs tariff-No. | 85444290                      |
| Step-File          | VBI21-24.3-L-AL-WAS5.stp      |
| EAN                | 4047106011024                 |
| Label-carrier      | 2 pieces                      |

| Technical data                 | A-side                        | B-side                     |
|--------------------------------|-------------------------------|----------------------------|
| Connector                      | female, angled, Valve BI      | male, straight, M12        |
| Number of pins                 | 2+PE                          | 4+PE                       |
| Pin assignment                 | 1 BN, 2 BU                    | 3 BU, 4 BN, 5 GNYE         |
| Coding of                      |                               | A                          |
| Rated voltage                  | 30V <sub>AC/DC</sub>          | 60V                        |
| Current load (at 40°C)         | 4A                            | 4A                         |
| Insulation resistance          | ≥10 <sup>9</sup> Ω            | ≥10 <sup>9</sup> Ω         |
| Ambient temperature product    | -30°C...+90°C                 | -30°C...+90°C              |
| Contact material               | Metal, CuSn, silver-plated    | Metal, CuZn, gold-plated   |
| Contact-carrier material       | Plastic, PA, BK               | Plastic, TPU, BK           |
| Grip body material             | Plastic, TPU, BK, translucent | Plastic, TPU, BK           |
| Coupling nut material          |                               | Metal, CuZn, nickel-plated |
| Sealing (female) material      | Plastic, TPU                  |                            |
| Signal status-indicator        | LED YE                        |                            |
| Protection circuit             | Suppressor diode              |                            |
| Fixing screw                   | Metal, CuZn, nickel-plated    |                            |
| Housing style                  | BI                            |                            |
| Standards                      | DIN EN 175301-803             | 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                          |

|              |                      |
|--------------|----------------------|
| <b>Cable</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       | 5.20 mm  |
| Cable-jacket material          | PUR  |
| Jacket color                   | BK, similar RAL9005  |
| Wire cross-section             | 5 x 0.34 mm <sup>2</sup>   |
| Wire insulation material       | PP   |
| Wire colors                    | BN, WH, BU, BK, GNYE   |
| 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  |
| Halogen-free                   | Yes  |
| Torsion                        | +/-180°/m, < 1 Mio. cycles   |
| Rated voltage cable            | ≤300 V   |
| Special features               | flame retardant, seawater resistant, recyclable, LABS free, RoHs compliant, acid- and alkali resistant, ozone resistant, UV resistant, hydrolysis proof, drag chain-adapted, torsion resistant, welding sparks resistant, halogen free, silicone free, oil resistant |

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

|            |          |
|------------|----------|
| eCl@ss 6.0 | 27279218 |
| eCl@ss 7.0 | 27279218 |
| eCl@ss 8.0 | 27279218 |
| eCl@ss 9.0 | 27060312 |
| ETIM 5.0   | EC001855 |
| ETIM 6.0   | EC001855 |

|                    |
|--------------------|
| <b>Accessories</b> |
|--------------------|

Labels, Valve connector  
<https://www.escha.net/en/products/standard/accessories-for-connectivity/8047109>

|                        |
|------------------------|
| <b>Link to product</b> |
|------------------------|

<https://www.escha.net/en/products/standard/valve-connectors/8050800>