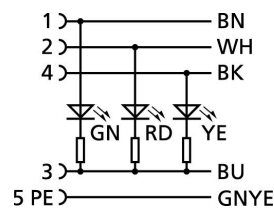
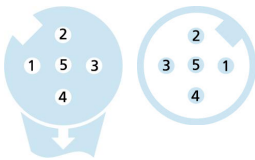


M12, female, angled, 4+PE, M12, male, straight, 4+PE, with LED, sensor-/actuator cable



**Product data**

|                    |                              |
|--------------------|------------------------------|
| Item description   | AL-WWAK5P3.1-5-AL-WAS5/P01BK |
| Item-No.           | 8082012                      |
| Length             | 5m                           |
| Customs tariff-No. | 85444290                     |
| Step-File          | AL-WWAK5P3_1_AL-WAS5.stp     |
| EAN                | 4047106234447                |

| Technical data                 | A-side                         | B-side                         |
|--------------------------------|--------------------------------|--------------------------------|
| Connector                      | female, angled, M12, with LED  | male, straight, M12            |
| Number of pins                 | 4+PE                           | 4+PE                           |
| Pin assignment                 | 1 BN, 2 WH, 3 BU, 4 BK, 5 GNYE | 1 BN, 2 WH, 3 BU, 4 BK, 5 GNYE |
| Coding of                      | A                              | A                              |
| Rated voltage                  | 30V                            | 60V                            |
| Current load (at 40°C)         | 4A                             | 4A                             |
| Insulation resistance          | $\geq 10^9 \Omega$             | $\geq 10^9 \Omega$             |
| Resistance                     | $\leq 5m\Omega$                | $\leq 5m\Omega$                |
| Ambient temperature product    | -30°C...+90°C                  | -30°C...+90°C                  |
| Contact material               | Metal, CuZn, gold-plated       | Metal, CuSn, gold-plated       |
| Contact-carrier material       | Plastic, TPU, BK               | Plastic, TPU, BK               |
| Grip body material             | Plastic, TPU, transparent      | Plastic, TPU, BK               |
| Coupling nut material          | Metal, CuZn, nickel-plated     | Metal, CuZn, nickel-plated     |
| Sealing (female) material      | FPM/FKM                        |                                |
| Circuit logic                  | pnp                            |                                |
| Signal status-indicator        | LED YE/RD                      |                                |
| Operating voltage-indicator    | 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                              |

|                  |                       |
|------------------|-----------------------|
| <b>Cable web</b> | <b>PVC, P01BK, UL</b> |
|------------------|-----------------------|

PVC-cable for measurement and control-, and sensor technology. Suitable for applications in dry areas on packaging machines, assembly- and conveyor technology. High flexibility with unstressed movement (conditional drag-chain application possible). Predestined for applications in food- and beverage industry.

|                              |  |
|------------------------------|--|
| Outer diameter of jacket     | 5.30 mm  |
| Cable-jacket material        | PVC  |
| Jacket color                 | BK, similar RAL9005  |
| Wire cross-section           | 4+1 x 0.34mm <sup>2</sup>  |
| Wire insulation material     | PVC  |
| Wire colors                  | BN, WH, BU, BK, GNYE   |
| Wire structure               | 19 x 0.15 mm   |
| Bending radius (fixed)       | 5 x Ø-cable  |
| Bending radius (repeated)    | 10 x Ø-cable   |
| Temperature range (repeated) | 0°C...+80°C  |
| Temperature range (fixed)    | -25°C...+80°C  |
| Rated voltage cable          | ≤300 V   |
| Special features             | good resistance against oils and chemicals, LABS free, ozone resistant, recyclable, RoHs compliant, acid- and alkali resistant, seawater resistant, UV resistant |

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

|            |          |
|------------|----------|
| 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 |

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

|  |  |
|--|--|
| Mounting-clip, M12<br><a href="https://www.escha.net/en/products/standard/accessories-for-connectivity/8047660">https://www.escha.net/en/products/standard/accessories-for-connectivity/8047660</a>  |  |
| Torque-wrench set<br><a href="https://www.escha.net/en/products/standard/accessories-for-connectivity/8055431">https://www.escha.net/en/products/standard/accessories-for-connectivity/8055431</a>   |  |
| Marking rings Ø 9mm<br><a href="https://www.escha.net/en/products/standard/accessories-for-connectivity?p=1&amp;o=3&amp;n=15&amp;f=809">https://www.escha.net/en/products/standard/accessories-for-connectivity?p=1&amp;o=3&amp;n=15&amp;f=809</a> |  |
| Screw plug, M12<br><a href="https://www.escha.net/en/products/standard/accessories-for-connectivity?p=1&amp;o=3&amp;n=15&amp;f=812">https://www.escha.net/en/products/standard/accessories-for-connectivity?p=1&amp;o=3&amp;n=15&amp;f=812</a>     |  |
| Screw cap, M12<br><a href="https://www.escha.net/en/products/standard/accessories-for-connectivity?p=1&amp;o=3&amp;n=15&amp;f=811">https://www.escha.net/en/products/standard/accessories-for-connectivity?p=1&amp;o=3&amp;n=15&amp;f=811</a>      |  |

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

|   |  |
|---|--|
| <a href="https://www.escha.net/en/products/standard/sensoractuator-connectors/8082012">https://www.escha.net/en/products/standard/sensoractuator-connectors/8082012</a> |  |
|---|--|