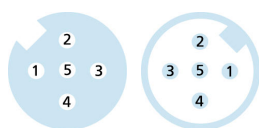
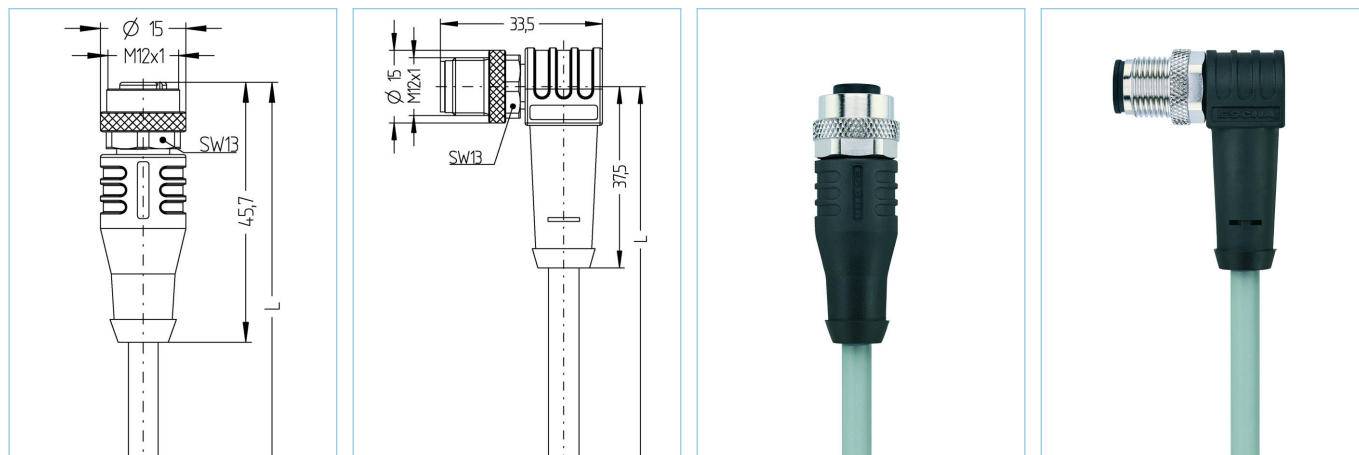


## Double-ended cordset, Automation Line, M12, shielded



### Product data

|                    |                              |
|--------------------|------------------------------|
| Item description   | AL-WAKS4.5-1-AL-WWASS4.5/P00 |
| Item-No.           | 8051612                      |
| Length             | 1m                           |
| Customs tariff-No. | 85444290                     |
| Step-File          | AL-WAKS4_5_AL-WWASS4_5.stp   |
| EAN                | 4047106028787                |
| Label-carrier      | 2 pieces                     |

| 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                                                                                                                                                                                                                                                                                                                                                                |  | PVC, P00, GY                                                                                                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------|
| 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. Very good EMC-features with shielded versions. |  |                                                                                                                                        |
| Outer diameter of jacket                                                                                                                                                                                                                                                                                                                                             |  | 5,50 mm                                                                                                                                |
| Cable-jacket material                                                                                                                                                                                                                                                                                                                                                |  | PVC                                                                                                                                    |
| Jacket color                                                                                                                                                                                                                                                                                                                                                         |  | GY, similar RAL7040                                                                                                                    |
| Wire cross-section                                                                                                                                                                                                                                                                                                                                                   |  | 5 x 0.34 mm <sup>2</sup>                                                                                                               |
| Wire insulation material                                                                                                                                                                                                                                                                                                                                             |  | PVC                                                                                                                                    |
| Wire colors                                                                                                                                                                                                                                                                                                                                                          |  | BN, WH, BU, BK, GY                                                                                                                     |
| Conductor 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                                                                                                                          |
| Shielding                                                                                                                                                                                                                                                                                                                                                            |  | Yes                                                                                                                                    |
| Rated voltage cable                                                                                                                                                                                                                                                                                                                                                  |  | ≤300 V                                                                                                                                 |
| Special features                                                                                                                                                                                                                                                                                                                                                     |  | seawater resistant, recyclable, LABS free, RoHs compliant, acid- and alkali resistant, ozone resistant, UV resistant, hydrolysis proof |
| 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-set, M12<br><a href="https://www.escha.net/en/Products/Standard/Accessories-for-connectivity/8047664/Mounting-set-M12-clips-and-screws-M4x8-black">https://www.escha.net/en/Products/Standard/Accessories-for-connectivity/8047664/Mounting-set-M12-clips-and-screws-M4x8-black</a>                                                                         |  |                                                                                                                                        |
| Torque-wrench set<br><a href="https://www.escha.net/en/Products/Standard/Accessories-for-connectivity/8055431/Torque-wrench-set-M8-M12">https://www.escha.net/en/Products/Standard/Accessories-for-connectivity/8055431/Torque-wrench-set-M8-M12</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>                                                                                                                 |  |                                                                                                                                        |