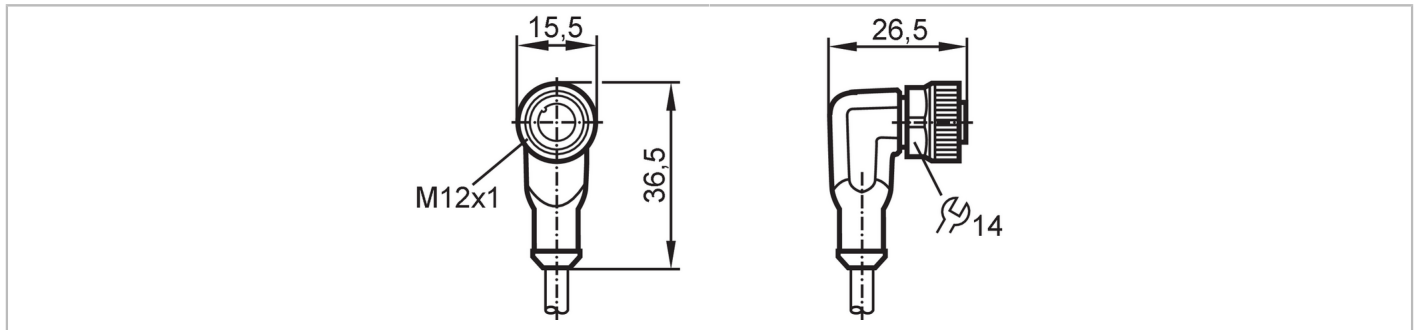


# EVC541



## Connecting cable with socket

ADOAH040MSS0002K04



| Application                          |  |                                 |                          |              |  |                |          |                  |           |
|--------------------------------------|--|---------------------------------|--------------------------|--------------|--|----------------|----------|------------------|-----------|
| Special feature                      | Free from silicone; Halogen-free; Gold-plated contacts; Screened cable; Drag chain suitability   |                                 |                          |              |  |                |          |                  |           |
| Application                          | Industrial applications / factory automation; Use in machine tools, coolants and lubricants  |                                 |                          |              |  |                |          |                  |           |
| Free from silicone                   | yes  |                                 |                          |              |  |                |          |                  |           |
| Electrical data                      |  |                                 |                          |              |  |                |          |                  |           |
| Operating voltage [V]                | < 50 AC / < 60 DC  |                                 |                          |              |  |                |          |                  |           |
| Protection class                     | III  |                                 |                          |              |  |                |          |                  |           |
| Max. current load total [A]          | 4  |                                 |                          |              |  |                |          |                  |           |
| Operating conditions                 |  |                                 |                          |              |  |                |          |                  |           |
| Ambient temperature [°C]             | -25...90   |                                 |                          |              |  |                |          |                  |           |
| Note on ambient temperature          | cULus: ...75 °C  |                                 |                          |              |  |                |          |                  |           |
| Ambient temperature (moving) [°C]    | -25...90   |                                 |                          |              |  |                |          |                  |           |
| Note on ambient temperature (moving) | cULus: ...75 °C  |                                 |                          |              |  |                |          |                  |           |
| Protection                           | IP 65; IP 67   |                                 |                          |              |  |                |          |                  |           |
| Mechanical data                      |  |                                 |                          |              |  |                |          |                  |           |
| Weight [g]                           | 99.6   |                                 |                          |              |  |                |          |                  |           |
| Dimensions [mm]                      | 26.5 x 15.5 x 36.5   |                                 |                          |              |  |                |          |                  |           |
| Moulded-body material                | TPU  |                                 |                          |              |  |                |          |                  |           |
| Material nut                         | brass, nickel-plated   |                                 |                          |              |  |                |          |                  |           |
| Sealing material                     | FKM  |                                 |                          |              |  |                |          |                  |           |
| Drag chain suitability               | yes  |                                 |                          |              |  |                |          |                  |           |
| Drag chain suitability               | <table border="1"> <tr> <td>bending radius for flexible use</td> <td>min. 10 x cable diameter</td> </tr> <tr> <td>travel speed</td> <td>max. 3.3 m/s for a horizontal travel length of 5 m and max. acceleration of 5 m/s<sup>2</sup></td> </tr> <tr> <td>bending cycles</td> <td>≥ 2 Mio.</td> </tr> <tr> <td>torsional strain</td> <td>± 180 °/m</td> </tr> </table> | bending radius for flexible use | min. 10 x cable diameter | travel speed | max. 3.3 m/s for a horizontal travel length of 5 m and max. acceleration of 5 m/s <sup>2</sup> | bending cycles | ≥ 2 Mio. | torsional strain | ± 180 °/m |
| bending radius for flexible use      | min. 10 x cable diameter   |                                 |                          |              |  |                |          |                  |           |
| travel speed                         | max. 3.3 m/s for a horizontal travel length of 5 m and max. acceleration of 5 m/s <sup>2</sup>   |                                 |                          |              |  |                |          |                  |           |
| bending cycles                       | ≥ 2 Mio.   |                                 |                          |              |  |                |          |                  |           |
| torsional strain                     | ± 180 °/m  |                                 |                          |              |  |                |          |                  |           |
| Remarks                              |  |                                 |                          |              |  |                |          |                  |           |
| Pack quantity                        | 1 pcs.   |                                 |                          |              |  |                |          |                  |           |



## Connecting cable with socket

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### Electrical connection

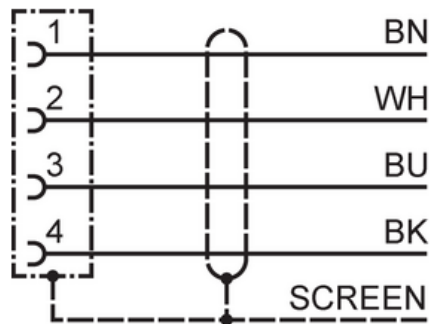
Cable: 2 m, PUR, Halogen-free, black, Ø 4.9 mm, shielded; 4 x 0.34 mm<sup>2</sup> (42 x Ø 0.1 mm )

### Electrical connection - socket

Connector: 1 x M12, angled; coding: A; Contacts: 4, gold-plated; Moulded body: TPU, orange; Locking: brass, nickel-plated; Sealing: FKM; Tightening torque: 0.6...1.5 Nm; Shielded connection cable: screen connected



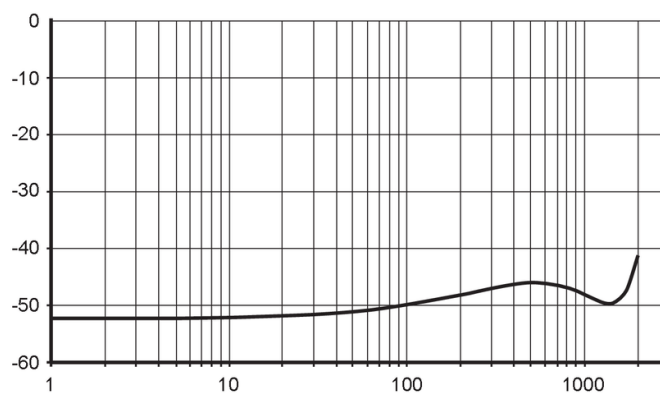
### Connection



|      | Core colours : |
|------|----------------|
| BK = | black          |
| BN = | brown          |
| BU = | blue           |
| WH = | white          |

### Diagrams and graphs

#### Shielding characteristics



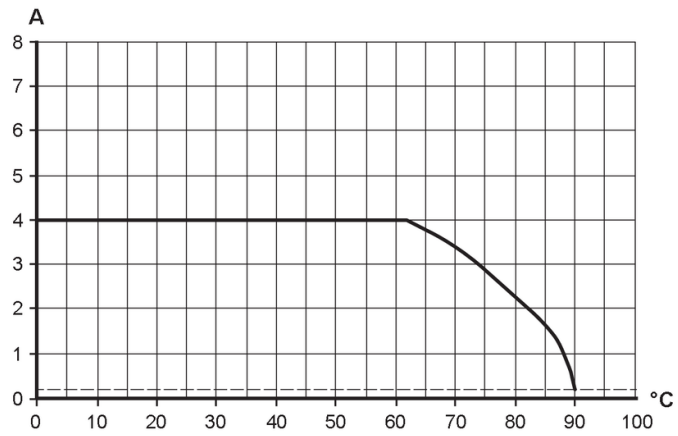
x frequency (MHz)  
 y Shielding characteristics (dB)  
 according to DIN EN 60512-23-3

# EVC541



## Connecting cable with socket

ADOAH040MSS0002K04



Derating  $I_{max} * 0.8$  DIN EN 60512-5-2

X Ambient temperature [°C]

Y Current [A]