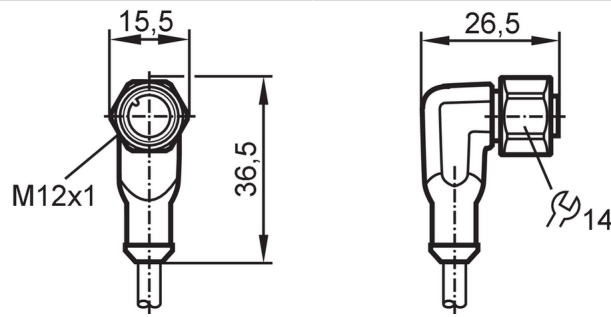




## Female cordset

ADOAH050VAS0002H05



## Application

|                    |                                                                                |
|--------------------|--------------------------------------------------------------------------------|
| Special feature    | Free from silicone; Halogen-free; gold-plated contacts; Drag chain suitability |
| Application        | applications in particularly harsh environments; for mobile applications       |
| Free from silicone | yes                                                                            |

## Electrical data

|                             |     |                   |
|-----------------------------|-----|-------------------|
| Operating voltage           | [V] | < 50 AC / < 60 DC |
| Protection class            |     | II                |
| Max. current load total     | [A] | 4                 |
| Overall current rating (UL) | [A] | 3                 |

## Operating conditions

|                                                                 |      |                             |
|-----------------------------------------------------------------|------|-----------------------------|
| Ambient temperature                                             | [°C] | -40...90                    |
| Note on ambient temperature                                     |      | cULus: ...75 °C             |
| Ambient temperature (moving)                                    | [°C] | -25...90                    |
| Note on ambient temperature (moving)                            |      | cULus: ...75 °C             |
| Storage temperature                                             | [°C] | -25...55                    |
| Storage humidity                                                | [%]  | 10...100                    |
| Other climatic conditions for storage according to stated class |      | 1K22/ DIN 60721-3-1         |
| Protection                                                      |      | IP 65; IP 67; IP 68; IP 69K |

## Tests / approvals

|                             |                  |                                                                                                          |
|-----------------------------|------------------|----------------------------------------------------------------------------------------------------------|
| Vibration resistance        | EN 60068-2-6 Fc  | 20 g (10...3000 Hz) / -20 °C / 50 °C<br>50 sweep cycles per frequency; 1 octave per minute in 3 axes     |
| Shock resistance            | EN 60068-2-27 Ea | 100 g 11 ms half-sine; 6 shocks each in every direction along the three coordinate axes / -40 °C / 85 °C |
| Continuous shock resistance | EN 60068-2-29 Eb | 40 g 6 ms; 4000 shocks each in every direction of the 3 coordinate axes / -20 °C / 50 °C                 |
| Fast temperature changes    | EN 60068-2-14 Na | TA = -40°C; TB = 85°C; t1 = 30 min; t2 = < 10 s 50 cycles                                                |
| Salt spray test             | EN 60068-2-52 Kb | severity level 5 (4 test cycles)                                                                         |

## Mechanical data

|        |     |       |
|--------|-----|-------|
| Weight | [g] | 111.6 |
|--------|-----|-------|

# EVM039



## Female cordset

ADOAH050VAS0002H05

|                        |                                          |                                                                                                |
|------------------------|------------------------------------------|------------------------------------------------------------------------------------------------|
| Dimensions             | [mm]                                     | 26.5 x 15.5 x 36.5                                                                             |
| Molded-body material   |                                          | TPU (urethane)                                                                                 |
| Material nut           |                                          | stainless steel (1.4404 / 316L)                                                                |
| Sealing material       |                                          | FKM                                                                                            |
| Drag chain suitability |                                          | yes                                                                                            |
| Drag chain suitability | Bending radius for flexible applications | 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                           | > 5 Mio.                                                                                       |
|                        | Torsional strain                         | ± 180 °/m                                                                                      |

### Remarks

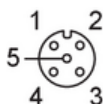
Pack quantity 1 pcs.

### Electrical connection

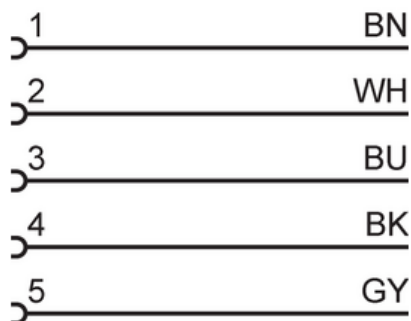
Cable: 2 m, PUR, Halogen-free, black, Ø 4.9 mm; 5 x 0.34 mm<sup>2</sup> (42 x Ø 0.1 mm )

### Electrical connection - Socket

Connector: 1 x M12, angled; coding: A; Contacts: 5, gold-plated; Moulded body: TPU (urethane), orange; Locking: stainless steel (1.4404 / 316L); sealing: FKM; Tightening torque: 0.6...1.5 Nm



### Connection



Core colors :  
BK = black  
BN = brown  
BU = blue  
GY = grey  
WH = white

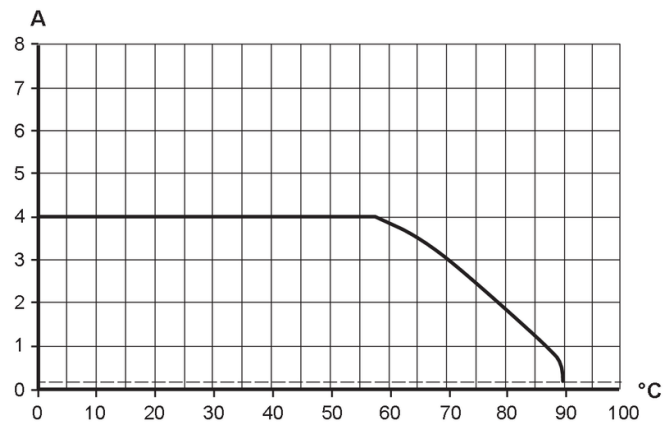
# EVM039



## Female cordset

ADOAH050VAS0002H05

### Diagrams and graphs



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

- X Ambient temperature [°C]
- Y Current [A]