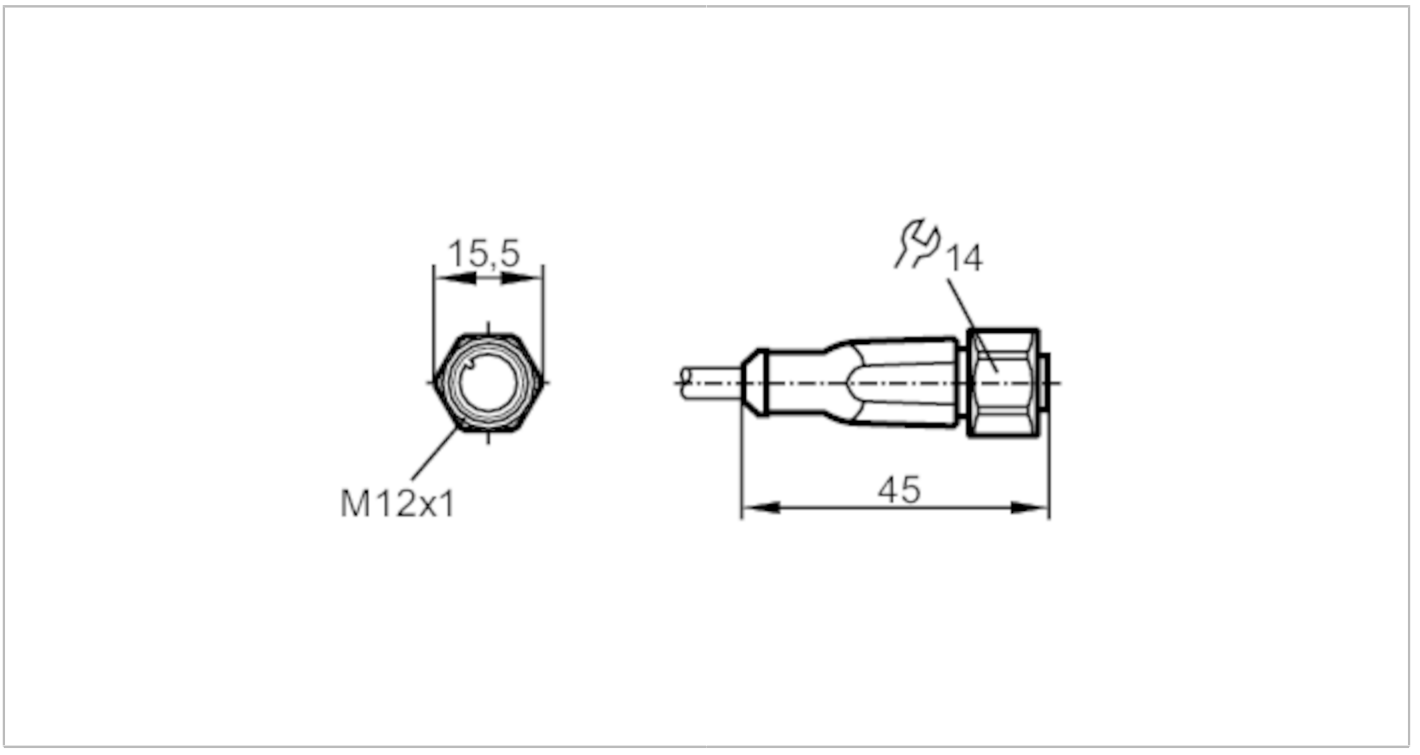
# EVM038

## Connecting cable with socket

ADOGH050VAS0010H05




| | | |
|---|---|---|
| **Application** | | |
| Special feature | | Free from silicone; Halogen-free; Gold-plated contacts; Drag chain suitability |
| Application | | applications in particularly harsh environments |
| Free from silicone | | yes |
| **Electrical data** | | |
| Operating voltage | [V] | < 60 AC/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 |

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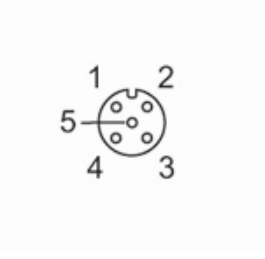
| | | | |
|---|---|---|---|
| **Tests / approvals** | | | |
| Vibration resistance | | EN 60068-2-6 Fc | 20 g (10...3000 Hz) / -20 °C / 50 °C |
| | | | 50 sweep cycles, 1 octave per minute, in 3 axes |
| Shock resistance | | EN 60068-2-27 Ea | 100 g 11 ms half sine; 6 shocks each in every direction along 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 change | | 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] | 362 | |
| Dimensions | [mm] | 15.5 x 15.5 x 45 | |
| Moulded-body material | | TPU | |
| Material nut | | stainless steel (316L/1.4404) | |
| Sealing material | | FKM | |
| Drag chain suitability | | yes | |
| Drag chain suitability | | 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/s² |
| | | bending cycles | > 5 Mio. |
| | | torsional strain | ± 180 °/m |
| **Remarks** | | | |
| Pack quantity | | 1 pcs. | |

**Electrical connection**

Cable: 10 m, PUR, Halogen-free, black, Ø 4.9 mm; 5 x 0.34 mm² (42 x Ø 0.1 mm )

**Electrical connection - socket**

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



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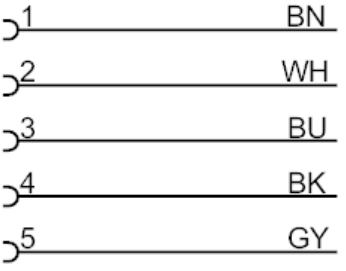
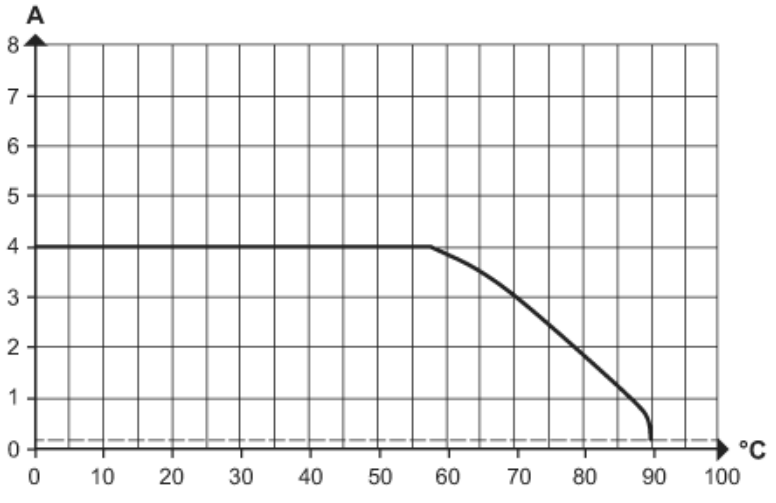
### Connection




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

### Diagrams and graphs




Derating Imax * 0.8 DIN EN 60512-5-2

X Ambient temperature [°C]

Y Current [A]