



Female cordset

ADOAH040VAS0015H04



| Application                                                     |                                                                                |                                                              |
|-----------------------------------------------------------------|--------------------------------------------------------------------------------|--------------------------------------------------------------|
| System                                                          | 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]                                                                            | < 250 AC / < 300 DC                                          |
| Protection class                                                |                                                                                | II                                                           |
| Max. current load total                                         | [A]                                                                            | 4                                                            |
| Operating conditions                                            |                                                                                |                                                              |
| Ambient temperature                                             | [°C]                                                                           | -40...90                                                     |
| Note on ambient temperature                                     |                                                                                | cULus: ...75                                                 |
| Ambient temperature (moving)                                    | [°C]                                                                           | -25...90                                                     |
| Note on ambient temperature (moving)                            |                                                                                | cULus: ...75                                                 |
| 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                         |
|                                                                 |                                                                                | 50 sweep cycles per frequency; 1 octave per minute in 3 axes |

# EVM019



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|                             |                  |                                                                                                          |
|-----------------------------|------------------|----------------------------------------------------------------------------------------------------------|
| 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]                                      | 497                                                                                |
| 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/s² |
|                        | Bending cycles                           | > 5 Mio.                                                                           |
|                        | Torsional strain                         | ± 180 °/m                                                                          |

### Remarks

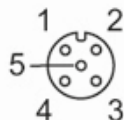
|               |        |
|---------------|--------|
| Pack quantity | 1 pcs. |
|---------------|--------|

### Electrical connection

Cable: 15 m, PUR, Halogen-free, black, Ø 4.9 mm; 4 x 0.34 mm² (42 x Ø 0.1 mm )

### Electrical connection - Socket

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





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Connection



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

Diagrams and graphs

Characteristic curve for derating



Derating  $I_{max} \cdot 0.8$  (DIN EN 60512-5-2)

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