

# EVC109



## Connection cable

VDOAH040MSS0010H04STGH040MSS

Please see the technical note under "Downloads"



| Application                                                     |      |                                                                                |
|-----------------------------------------------------------------|------|--------------------------------------------------------------------------------|
| System                                                          |      | Free from silicone; Halogen-free; gold-plated contacts; Drag chain suitability |
| 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] | -25...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                                                    |
| Mechanical data                                                 |      |                                                                                |
| Weight                                                          | [g]  | 300.5                                                                          |
| Molded-body material                                            |      | TPU (urethane)                                                                 |



Connection cable

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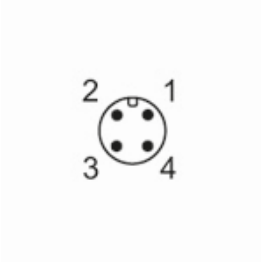
|                        |                                          |                                                                                    |
|------------------------|------------------------------------------|------------------------------------------------------------------------------------|
| Material nut           | brass, nickel-plated                     |                                                                                    |
| 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

|               |                                                 |
|---------------|-------------------------------------------------|
| Notes         | Please see the technical note under "Downloads" |
| Pack quantity | 1 pcs.                                          |

Electrical connection - plug

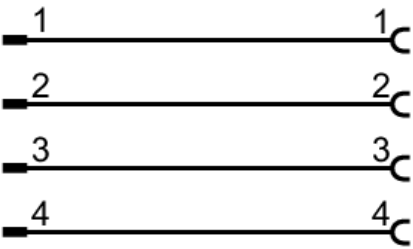
Connector: 1 x M12, straight; coding: A; Moulded body: TPU (urethane), orange; Locking: brass, nickel-plated; Contacts: gold-plated; Tightening torque: 0.6...1.5 Nm



Electrical connection

Cable: 10 m, PUR, Halogen-free, black, Ø 4.3 mm; 4 x 0.34 mm² (42 x Ø 0.1 mm )

Connection



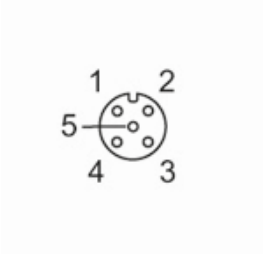


Connection cable

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Electrical connection - Socket

Connector: 1 x M12, angled; coding: A; Moulded body: TPU (urethane), orange; Locking: brass, nickel-plated; sealing: FKM; Contacts: gold-plated; Tightening torque: 0.6...1.5 Nm



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]