**Product data sheet**

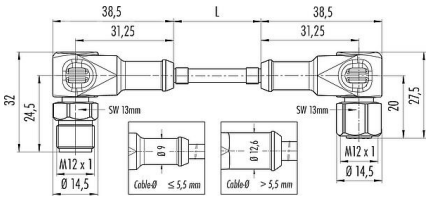
# Automation technology - Sensors and actuators

| | |
|---|---|
| Product description | **M12 Connecting cable male angled connector - female angled connector, Contacts: 3, unshielded, moulded on the cable, IP67/IP69K, Ecolab, FDA compliant, Special TPE, grey, 3 x 0.34 mm², Food & Beverage, stainless steel, 2 m** |
| Area | **M12-A** |
| Coding | **A-coded** |
| Series | **763** |
| Part no. | **77 3734 3727 40403-0200** |

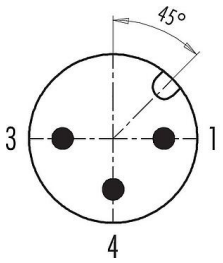
## Illustration (may vary)



## Scale drawing




## Contact arrangement (Plug-in side)




1 *brown*
2 *not assembled*
3 *blue*
4 *black*

## Cable length tolerance

| *cable length* | *tolerance* |
|---|---|
| ≥ 0,10 m | + 0,03 m |
| ≥ 0,20 m | + 0,04 m |
| ≥ 0,50 m | + 0,07 m |
| ≥ 1,00 m | + 0,10 m |
| ≥ 2,00 m | + 0,15 m |
| ≥ 5,00 m | + 0,20 m |
| ≥ 10,0 m | + 0,25 m |
| ≥ 20,0 m | + 0,35 m |

## Technical data

### General features

| | |
|---|---|
| Part no. | 77 3734 3727 40403-0200 |
| Connector design | Connecting cable male angled connector - female angled connector |
| Type standard | DIN EN 61076-2-101 |
| Coding | A-coded |
| Cable length | 2 m (Standard 1 m and 2 m. Other lengths are available on request.) |
| Version | Double ended cordsets |

**Product data sheet**

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| | |
|---|---|
| Connector locking system | screw |
| Termination | moulded on the cable |
| Degree of protection | IP67/IP69K |
| Connection cross-section | 0.34 mm² / AWG 22 |
| Temperature range from/to | -40 °C / 105 °C |
| Mechanical operation | > 100 Mating cycles |
| Weight (g) | 175.8 |
| Customs tariff number | 85444290 |
| Country of Origin | DE |

## Electrical parameters

| | |
|---|---|
| Rated voltage | 250 V |
| Rated impulse voltage | 2500 V |
| Rated current | 4.0 A |
| Insulation resistance | ≥ $10^{10}$ Ω |
| Pollution degree | 3 |
| Overvoltage category | II |
| Insulating material group | II |
| EMC compliance | unshielded |

## Material

| | |
|---|---|
| Housing material | PP |
| Contact body material | PP |
| Contact material | CuZn (brass) / CuSn (bronze) |
| Contact plating | Au (gold) |
| Locking material | Stainless steel |
| REACH SVHC | None (No pollutants) |
| SCIP number | SCIP-number not available |

## Cable data - Structure of the cable

| | |
|---|---|
| Cable diameter | 4.5 mm |
| Cross section | 3 x 0.34 mm² |
| Sheath material | Special TPE |
| Single-lead insulation | PVC |
| Single-lead structure | 42 x 0.10 mm |
| Cable color | grey |

## Cable data - Mechanical properties

| | |
|---|---|
| Bending radius, fixed cable | ≥ 5 x Ø |
| Bending radius, moving cable | ≥ 10 x Ø |
| Bending cycles | 2 million |
| Permitted acceleration | 5 m/s² |
| Travel distance, horizontal | 5 m |
| Travel distance, vertical | 2 m |

**Product data sheet**

# Automation technology - Sensors and actuators

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| | |
|---|---|
| Travel speed | ≤ 200 m/min (5 m horizontal distance) |

## Cable data - Thermal properties

| | |
|---|---|
| Temperature range cable in move from/to | -5 °C / 105 °C |
| Temperature range cable fixed from/to | -40 °C / 105 °C |

## Cable data - Other features

| | |
|---|---|
| Halogen free | no |

## Authorization/approvals

| | |
|---|---|
| Approvals | Ecolab, FDA compliant |

## Classifications

| | |
|---|---|
| eCl@ss 11.1 | 27-06-03-11 |
| ETIM 9.0 | EC002638 |

## Declarations of conformity

| | |
|---|---|
| Low Voltage Directive | EN 60529:1991 \| EN 60204-1:2018 |
| RoHS Directive | EN IEC 63000:2018 |

**Product data sheet**

# Automation technology - Sensors and actuators

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## Security notices

The connector must not be plugged or unplugged under load. Non-observance and improper use can result in personal injury.

The connectors have been developed for applications in plant engineering, control and electrical equipment construction. The user is responsible for checking whether the connectors can also be used in other areas of application.

Connectors which are used in circuits with voltages dangerous to the touch may only be installed and used by, or under the supervision of, persons with electrical engineering training, taking into account the applicable regulations and standards.

The user must take suitable safety precautions to ensure that the connector cannot be accidentally disconnected.

To lock the cable connector with the device connector, the threaded ring is tightened "hand-tight" (approx. 60 cNm).

The protection class specification applies on condition that the four mounting holes are made as blind holes.