**Product data sheet**

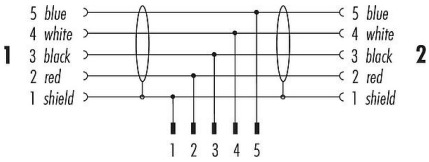
# Automation technology - Sensors and actuators

| | |
|---|---|
| Product description | **M12 Male cable splitter - 2 female cable connectors, Contacts: 5, shielded, moulded on the cable, IP67, CAN-Bus, PUR, violet, 1 x 2 x AWG 22 + 1 x 2 x AWG 24, 2 m** |
| Area | **M12** |
| Coding | **A-coded** |
| Series | **765** |
| Part no. | **77 9851 2530 50705-0200** |

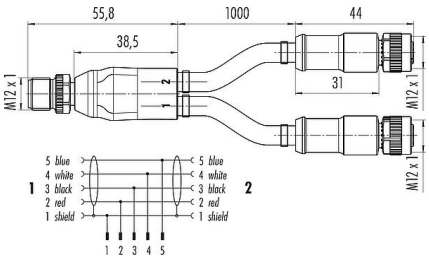
## Illustration (may vary)



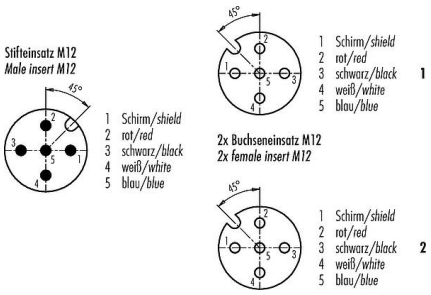
## Pin assignment plans




## Scale drawing




## Contact arrangement (Plug-in side)




## 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 9851 2530 50705-0200<br>Alternative part no.: 79 5229 20 05 |
| Notice | Please note that, due to the change from the old to the new order number, there may be deviations in the technical specifications. For questions about product details, please use the 'Contact Customer Service' form on the right. |
| Connector design | Male cable splitter - 2 female cable connectors |
| Type standard | DIN EN 61076-2-101 |

**Product data sheet**

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| | |
|---|---|
| Coding | A-coded |
| Cable length | 2 m (Standard 1 m and 2 m. Other lengths are available on request.) |
| Version | Double ended cordsets |
| Connector locking system | screw |
| Termination | moulded on the cable |
| Degree of protection | IP67 |
| Connection cross-section | 1x 2x0.34 / 1x 2x0.25 mm² / 1 x 2 x AWG 22 / 1 x 2 x AWG 24 |
| Temperature range from/to | -25 °C / 85 °C |
| Mechanical operation | > 100 Mating cycles |
| Weight (g) | 337.64 |
| Customs tariff number | 85444290 |
| Country of Origin | DE |

## Electrical parameters

| | |
|---|---|
| Rated voltage | 60 V |
| Rated impulse voltage | 1500 V |
| Rated current | 4.0 A |
| Pollution degree | 3 |
| Overvoltage category | II |
| Insulating material group | II |
| EMC compliance | shielded |
| Shield connection | Shield on pin 1 |

## Material

| | |
|---|---|
| Housing material | PUR |
| Contact body material | PUR |
| Contact material | CuZn (brass) / CuSn (bronze) |
| Contact plating | Au (gold) |
| Locking material | Zinc die-cast nickel-plated |
| REACH SVHC | CAS 7439-92-1 (Lead) |
| SCIP number | 0fdb6de4-38c1-4253-8161-831bd6422bd8 |

## Cable data - Structure of the cable

| | |
|---|---|
| Cable type | CAN-Bus |
| Cable diameter | 7.2 mm |
| Cross section | 1 x 2 x AWG 22 + 1 x 2 x AWG 24 |
| Sheath material | PUR |
| Single-lead insulation | Polyolefins and skin-foamed PE |
| Single-lead structure | 19 x 0.16 mm / 19 x 0.13 mm |
| Cable color | violet |

## Cable data - Mechanical properties

| | |
|---|---|
| Bending radius, fixed cable | 5 x Ø |
| Bending radius, moving cable | 10 x Ø |

**Product data sheet**

# Automation technology - Sensors and actuators

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| | |
|---|---|
| Bending cycles | 1 million |
| Permitted acceleration | max. 5 m/s² |

## Cable data - Thermal properties

| | |
|---|---|
| Temperature range cable in move from/to | -20 °C / 80 °C |
| Temperature range cable fixed from/to | -40 °C / 80 °C |

## Cable data - Other features

| | |
|---|---|
| Halogen free | yes |

## 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**

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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.

Plug connectors with enclosure protection IP67 and IP68 are not suitable for use under water. When used outdoors, the plug connectors must be protected separately against corrosion. For further information on the IP protection classes, please refer to the "Technical Information" download centre.

Please observe the pollution degree and the overvoltage category. For further information, please refer to the download center "Technical Information".

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