

Product description **M12-A male to M8 female connecting cordset, Contacts: 3, not shielded, molded on cable, IP67, Standard cable, PUR black, 3 x 0.34 mm<sup>2</sup>**

Area

Order number

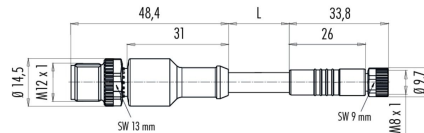
**M12-A series 765**

77 3429 3406 50003-XXXX

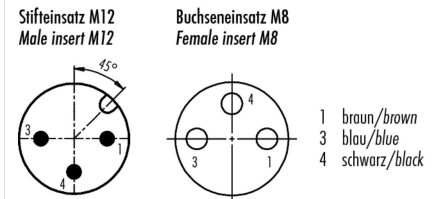
## Illustration



## Scale drawing



### Contact arrangement (Plug-in side)



## Technical data

## General values

|                          |                      |
|--------------------------|----------------------|
| Connector design         | connecting cord      |
| Connector locking system | screw                |
| Termination              | molded on cable      |
| Wire gauge (mm)          | 0.34 mm <sup>2</sup> |
| Wire gauge (AWG)         | 22                   |
| Upper limit temperature  | 80 °C                |
| Lower limit temperature  | - 25 °C              |
| Customs tariff number    | 85444290             |
| Packaging Unit           | 80                   |

## Electrical values

|                           |                     |
|---------------------------|---------------------|
| Rated current (40 °C)     | 4 A                 |
| Rated voltage             | 60 V                |
| Rated impulse voltage     | 1500 V              |
| Pollution degree          | 3                   |
| Overvoltage category      | II                  |
| Insulating material group | II                  |
| EMC compliance            | not shielded        |
| Degree of protection      | IP67                |
| Mechanical operation      | > 100 Mating cycles |

## Cable data

|                                          |           |
|------------------------------------------|-----------|
| Cable length                             | m         |
| Sheath material                          | PUR       |
| Single-lead insulation                   | PVC       |
| Halogen free                             | No        |
| Single-lead structure                    | 42x0.1 mm |
| Cable diameter                           | 4.3 mm    |
| Cable color                              | black     |
| Conductor resistance                     | 60Ω/Km    |
| Temperature range, moving cable, °C from | -20°C     |
| Temperature range, moving cable, °C to   | +80°C     |
| Temperature range, fixed cable, °C from  | -50°C     |
| Temperature range, fixed cable, °C to    | +80°C     |
| Bending radius, fixed cable              | ≥ 10 x Ø  |

## Material

|                       |                                           |
|-----------------------|-------------------------------------------|
| Contact material      | Pin: CuZn (brass) / Socket: CuSn (bronze) |
| Contact plating       | Au (gold)                                 |
| Contact body material | PUR                                       |
| Housing material      | PUR                                       |
| Locking material      | Zinc die-cast nickel-plated               |
| REACH SVHC            | CAS 7439-92-1 (Lead)                      |

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## Security notices

The connectors are designed for use in plant, control system and electrical equipment. The end user is responsible for checking whether the connectors are suitable for use in other applications.

Connectors with degree of protection IP 67 and IP 68 are not suitable for use under water. When used outdoors, the connectors must be separately protected against corrosion. For further information about IP degrees of protection refer to 'Technical support' in the Download Centre.

To lock the cable connector to the equipment connector, the threaded ring is tightened until it is 'finger-tight' (approx. 60 cNm).