

Product data sheet

Automation technology - sensors and actuators

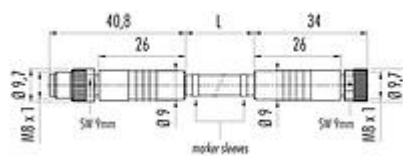


| | |
|---------------------|---|
| Product description | M8 connection cable male cable connector - female cable connector, Contacts: 3, unshielded, moulded cable, IP67/IP69K, UL, PVC grey, 3 x 0.34 mm ² , 0,3 m |
| Area | M8 series 718 |
| Part no. | 77 3406 3405 20003-0030 |

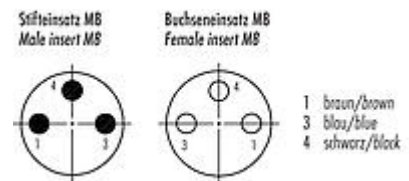
Illustration



Scale drawing



Contact arrangement (Plug-in side)



Technical data

General features

| | |
|---------------------------|--|
| Part no. | 77 3406 3405 20003-0030 |
| Connector design | connection cable male cable connector - female cable connector |
| Cable length | 0,3 m |
| Version | connecting cable |
| Connector locking system | screw |
| Termination | moulded cable |
| Degree of protection | IP67/IP69K |
| Cross-sectional area | 0.34 mm ² / AWG 22 |
| Temperature range from/to | -25 °C / 85 °C |
| Mechanical operation | > 100 Mating cycles |
| Weight (g) | 37 |
| Customs tariff number | 85444290 |

Electrical parameters

| | |
|---------------------------|------------|
| Rated voltage | 60 V |
| Rated impulse voltage | 800 V |
| Rated current (40 °C) | 4,0 A |
| Pollution degree | 3 |
| Overvoltage category | II |
| Insulating material group | II |
| EMC compliance | unshielded |

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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 | bd764fe1-979e-4d0e-bc85-114be9e5e753 |

Authorization/approvals

| | |
|-----------|----|
| Approvals | UL |
|-----------|----|

Classifications

| | |
|-------------|-------------|
| eCl@ss 11.1 | 27-06-03-11 |
| ETIM 7.0 | EC001855 |

Declarations of conformity

| | |
|-----------------------|--|
| Low Voltage Directive | 2014/35/EU (EN 60529:1991;EN 60204-1:2018) |
| RoHS Directive | 2011/65/EU (EN 50581:2012) |

Cable data - Structure of the cable

| | |
|------------------------|--------------------------|
| Cable diameter | 4.5 mm |
| Cross section | 3 x 0.34 mm ² |
| Sheath material | PVC |
| Single-lead insulation | PVC |
| Single-lead structure | 42 x 0.10 mm |
| Cable color | grey |

Cable data - Electrical properties

| | |
|----------------------|-------------------|
| Operating voltage | ≤300 V |
| Cable test voltage | ≥2500 V effective |
| Conductor resistance | 57 Ω/Km (20°C) |

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/s ² + 1 m/s ² |

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| | |
|-----------------------------|---------------------------------------|
| Travel distance, horizontal | ≥ 5 m |
| Travel distance, vertical | ≥ 5 m |
| Travel speed | at 5m horizontal path. -> 200 m / min |

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 |
|--------------|----|

| | |
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General Disclaim Notice

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.

Plug connectors with enclosure protection IP 67 and IP 68 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.

To lock the cable connector with the device connector, the threaded ring is tightened "hand-tight" (approx. 50 cNm).