

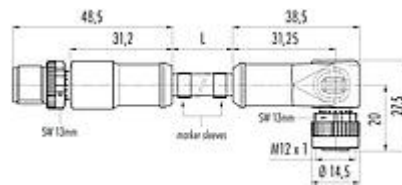
Product description **M12-A connection cable male cable connector - female angled connector, Contacts: 12, unshielded, moulded cable, IP68/IP69K, UL, PVC grey, 12 x 0.25 mm<sup>2</sup>, 0,3 m**

Area **M12-A series 763**  
Part no. **77 3434 3429 20712-0030**

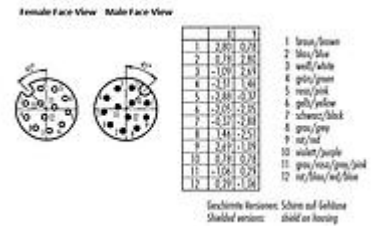
### Illustration



### Scale drawing



### Contact arrangement (Plug-in side)



## Technical data

### General features

|                           |                                                                 |
|---------------------------|-----------------------------------------------------------------|
| Part no.                  | <b>77 3434 3429 20712-0030</b>                                  |
| Connector design          | connection cable male cable connector - female angled connector |
| Cable length              | 0,3 m                                                           |
| Version                   | connecting cable                                                |
| Connector locking system  | screw                                                           |
| Termination               | moulded cable                                                   |
| Degree of protection      | IP68/IP69K                                                      |
| Cross-sectional area      | 0.25 mm <sup>2</sup> / AWG 24                                   |
| Temperature range from/to | -25 °C / 90 °C                                                  |
| Mechanical operation      | > 100 Mating cycles                                             |
| Weight (g)                | 110.0                                                           |
| Customs tariff number     | 85444290                                                        |

### Electrical parameters

|                           |            |
|---------------------------|------------|
| Rated voltage             | 30 V       |
| Rated impulse voltage     | 800 V      |
| Rated current (40 °C)     | 1,5 A      |
| Pollution degree          | 3          |
| Overvoltage category      | II         |
| Insulating material group | II         |
| EMC compliance            | unshielded |

# Product data sheet

## Automation technology - sensors and actuators



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### Material

|                       |                                      |
|-----------------------|--------------------------------------|
| Contact body material | PUR                                  |
| Contact material      | CuZn (brass) / CuSn (bronze)         |
| Contact plating       | Au (gold)                            |
| REACH SVHC            | CAS 7439-92-1 (Lead)                 |
| SCIP number           | 847e0d76-107a-4cc4-8f13-27b1f84a59f5 |

### Authorization/approvals

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

### Cable data - Structure of the cable

|                        |                           |
|------------------------|---------------------------|
| Cable diameter         | 6.6 mm                    |
| Cross section          | 12 x 0.25 mm <sup>2</sup> |
| Sheath material        | PVC                       |
| Single-lead insulation | PVC                       |
| Single-lead structure  | 32 x 0.10 mm              |
| Cable color            | grey                      |

### Cable data - Mechanical properties

|                              |                                              |
|------------------------------|----------------------------------------------|
| Bending radius, fixed cable  | $\geq 5 \times \varnothing$                  |
| Bending radius, moving cable | $\geq 10 \times \varnothing$                 |
| Bending cycles               | >2 million                                   |
| Permitted acceleration       | max. 5 m/s <sup>2</sup> + 1 m/s <sup>2</sup> |
| Travel distance, horizontal  | 5 m                                          |
| Travel distance, vertical    | 2 m                                          |
| Travel speed                 | $\leq 200$ 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 |

|                     |                                                                                                                                                                                  |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
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| Area                | <b>M12-A series 763</b>                                                                                                                                                          |
| Part no.            | <b>77 3434 3429 20712-0030</b>                                                                                                                                                   |

## **General Disclaim Notice**

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.

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

Plug connectors with enclosure protection IP 67 and IP 68 are not suitable for use under water. 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. 60 cNm).