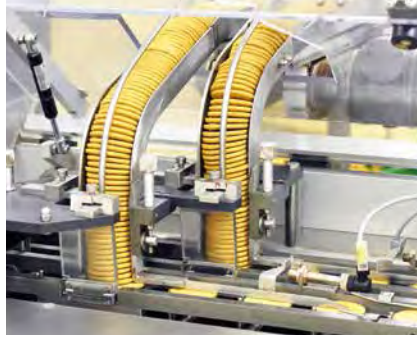


# CONNECTORS FOR THE FOOD INDUSTRY

FOOD AND BEVERAGE





Diverse  
application  
possibilities



## SECTORS AND FIELDS OF APPLICATION

The new binder M12 connector programme is specially designed to fulfil the requirements of the food and beverage industry. All products are both IP69K and Ecolab (ECL) tested.

In addition, 1.4404 stainless steel and special plastics is used to ensure corrosion resistance, making these products ideally suited for packaging, processing and filling facilities for foods and beverages.

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Industrial food processing, especially, offers possible new areas of application, including:

- breweries,
- cheese factories,
- dairies,
- slaughterhouses,
- bottling and filling plants,
- food warehouses.

# M12-A

Series	713, 763, 765
Contacts	3, 4, 5, 8, 12
Coding	A
Thread	M12 x 1
Rated current	4 A, 2 A
Rated voltage	250 V, 125 V, 60 V
Degree of protection	IP67, IP68, IP69K
Contact plating	Au
Termination	for assembly, moulded
Cable	PVC



**NEW**

## M12 A-Coded Connectors for FOOD AND BEVERAGE

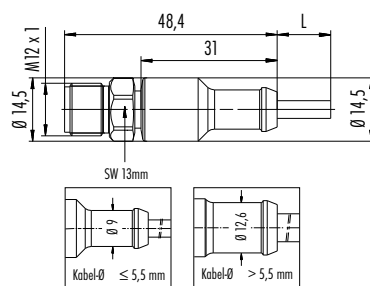
- For applications in the fields of food, pharmaceuticals as well as chemical
- Certified in accordance with UL and Ecolab (ECL)
- Stainless steel locking thread (V4A)
- Protection degree IP67, IP68, IP69K
- M12 versions with all pole numbers
- Appealing design in cream white/grey

### Description

Male cable connector, moulded, PVC (grey)

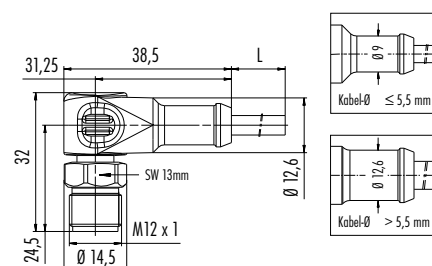


### Drawing



Contacts	Cable length, PVC	Ordering-No.
3	2 m	77 3729 0000 20403-0200
	5 m	77 3729 0000 20403-0500
4	2 m	77 3729 0000 20404-0200
	5 m	77 3729 0000 20404-0500
5	2 m	77 3729 0000 20405-0200
	5 m	77 3729 0000 20405-0500
8	2 m	77 3729 0000 20908-0200
	5 m	77 3729 0000 20908-0500
12	2 m	77 3729 0000 20912-0200
	5 m	77 3729 0000 20912-0500

Male angled connector, moulded, PVC (grey)



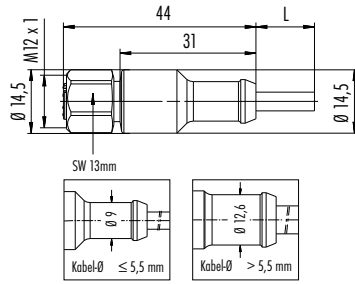
3	2 m	77 3727 0000 20403-0200
	5 m	77 3727 0000 20403-0500
4	2 m	77 3727 0000 20404-0200
	5 m	77 3727 0000 20404-0500
5	2 m	77 3727 0000 20405-0200
	5 m	77 3727 0000 20405-0500
8	2 m	77 3727 0000 20908-0200
	5 m	77 3727 0000 20908-0500
12	2 m	77 3727 0000 20912-0200
	5 m	77 3727 0000 20912-0500

# M12 A-Coding

## Description

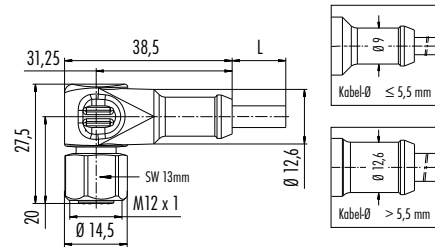
Female cable connector, moulded, PVC (grey)

## Drawing



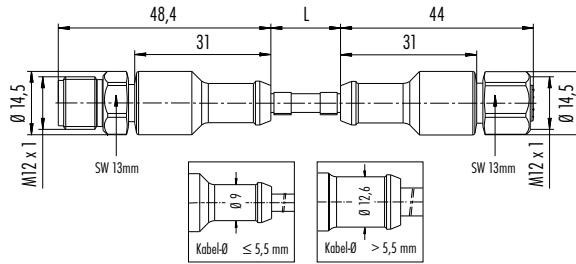
Contacts	Cable length, PVC	Ordering-No.
3	2 m	77 3730 0000 20403-0200
	5 m	77 3730 0000 20403-0500
4	2 m	77 3730 0000 20404-0200
	5 m	77 3730 0000 20404-0500
5	2 m	77 3730 0000 20405-0200
	5 m	77 3730 0000 20405-0500
8	2 m	77 3730 0000 20908-0200
	5 m	77 3730 0000 20908-0500
12	2 m	77 3730 0000 20912-0200
	5 m	77 3730 0000 20912-0500

Female angled connector, moulded, PVC (grey)



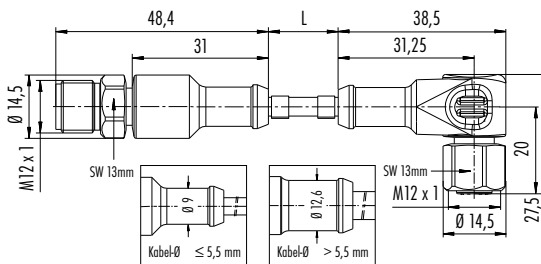
3	2 m	77 3734 0000 20403-0200
	5 m	77 3734 0000 20403-0500
4	2 m	77 3734 0000 20404-0200
	5 m	77 3734 0000 20404-0500
5	2 m	77 3734 0000 20405-0200
	5 m	77 3734 0000 20405-0500
8	2 m	77 3734 0000 20908-0200
	5 m	77 3734 0000 20908-0500
12	2 m	77 3734 0000 20912-0200
	5 m	77 3734 0000 20912-0500

Connecting cable, Male cable connector M12 x 1 – Female cable connector M12 x 1, PVC (grey)



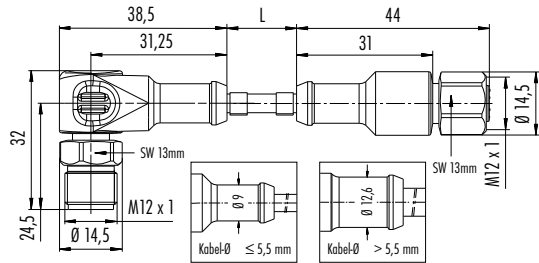
3	2 m	77 3730 3729 20403-0200
	5 m	77 3730 3729 20403-0500
4	2 m	77 3730 3729 20404-0200
	5 m	77 3730 3729 20404-0500
5	2 m	77 3730 3729 20405-0200
	5 m	77 3730 3729 20405-0500
8	2 m	77 3730 3729 20908-0200
	5 m	77 3730 3729 20908-0500
12	2 m	77 3730 3729 20912-0200
	5 m	77 3730 3729 20912-0500

Connecting cable, Male cable connector M12 x 1 – Female angled connector M12 x 1, PVC (grey)



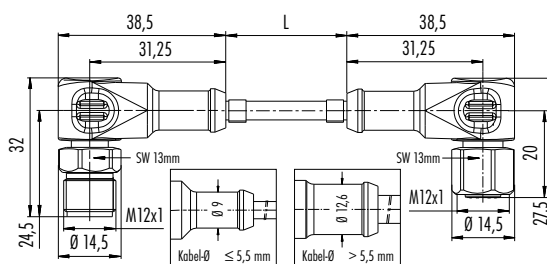
3	2 m	77 3734 3729 20403-0200
	5 m	77 3734 3729 20403-0500
4	2 m	77 3734 3729 20404-0200
	5 m	77 3734 3729 20404-0500
5	2 m	77 3734 3729 20405-0200
	5 m	77 3734 3729 20405-0500
8	2 m	77 3734 3729 20908-0200
	5 m	77 3734 3729 20908-0500
12	2 m	77 3734 3729 20912-0200
	5 m	77 3734 3729 20912-0500

Connecting cable, Male angled connector M12 x 1 – Female cable connector M12 x 1, PVC (grey)



3	2 m	77 3730 3727 20403-0200
	5 m	77 3730 3727 20403-0500
4	2 m	77 3730 3727 20404-0200
	5 m	77 3730 3727 20404-0500
5	2 m	77 3730 3727 20405-0200
	5 m	77 3730 3727 20405-0500
8	2 m	77 3730 3727 20908-0200
	5 m	77 3730 3727 20908-0500
12	2 m	77 3730 3727 20912-0200
	5 m	77 3730 3727 20912-0500

Connecting cable, Male angled connector M12 x 1 – Female angled connector M12 x 1, PVC (grey)

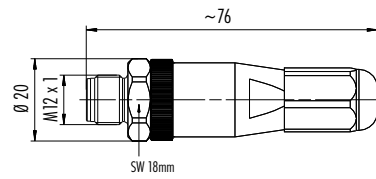


3	2 m	77 3734 3727 20403-0200
	5 m	77 3734 3727 20403-0500
4	2 m	77 3734 3727 20404-0200
	5 m	77 3734 3727 20404-0500
5	2 m	77 3734 3727 20405-0200
	5 m	77 3734 3727 20405-0500
8	2 m	77 3734 3727 20908-0200
	5 m	77 3734 3727 20908-0500
12	2 m	77 3734 3727 20912-0200
	5 m	77 3734 3727 20912-0500

# M12 A-Coding

## Description

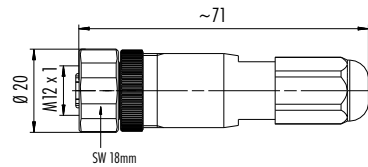
Male cable connector, screw clamp, IP68, IP69K



Contacts	Cable outlet	Ordering-No.
4	4-6,5 mm	99 0429 687 04
5		99 0437 687 05

**NEW**

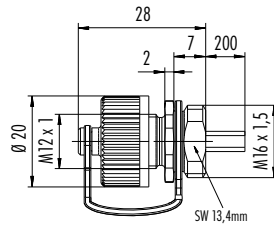
Female cable connector, screw clamp, IP68, IP69K



4	4-6,5 mm	99 0430 687 04
5		99 0436 687 05

**NEW**

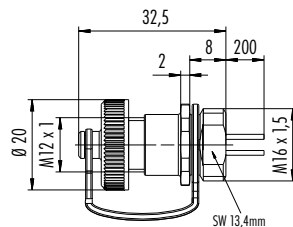
Male panel mount connector with single wires, IP68, IP69K



Contacts	Fixing thread	Ordering-No.
4	M16 x 1,5	09 3431 284 04
5		09 3441 284 05

**NEW**

Male panel mount connector with single wires, IP68, IP69K



4	M16 x 1,5	09 3432 284 04
5		09 3442 284 05

**NEW**



<sup>1)</sup> Standard wire length is 200 mm for 76-order-numbers. Other length on request.

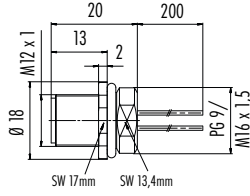
# M12 A-Coding

**Description**

**Drawing**

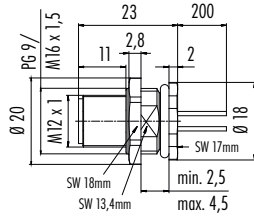
**Contacts**   **Fixing thread**   **Ordering-No.**

Male panel mount connector with single wires, metal housing, stainless steel



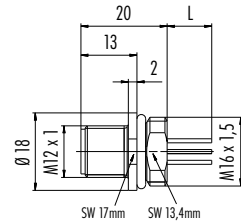
Contacts	Fixing thread	Ordering-No.
4	PG 9	76 2131 0111 00004-0200
	M16 x 1,5	76 2231 0111 00004-0200
5	PG 9	76 2131 0111 00005-0200
	M16 x 1,5	76 2231 0111 00005-0200
8	PG 9	76 2131 0111 00008-0200
	M16 x 1,5	76 2231 0111 00008-0200

Male panel mount connector, front fastened, with single wires, metal housing, stainless steel



4		76 2531 1111 00004-0200
5	PG 9	76 2531 1111 00005-0200
8		76 2531 1111 00008-0200

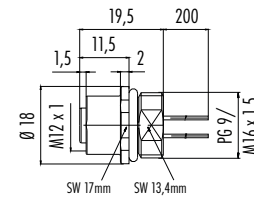
Male panel mount connector with single wires, AWG 24, M16 x 1,5, plastic housing



4		76 4331 0011 00004-0200
5	M16 x 1,5	76 4331 0011 00005-0200
8		76 4331 0011 00008-0200

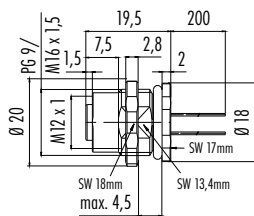
**NEW**

Female panel mount connector with single wires, metal housing, stainless steel



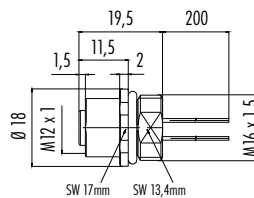
4	PG 9	76 2132 0111 00004-0200
	M16 x 1,5	76 2232 0111 00004-0200
5	PG 9	76 2132 0111 00005-0200
	M16 x 1,5	76 2232 0111 00005-0200
8	PG 9	76 2132 0111 00008-0200
	M16 x 1,5	76 2232 0111 00008-0200

Female panel mount connector, front fastened, with single wires, metal housing, stainless steel



4		76 2532 1111 00004-0200
5	PG 9	76 2532 1111 00005-0200
8		76 2532 1111 00008-0200

Female panel mount connector with single wires, AWG 24, M16 x 1,5, plastic housing



4		76 4332 0011 00004-0200
5	M16 x 1,5	76 4332 0011 00005-0200
8		76 4332 0011 00008-0200

**NEW**

<sup>1)</sup> Standard wire length is 200 mm for 76-order-numbers. Other length on request.

# CONNECTORS

## THAT MEET THE HIGH STANDARDS OF THE

# FOOD AND BEVERAGE

## INDUSTRY



### OVERVIEW AND FUNCTION

In the food and beverage industry, more stringent hygiene requirements have to be met for machinery and systems as well as their components. This also applies to the connectors used.

binder is expanding its product portfolio to include field-attachable cable and panel mount connectors, moulded cable and angled connectors, and connecting cables for application in the food and beverage industry. The moulded casings are made of a creamy white polypropylene plastic (similar to RAL 9002). The connecting cables used are PVC cables with a grey cable jacket. This specification ensures that these versions not only look different from the standard connectors; the light surface means dirt and residue are easy to see.

For connectors, this means the use of high-quality materials such as stainless steel and special plastics, as well as the smoothest possible contours to prevent dirt adhesion. In addition, a high protection class (IP68 and IP69K) is required as the systems are cleaned under high pressure. Since cleaning often involves the use of aggressive chemicals, the connectors must be permanently resistant to these.

In addition to the existing tests and the UL certification (in preparation), these articles have also been given the Ecolab (ECL) test seal, which confirms the material's resistance to detergents and disinfectants.

### CRITERIA FOR COMPONENTS

- 3- to 12-pin contacts, depending on design
- Temperature range of  $-40\text{ }^{\circ}\text{C}$  to  $+105\text{ }^{\circ}\text{C}$
- High degree of protection of IP67, IP68, IP69K
- Ecolab (ECL) tested
- Metal parts made of 1.4404 stainless steel
- UL certification in preparation

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