



FOOD AND BEVERAGE

Connectors for the food & beverage industry



www.binder-connector.de

CONNECTORS THAT MEET THE HIGH STANDARDS OF THE FOOD AND BEVERAGE INDUSTRY

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.

Food production can be roughly divided into three zones.

1 Product contact zone

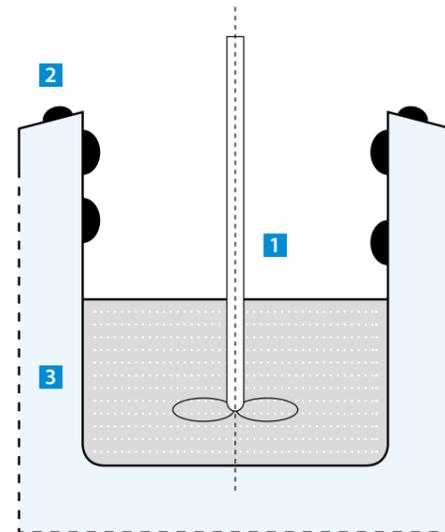
Very strict hygiene requirements, as the food can come into contact with the product and then re-enter the processing process.

2 Washdown zone

Food can come into contact with the products, but does not subsequently return back into the food production process. The connectors are cleaned under high pressure with aggressive cleaning agents.

3 Packing zone

Comparable to the classic industrial environment.



We recommend our products for the washdown zone.

The binder product portfolio for applications in the food industry includes field-wireable cable and panel mount connectors, over-moulded cable and angled connectors as well as connecting cables.

The binder M12 connector programme is specially designed to fulfil the industrial requirements of the food and beverage industry. All products are both IP69K and Ecolab (ECL) tested. In addition, some of these products are FDA-compliant. Corrosion resistance is ensured by the use of stainless steel 1.4404 and special plastics. As a result these products are ideal for areas where aggressive cleaning agents and procedures must be withstood.

SECTORS AND FIELDS OF APPLICATION

- Bottling & filling plants
- Food warehouses
- Breweries
- Dairies
- Cheese factories
- Slaughterhouses



PRODUCT OVERVIEW



M12 Automation Technology A-Coding 713 · 763 Series

- Connectors with screw locking acc. to DIN EN 61076-2-101
- 3–12 contacts
- Degree of protection IP68 / IP69K
- Easy assembly
- Very good EMC characteristics



M12-A
713 · 763 Series

FEATURES

- For applications in the food & beverage and chemical industry
- Number of contacts depending on version, from 3 to 12 poles
- Certifications according to UL and Ecolab¹⁾ (ECL)
- Compliant according to FDA²⁾ 21 CFR 177.2600 (selected products)
- Extended temperature range –40 °C up to +105 °C
- Corrosion-free stainless steel screw connection (V4A)
- Easy to clean surface
- Degree of protection IP68 / IP69K



¹⁾ **ECOLAB**

Confirms material resistance to cleaning agents and disinfectants.

²⁾ **FDA**

Food and drug monitoring in the US market.

CONTENTS

| Range | Series | Contacts | Degree of protection |
|---|-----------|----------|----------------------|
| ■ Connectors for the food & beverage industry | | | |
| M12-A | 713 · 763 | 3–12 | IP68 / IP69K |

Male cable connector, moulded, stainless steel locking ring, food and beverage



ECOLAB



| Contacts | Cable length | PVC ¹⁾ cUL US LISTED | PP ¹⁾ acc. to FDA |
|----------|--------------|---------------------------------|------------------------------|
| 3 | 2 m | 77 3729 0000 20403-0200 | 77 3729 0000 40403-0200 |
| 4 | | 77 3729 0000 20404-0200 | 77 3729 0000 40404-0200 |
| 5 | | 77 3729 0000 20405-0200 | 77 3729 0000 40405-0200 |

| Contacts | Cable length | PVC ¹⁾ cUL US LISTED | PP ¹⁾ acc. to FDA |
|----------|--------------|---------------------------------|------------------------------|
| 8 | 2 m | 77 3729 0000 20908-0200 | 77 3729 0000 40908-0200 |
| 12 | | 77 3729 0000 20912-0200 | 77 3729 0000 40912-0200 |

Male angled connector, moulded, stainless steel locking ring, food and beverage



ECOLAB



| Contacts | Cable length | PVC ¹⁾ cUL US LISTED | PP ¹⁾ acc. to FDA |
|----------|--------------|---------------------------------|------------------------------|
| 3 | 2 m | 77 3727 0000 20403-0200 | 77 3727 0000 40403-0200 |
| 4 | | 77 3727 0000 20404-0200 | 77 3727 0000 40404-0200 |
| 5 | | 77 3727 0000 20405-0200 | 77 3727 0000 40405-0200 |

| Contacts | Cable length | PVC ¹⁾ cUL US LISTED | PP ¹⁾ acc. to FDA |
|----------|--------------|---------------------------------|------------------------------|
| 8 | 2 m | 77 3727 0000 20908-0200 | 77 3727 0000 40908-0200 |
| 12 | | 77 3727 0000 20912-0200 | 77 3727 0000 40912-0200 |

Female cable connector, moulded, stainless steel locking ring, food and beverage



ECOLAB



| Contacts | Cable length | PVC ¹⁾ cUL US LISTED | PP ¹⁾ acc. to FDA |
|----------|--------------|---------------------------------|------------------------------|
| 3 | 2 m | 77 3730 0000 20403-0200 | 77 3730 0000 40403-0200 |
| 4 | | 77 3730 0000 20404-0200 | 77 3730 0000 40404-0200 |
| 5 | | 77 3730 0000 20405-0200 | 77 3730 0000 40405-0200 |

| Contacts | Cable length | PVC ¹⁾ cUL US LISTED | PP ¹⁾ acc. to FDA |
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| 8 | 2 m | 77 3730 0000 20908-0200 | 77 3730 0000 40908-0200 |
| 12 | | 77 3730 0000 20912-0200 | 77 3730 0000 40912-0200 |

Female angled connector, moulded, stainless steel locking ring, food and beverage



ECOLAB



| Contacts | Cable length | PVC ¹⁾ cUL US LISTED | PP ¹⁾ acc. to FDA |
|----------|--------------|---------------------------------|------------------------------|
| 3 | 2 m | 77 3734 0000 20403-0200 | 77 3734 0000 40403-0200 |
| 4 | | 77 3734 0000 20404-0200 | 77 3734 0000 40404-0200 |
| 5 | | 77 3734 0000 20405-0200 | 77 3734 0000 40405-0200 |

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| 8 | 2 m | 77 3734 0000 20908-0200 | 77 3734 0000 40908-0200 |
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Male cable connector M12 x 1 – female cable connector M12 x 1, stainless steel locking ring, food and beverage



ECOLAB



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Male cable connector M12 x 1 – female angled connector M12 x 1, stainless steel locking ring, food and beverage



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Male angled connector M12 x 1 – female cable connector M12 x 1, stainless steel locking ring, food and beverage



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Male angled connector M12 x 1 – female angled connector M12 x 1, stainless steel locking ring, food and beverage



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| 8 | 2 m | 77 3734 3727 20908-0200 | 77 3734 3727 40908-0200 |
| 12 | | 77 3734 3727 20912-0200 | 77 3734 3727 40912-0200 |

Male cable connector, screw clamp connection, plastic version



| Contacts | Cable outlet | Ordering-No. |
|----------|--------------|----------------|
| 4 | 4-6.5 mm | 99 0429 684 04 |
| 5 | | 99 0437 684 05 |

Female cable connector, screw clamp connection, plastic version



| Contacts | Cable outlet | Ordering-No. |
|----------|--------------|----------------|
| 4 | 4-6.5 mm | 99 0430 684 04 |
| 5 | | 99 0436 684 05 |

Male cable connector, screw clamp connection, with shielding ring, stainless steel version, shieldable



| Contacts | Cable outlet | Ordering-No. |
|----------|--------------|----------------|
| 4 | 3-5,5 mm | 99 1429 991 04 |
| | 5,5-8,6 mm | 99 1429 992 04 |
| 5 | 3-5,5 mm | 99 1437 991 05 |
| | 5,5-8,6 mm | 99 1437 992 05 |
| 8 | 5,5-8,6 mm | 99 1487 992 08 |

Female cable connector, screw clamp connection, with shielding ring, stainless steel version, shieldable



| Contacts | Cable outlet | Ordering-No. |
|----------|--------------|----------------|
| 4 | 3-5,5 mm | 99 1430 991 04 |
| | 5,5-8,6 mm | 99 1430 992 04 |
| 5 | 3-5,5 mm | 99 1436 991 05 |
| | 5,5-8,6 mm | 99 1436 992 05 |
| 8 | 5,5-8,6 mm | 99 1486 992 08 |
| 12 | 5,5-8,6 mm | 99 1492 992 12 |

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Male panel mount connector with single wires, IP68, IP69K



| Contacts | Fixing thread | Ordering-No. ¹⁾ |
|----------|---------------|----------------------------|
| 4 | M16 x 1.5 | 09 3431 284 04 |
| 5 | | 09 3441 284 05 |

Female panel mount connector with single wires, IP68, IP69K



| Contacts | Fixing thread | Ordering-No. ¹⁾ |
|----------|---------------|----------------------------|
| 4 | M16 x 1.5 | 09 3432 284 04 |
| 5 | | 09 3442 284 05 |

Male panel mount connector with single wires, AWG 24, plastic housing



| Contacts | Fixing thread | Ordering-No. ¹⁾ |
|----------|---------------|----------------------------|
| 4 | M16 x 1.5 | 76 4331 0011 00004-0200 |
| 5 | | 76 4331 0011 00005-0200 |
| 8 | | 76 4331 0011 00008-0200 |
| 12 | | 76 4331 0111 00012-0200 |

Female panel mount connector with single wires, AWG 24, plastic housing



| Contacts | Fixing thread | Ordering-No. ¹⁾ |
|----------|---------------|----------------------------|
| 4 | M16 x 1.5 | 76 4332 0011 00004-0200 |
| 5 | | 76 4332 0011 00005-0200 |
| 8 | | 76 4332 0011 00008-0200 |
| 12 | | 76 4332 0111 00012-0200 |

Male panel mount connector with single wires, metal housing



| Contacts | Fixing thread | Material | Ordering-No. ¹⁾ |
|----------|---------------|-----------------|----------------------------|
| 4 | PG 9 | stainless steel | 76 2131 0111 00004-0200 |
| | M16 x 1.5 | stainless steel | 76 2231 0111 00004-0200 |
| 5 | PG 9 | stainless steel | 76 2131 0111 00005-0200 |
| | M16 x 1.5 | stainless steel | 76 2231 0111 00005-0200 |
| 8 | PG 9 | stainless steel | 76 2131 0111 00008-0200 |
| | M16 x 1.5 | stainless steel | 76 2231 0111 00008-0200 |
| 12 | PG 9 | stainless steel | 76 2131 0111 00012-0200 |
| | M16 x 1.5 | stainless steel | 76 2231 0111 00012-0200 |

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



| Contacts | Fixing thread | Material | Ordering-No. ¹⁾ |
|----------|---------------|-----------------|----------------------------|
| 4 | PG 9 | stainless steel | 76 2531 1111 00004-0200 |
| | M16 x 1.5 | stainless steel | 76 2631 1111 00004-0200 |
| 5 | PG 9 | stainless steel | 76 2531 1111 00005-0200 |
| | M16 x 1.5 | stainless steel | 76 2631 1111 00005-0200 |
| 8 | PG 9 | stainless steel | 76 2531 1111 00008-0200 |
| | M16 x 1.5 | stainless steel | 76 2631 1111 00008-0200 |
| 12 | PG 9 | stainless steel | 76 2531 1111 00012-0200 |
| | M16 x 1.5 | stainless steel | 76 2631 1111 00012-0200 |

Female panel mount connector with single wires, metal housing

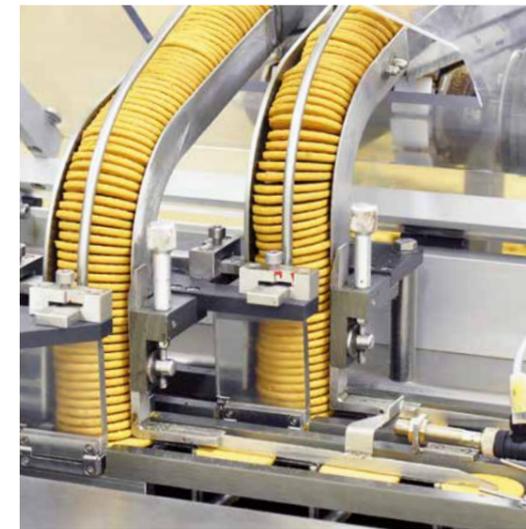


| Contacts | Fixing thread | Material | Ordering-No. ¹⁾ |
|----------|---------------|-----------------|----------------------------|
| 4 | PG 9 | stainless steel | 76 2132 0111 00004-0200 |
| | M16 x 1.5 | stainless steel | 76 2232 0111 00004-0200 |
| 5 | PG 9 | stainless steel | 76 2132 0111 00005-0200 |
| | M16 x 1.5 | stainless steel | 76 2232 0111 00005-0200 |
| 8 | PG 9 | stainless steel | 76 2132 0111 00008-0200 |
| | M16 x 1.5 | stainless steel | 76 2232 0111 00008-0200 |
| 12 | PG 9 | stainless steel | 76 2132 0111 00012-0200 |
| | M16 x 1.5 | stainless steel | 76 2232 0111 00012-0200 |

Female panel mount connector, front fastened, with single wir, metal housing



| Contacts | Fixing thread | Material | Ordering-No. ¹⁾ |
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| 4 | PG 9 | stainless steel | 76 2532 1111 00004-0200 |
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| 12 | PG 9 | stainless steel | 76 2532 1111 00012-0200 |
| | M16 x 1.5 | stainless steel | 76 2632 1111 00012-0200 |





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Specifications may be changed without notice, errors excepted.

AGB: www.binder-connector.com/en/terms

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