

PLUG CONNECTORS FOR FOOD & BEVERAGE

- Made with stainless steel
- Food grade quality
- High protection degree

MEETS DEMANDING HYGIENIC STANDARDS

The food and beverage industry needs an extremely clean environment – perfect hygiene is required. Products and components have to be highly resistant and handle tough environments. Murrelektronik offers a wide connector range for this industry and each product meets the tough requirements. All metal parts are made of stainless steel and the cables feature a PVC or TPE-S jacket.

Murrelektronik is closely connected to this industry and can fulfill all the important requirements of the food and beverage industry. And Murrelektronik offers even more:

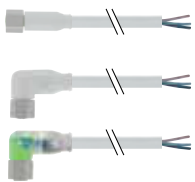
- System solutions
- Comprehensive diagnostic options
- Vibration-proof products
- Excellent logistics for fast deliveries
- Specialists with industry-specific knowledge

ECOLAB®



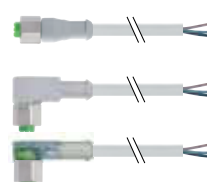
STAINLESS STEEL

With Open Ended Wires



- M8 female**
- Straight
 - 90°
 - 90° with LED

Page 3.7.1



- M12 female**
- Straight
 - 90°
 - 90° with LED

Page 3.7.4



- M12 Steel female**
- Straight

Page 3.7.7



- Valve Connectors**
- Form A (18 mm)
 - Form B (10 mm)
 - Form BI (11 mm)
 - Form C (8 mm)
 - Form CI (9.4 mm)

Page 3.7.8

Connection Cables

| | | | |
|---|---|---|--|
|  |  | <p>M12 male</p> <ul style="list-style-type: none"> • Straight | <p>M12 female</p> <ul style="list-style-type: none"> • Straight • 90° • 90° with LED |
|---|---|---|--|


Page 3.7.11

| | | | |
|---|---|---|---|
|  |  | <p>M12 Steel male</p> <ul style="list-style-type: none"> • Straight | <p>M12 Steel female</p> <ul style="list-style-type: none"> • Straight |
|---|---|---|---|

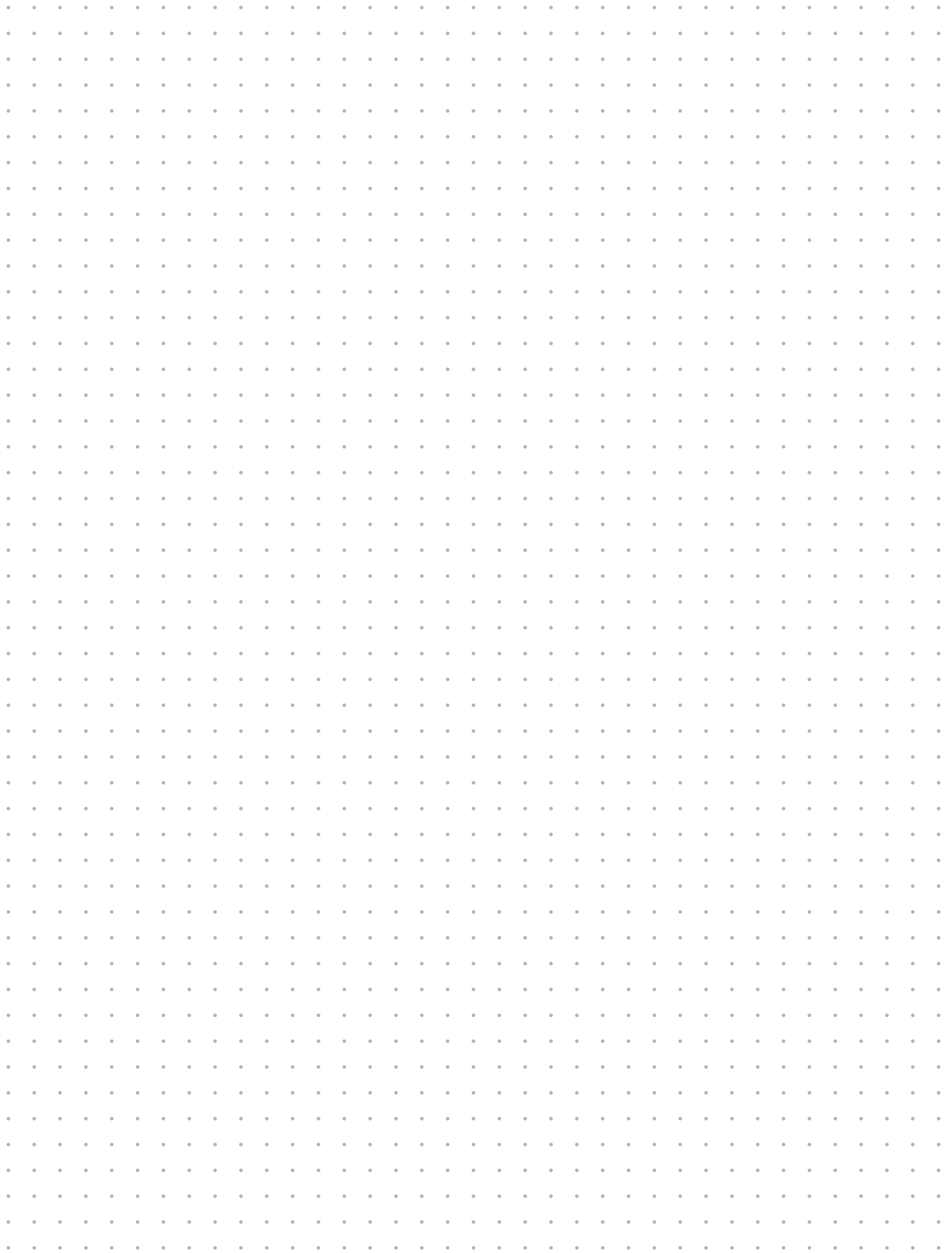
Page 3.7.13

Field-Wireable

| | | | |
|---|--|--|--|
|  | <p>Insulation Displacement Technology</p> | <p>M12 male</p> <ul style="list-style-type: none"> • Straight <p>M12 female</p> <ul style="list-style-type: none"> • Straight • 90° | <p style="text-align: right;"><i>Page 3.7.14</i></p> |
|---|--|--|--|

| | | | |
|---|-------------------------------|---|--|
|  | <p>Screw Terminals</p> | <p>M12 male/female</p> <ul style="list-style-type: none"> • Straight • 90° | <p style="text-align: right;"><i>Page 3.7.15</i></p> |
|---|-------------------------------|---|--|

NOTES



PLUG CONNECTORS FOR FOOD & BEVERAGE

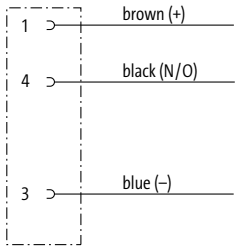
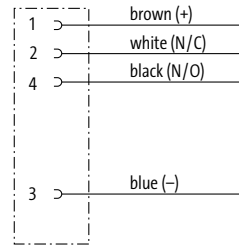
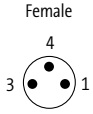
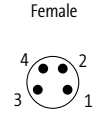
Open ended wires

- M8
- Stainless Steel 1.4404 (V4A)

Approvals: 

Female
straight



| 1 Form | | 08041 | 08061 |
|---|--|---|--|
| Type | | 3-pole | 4-pole |
| Circuit diagram | |  |  |
| Contact layout | | <p>Female</p>  | <p>Female</p>  |
| 2 Cable Type | | Jacket Color | Jacket Color |
| Wire diameter 0.25 mm ² PVC (UL/CSA) | | gray 210 | gray 211 |
| 3 Cable Length | | | |
| 1.5 m | | 0150 | |
| 3.0 m | | 0300 | |
| 5.0 m | | 0500 | |
| 7.5 m | | 0750 | |
| 10.0 m | | 1000 | |
| Technical Data | | | |
| Operating voltage | | max. 60 V AC/DC | max. 30 V AC/DC |
| Protection | | IP65, IP67, IP68 inserted and tightened (EN 60529) | |
| Temperature range | | -25...+85 °C | |
| Article No. | | | |
| The composition of your article number is explained on page 3.1.i | | <p><u>7 0 1 4</u> - - - - - - - - - -</p> | |
| | | 1 Form | 2 Cable Type |
| | | | 3 Cable Length |
| Notes | | Other versions on request. Further cable lengths on request. | |

PLUG CONNECTORS FOR FOOD & BEVERAGE

Open ended wires

– M8

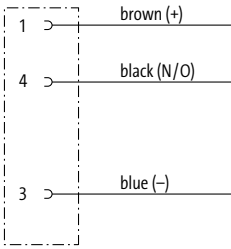
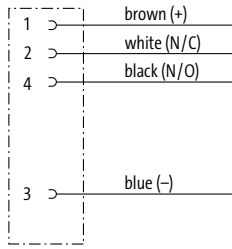


– Stainless Steel 1.4404 (V4A)

Approvals:  

Female

90°



| 1 Form | 08081 | 08101 |
|---|--|--|
| Type | 3-pole | 4-pole |
| Circuit diagram |  |  |
| Contact layout | <p>Female</p>  | <p>Female</p>  |
| 2 Cable Type | Jacket Color | Jacket Color |
| Wire diameter 0.25 mm ² PVC (UL/CSA) | gray 210 | gray 211 |
| 3 Cable Length | | |
| 1.5 m | 0150 | |
| 3.0 m | 0300 | |
| 5.0 m | 0500 | |
| 7.5 m | 0750 | |
| 10.0 m | 1000 | |
| Technical Data | | |
| Operating voltage | max. 60 V AC/DC | max. 30 V AC/DC |
| Protection | IP65, IP67, IP68 inserted and tightened (EN 60529) | |
| Temperature range | -25...+85 °C | |
| Article No. | | |
| The composition of your article number is explained on page 3.1.i | <div style="display: flex; justify-content: space-around; align-items: center;"> 7 0 1 4 - - </div> | |
| | 1 Form | 2 Cable Type |
| | | 3 Cable Length |
| Notes | Other versions on request. Further cable lengths on request. | |

Plug Connectors for Food & Beverage

PLUG CONNECTORS FOR FOOD & BEVERAGE

Open ended wires

- M8
- Stainless Steel 1.4404 (V4A)

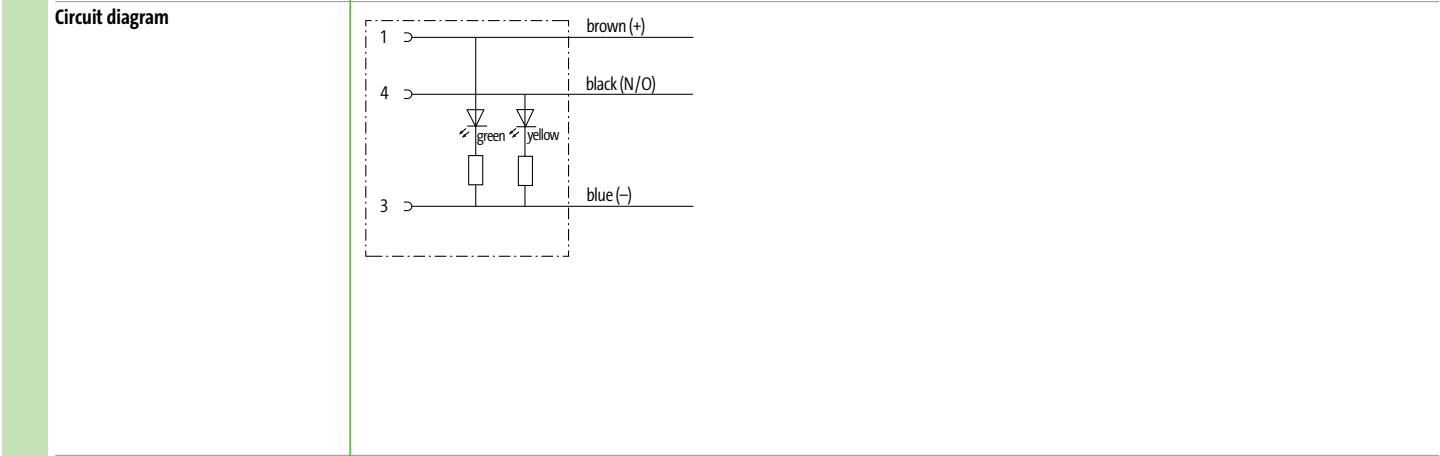
Approvals: 

Female
90° with LED



1 Form 08121

Type **3-pole with 2 x LED (PNP)**
(NPN) on request



2 Cable Type Jacket Color

| | |
|------------------------------------|------|
| Wire diameter 0.25 mm ² | gray |
| PVC (UL/CSA) | 210 |

3 Cable Length

| | |
|--------|------|
| 1.5 m | 0150 |
| 3.0 m | 0300 |
| 5.0 m | 0500 |
| 7.5 m | 0750 |
| 10.0 m | 1000 |

Technical Data

| | |
|-------------------|--|
| Operating voltage | 24 V DC ±25 % |
| Protection | IP65, IP67, IP68 inserted and tightened (EN 60529) |
| Temperature range | -25...+85 °C |

Article No.

The composition of your article number is explained on page 3.1.i

7 0 1 4 - 0 8 1 2 1 - - - -

- 1** Form
- 2** Cable Type
- 3** Cable Length

Notes

Other versions on request. Further cable lengths on request.

Plug Connectors for Food & Beverage

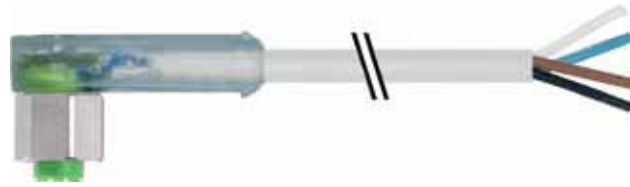
PLUG CONNECTORS FOR FOOD & BEVERAGE

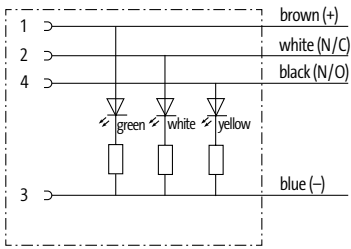

Open ended wires

- M12
- Stainless Steel 1.4404 (V4A)
- Profile gasket

Approvals: 

Female
90° with LED



| | | | | | | | | | | | | | | | | |
|---|--|--|---------------------|----------|-----------------------|----------|----------|----------|----------|----------|----------|----------|----------|---|-----|-----|
| 1 Form | | 12421 | | | | | | | | | | | | | | |
| Type | 4-pole with 3 × LED (PNP) (NPN) on request | | | | | | | | | | | | | | | |
| Circuit diagram |  | | | | | | | | | | | | | | | |
| Contact layout | <p>Female</p>  | | | | | | | | | | | | | | | |
| 2 Cable Type | | Jacket Color | | | | | | | | | | | | | | |
| Wire diameter 0.34 mm ² PVC (UL/CSA) | <table border="1"> <tr> <td>gray</td> </tr> <tr> <td>214</td> </tr> </table> | | | gray | 214 | | | | | | | | | | | |
| gray | | | | | | | | | | | | | | | | |
| 214 | | | | | | | | | | | | | | | | |
| 3 Cable Length | | | | | | | | | | | | | | | | |
| 1.5 m | 0150 | | | | | | | | | | | | | | | |
| 3.0 m | 0300 | | | | | | | | | | | | | | | |
| 5.0 m | 0500 | | | | | | | | | | | | | | | |
| 7.5 m | 0750 | | | | | | | | | | | | | | | |
| 10.0 m | 1000 | | | | | | | | | | | | | | | |
| Technical Data | | | | | | | | | | | | | | | | |
| Operating voltage | 24 V DC ±25 % | | | | | | | | | | | | | | | |
| Protection | IP65, IP67, IP68 inserted and tightened (EN 60529) | | | | | | | | | | | | | | | |
| Temperature range | -25...+85 °C | | | | | | | | | | | | | | | |
| Article No. | | | | | | | | | | | | | | | | |
| The composition of your article number is explained on page 3.1.i | <table border="1"> <tr> <td><u>7</u></td> <td><u>0</u></td> <td><u>1</u></td> <td><u>4</u></td> <td>-</td> <td><u>1</u></td> <td><u>2</u></td> <td><u>4</u></td> <td><u>2</u></td> <td><u>1</u></td> <td>-</td> <td>---</td> <td>---</td> </tr> </table> | | | <u>7</u> | <u>0</u> | <u>1</u> | <u>4</u> | - | <u>1</u> | <u>2</u> | <u>4</u> | <u>2</u> | <u>1</u> | - | --- | --- |
| <u>7</u> | <u>0</u> | <u>1</u> | <u>4</u> | - | <u>1</u> | <u>2</u> | <u>4</u> | <u>2</u> | <u>1</u> | - | --- | --- | | | | |
| | 1 Form | | 2 Cable Type | | 3 Cable Length | | | | | | | | | | | |
| Notes | | Other versions on request. Further cable lengths on request. | | | | | | | | | | | | | | |

PLUG CONNECTORS FOR FOOD & BEVERAGE

Open ended wires

– M12-Steel

– Stainless Steel 1.4404 (V4A)



Female

straight



| | | | |
|---|---|---------------------|-----------------------|
| 1 Form | | 12221 | |
| Type | 4-pole | | |
| Circuit diagram | | | |
| Contact layout | <p>Female</p> | | |
| 2 Cable Type | | Jacket Color | |
| Wire diameter 0.34 mm ² | | gray | |
| PVC (UL/CSA) | | 214 | |
| TPE-S | | 336 | |
| 3 Cable Length | | | |
| 1.5 m | 0150 | | |
| 3.0 m | 0300 | | |
| 5.0 m | 0500 | | |
| 7.5 m | 0750 | | |
| 10.0 m | 1000 | | |
| Technical Data | | | |
| Operating voltage | max. 32 V AC/DC | | |
| Protection | IP65, IP68, IP69K when plugged and screwed down (EN 60529) | | |
| Temperature range | -40...+85 °C | | |
| Article No. | | | |
| The composition of your article number is explained on page 3.1.i | <p><u>7</u> <u>0</u> <u>4</u> <u>4</u> - <u>1</u> <u>2</u> <u>2</u> <u>2</u> <u>1</u> - - -</p> | | |
| | 1 Form | 2 Cable Type | 3 Cable Length |
| Notes | Other versions on request. Further cable lengths on request. | | |

PLUG CONNECTORS FOR FOOD & BEVERAGE

Open ended wires

– Valve Connectors

– Screw, Stainless Steel 1.4404 (V4A)

Approvals:   

Form A (18 mm)



1 Form

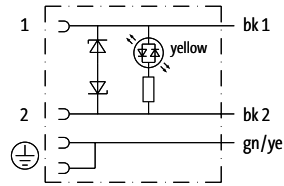
18021

Type

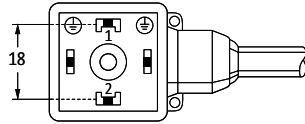
24 V AC/DC

Circuit diagram

LED and suppression



Contact layout



2 Cable Type

Jacket Color

Wire diameter 0.75 mm²

gray

PVC

216

3 Cable Length

1.5 m

0150

3.0 m

0300

5.0 m

0500

7.5 m

0750

10.0 m

1000

Technical Data

Operating voltage

24 V AC/DC ±25 %

Protection

IP65, IP68, IP69K when plugged and screwed down (EN 60529)

Temperature range

-25...+85 °C

Article No.

The composition of your article number is explained on page 3.1.i

7 0 1 4

-

1 8 0 2 1

-

1

Form

2

Cable Type

3

Cable Length

Notes

Other versions on request. Further cable lengths on request.

PLUG CONNECTORS FOR FOOD & BEVERAGE

Open ended wires

– Valve Connectors

– Screw, Stainless Steel 1.4404 (V4A)

Approvals: 

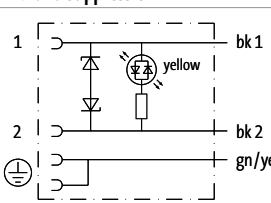
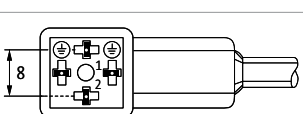
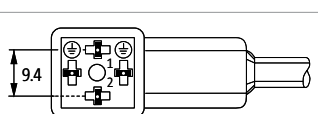
Form C (8 mm)



Form CI (9.4 mm)

Industrial standard



| | | |
|---|---|--|
| 1 Form | 80021 | 94021 |
| | Type 24 V AC/DC LED and suppression | Type 24 V AC/DC LED and suppression |
| Circuit diagram |  | |
| Contact layout |  |  |
| 2 Cable Type | Jacket Color | Jacket Color |
| Wire diameter 0.75 mm ² PVC | gray 216 | gray 216 |
| 3 Cable Length | | |
| 1.5 m | 0150 | |
| 3.0 m | 0300 | |
| 5.0 m | 0500 | |
| 7.5 m | 0750 | |
| 10.0 m | 1000 | |
| Technical Data | | |
| Operating voltage | 24 V AC/DC ±25 % | |
| Protection | IP65, IP68, IP69K when plugged and screwed down (EN 60529) | |
| Temperature range | -25...+85 °C | |
| Article No. | | |
| The composition of your article number is explained on page 3.1.i | <div style="display: flex; justify-content: space-around; align-items: center;"> 7 0 1 4 - - </div> | |
| | 1 Form | 2 Cable Type |
| | | 3 Cable Length |
| Notes | Other versions on request. Further cable lengths on request. | |

PLUG CONNECTORS FOR FOOD & BEVERAGE

Connection cables

- M12 - M12
- Stainless Steel 1.4404 (V4A)
- Profile gasket

Approvals: 

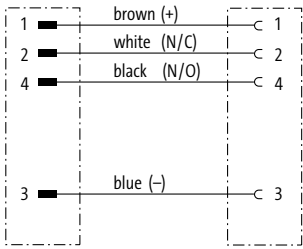
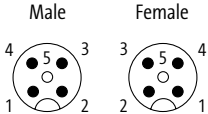
Male
straight

Female
straight

Male
straight

Female
90°



| | | |
|---|--|-----------------------|
| 1 Form | 40021 | 40121 |
| Type | 4-pole | 4-pole |
| Circuit diagram |  | |
| Contact layout |  | |
| 2 Cable Type | Jacket Color | Jacket Color |
| Wire diameter 0.34 mm ² PVC (UL/CSA) | gray 214 | gray 214 |
| 3 Cable Length | | |
| 0.3 m | 0030 | |
| 0.6 m | 0060 | |
| 1.0 m | 0100 | |
| 1.5 m | 0150 | |
| 2.0 m | 0200 | |
| Technical Data | | |
| Operating voltage | max. 250 V AC/DC | |
| Protection | IP65, IP67, IP68 inserted and tightened (EN 60529) | |
| Temperature range | -25...+85 °C | |
| Article No. | | |
| The composition of your article number is explained on page 3.1.i | <div style="display: flex; justify-content: space-around; align-items: center;"> 7 0 1 4 - - </div> | |
| | 1 Form | 2 Cable Type |
| | | 3 Cable Length |
| Notes | Other versions on request. Further cable lengths on request. | |

PLUG CONNECTORS FOR FOOD & BEVERAGE

Connection cables

- M12 - M12
- Stainless Steel 1.4404 (V4A)
- Profile gasket

Approvals: 

Male

straight

Female

90° with LED



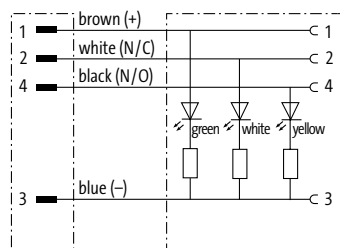
1 Form

40341

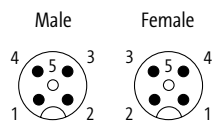
Type

4-pole with 3 × LED (PNP)
(NPN) on request

Circuit diagram



Contact layout



2 Cable Type

Jacket Color

Wire diameter 0.34 mm²
PVC (UL/CSA)

gray
214

3 Cable Length

| | |
|-------|-------------|
| 0.3 m | 0030 |
| 0.6 m | 0060 |
| 1.0 m | 0100 |
| 1.5 m | 0150 |
| 2.0 m | 0200 |

Technical Data

| | |
|-------------------|--|
| Operating voltage | 24 V DC ±25 % |
| Protection | IP65, IP67, IP68 inserted and tightened (EN 60529) |
| Temperature range | -25...+85 °C |

Article No.

The composition of your article number is explained on page 3.1.i

7 0 1 4

- 4 0 3 4 1 -

1

Form

2

Cable Type

3

Cable Length

Notes

Other versions on request. Further cable lengths on request.

PLUG CONNECTORS FOR FOOD & BEVERAGE

Connection cables

- M12-Steel
- Stainless Steel 1.4404 (V4A)

Male
straight

Female
straight



Approvals:  

| | | | |
|---|--|--|-----------------------|
| 1 Form | | 40021 | |
| Type | 4-pole | | |
| Circuit diagram | | | |
| Contact layout | | | |
| 2 Cable Type | | Jacket Color | |
| Wire diameter 0.34 mm ² | | gray | |
| PVC (UL/CSA) | | 214 | |
| TPE-S | | 336 | |
| 3 Cable Length | | | |
| 0.3 m | 0030 | | |
| 0.6 m | 0060 | | |
| 1.0 m | 0100 | | |
| 1.5 m | 0150 | | |
| 2.0 m | 0200 | | |
| Technical Data | | | |
| Operating voltage | max. 32 V AC/DC | | |
| Protection | IP65, IP68, IP69K when plugged and screwed down (EN 60529) | | |
| Temperature range | -40...+85 °C | | |
| Article No. | | | |
| The composition of your article number is explained on page 3.1.i | <u>7 0 4 4</u> - <u>4 0 0 2 1</u> - ____ - ____ | | |
| | 1 Form | 2 Cable Type | 3 Cable Length |
| Notes | | Other versions on request. Further cable lengths on request. | |

PLUG CONNECTORS FOR FOOD & BEVERAGE

Field-wireable

- M12
- Insulation displacement technology
- Stainless Steel 1.4305 (V2A)

Male straight



Female straight



Female 90°



| 1 Form | 12481 | 12601 | 12681 | |
|---|---|---------------|----------------------------|-------------------------------------|
| Type | 4-pole | 4-pole | 4-pole | |
| Circuit diagram | | | | |
| Connection cross section | | | | |
| Contact layout | <p>Male</p> | <p>Female</p> | | |
| Technical Data | | | | |
| Operating voltage | max. 32 V AC/DC | | | |
| Operating current per contact | max. 4 A | | | |
| Connection cross section | 0.25...0.5 mm ² (conductor diameter min. 0.1 mm) | | | |
| Sealing range (cable diameter) | 4...5.1 mm | | | |
| Wire isolation | PVC, PP, TPE | | | |
| Outer wire diameter | 1.2...1.6 mm | | | |
| Locking of ports | Screw thread M12 × 1 mm (recommended torque 0.6 Nm) self-securing | | | |
| Protection | IP65 and IP67 when plugged and screwed down (EN 60529) | | | |
| Locking material | Stainless Steel 1.4305 (V2A) | | | |
| Temperature range | -25...+85 °C | | | |
| Article No. | | | | |
| The composition of your article number is explained on page 3.1.i | <u>7</u> <u>0</u> <u>0</u> <u>2</u> | - | <u>0</u> <u>0</u> <u>0</u> | <u>0</u> <u>0</u> <u>0</u> <u>0</u> |
| | 1 Form | | | |
| Notes | Other versions on request. | | | |

PLUG CONNECTORS FOR FOOD & BEVERAGE

Field-wireable

– M12

– Screw terminals

– Stainless Steel 1.4404 (V4A)

Male
straight



Male
90°



Female
straight



Female
90°



| 1 Form | 12761 | 12881 | 12961 | 13041 |
|---|---|--------|---------------|--------|
| Type | 5-pole | 5-pole | 5-pole | 5-pole |
| Circuit diagram | | | | |
| Sealing range (cable diameter) | 6...8 mm | | | |
| Contact layout | <p>Male</p> | | <p>Female</p> | |
| Technical Data | | | | |
| Operating voltage | max. 125 V AC/DC | | | |
| Operating current per contact | max. 4 A | | | |
| Connection cross section | max. 0.75 mm ² | | | |
| Sealing range (cable diameter) | 6...8 mm | | | |
| Locking of ports | Screw thread M12 × 1 mm (recommended torque 0.6 Nm) self-securing | | | |
| Protection | IP65 and IP67 when plugged and screwed down (EN 60529) | | | |
| Locking material | Stainless Steel 1.4404 (V4A) | | | |
| Temperature range | -25...+85 °C | | | |
| Article No. | | | | |
| The composition of your article number is explained on page 3.1.i | <div style="display: flex; justify-content: space-around; align-items: center;"> 7 0 0 4 - - 0 0 0 0 </div> | | | |
| | 1 Form | | | |
| Notes | Other versions on request. | | | |

PLUG CONNECTORS FOR FOOD & BEVERAGE

| Labeling accessories | | | Art-No. |
|---|---|-------------------------------|--------------------|
|  | Slip-on cable sleeve for ACS label plates (4 × 18 mm) | Cable diameter (4...6.5 mm) | 7000-99004-0000000 |
|  | Snap-on cable sleeve for ACS label plates (4 × 18 mm) | Cable diameter (4.2...5.6 mm) | 7000-99005-0000000 |
| | for ACS label plates (4 × 18 mm) | Cable diameter (5...7 mm) | 7000-99006-0000000 |
|  | ACS label plate for self marking (4 × 18 mm) | Cable sleeves | 7000-99002-0000000 |
| Mounting accessories | | | Art-No. |
|  | Torque wrench set M8 (0.4 Nm, AF9) | | 7000-99101-0000000 |
|  | Torque wrench set M12 (0.6 Nm, AF13) | M12 Round Plug Connectors | 7000-99102-0000000 |
|  | Torque wrench M12 (SW18) | | 7000-99103-0000000 |
| End fitting accessories | | | Art-No. |
|  | Tube adapter snap-in for corrugated tube (size 13mm) | Cable diameter (4...7 mm) | 7000-99081-0000000 |