

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:

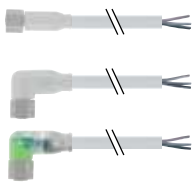
- System solutions
- Comprehensive diagnostic options
- Vibration-proof products
- Excellent logistics for fast deliveries
- Specialists with industry-specific knowledge

ECOLAB[®]



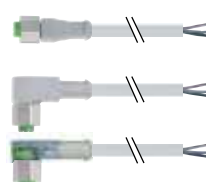
STAINLESS STEEL

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 <p><i>Page 3.7.11</i></p>
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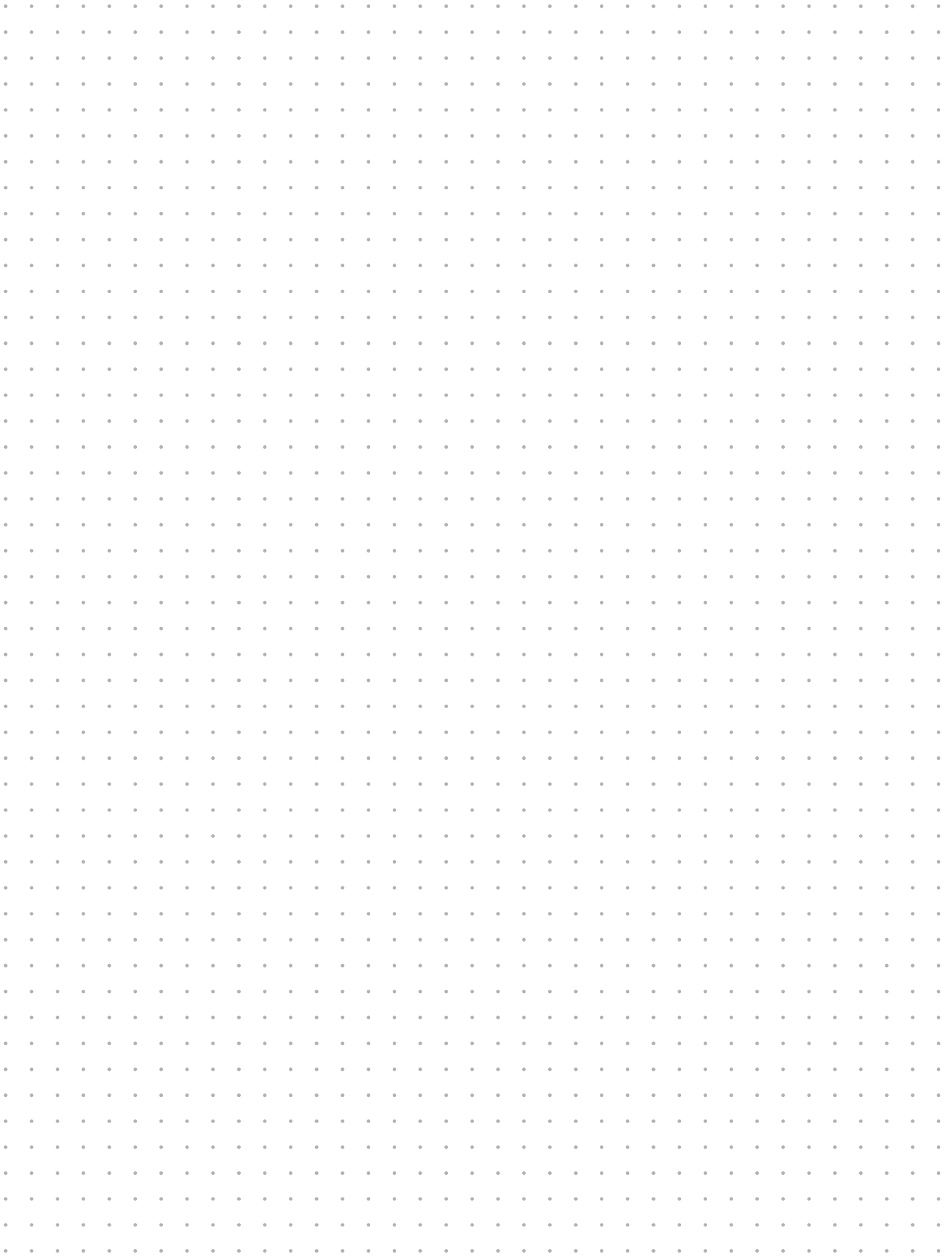
		<p>M12 Steel male</p> <ul style="list-style-type: none"> • Straight 	<p>M12 Steel female</p> <ul style="list-style-type: none"> • Straight <p><i>Page 3.7.13</i></p>
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Field-Wireable

	<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><i>Page 3.7.14</i></p>
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	<p>Screw Terminals</p>	<p>M12 male/female</p> <ul style="list-style-type: none"> • Straight • 90° 	<p><i>Page 3.7.15</i></p>
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NOTES



PLUG CONNECTORS FOR FOOD & BEVERAGE

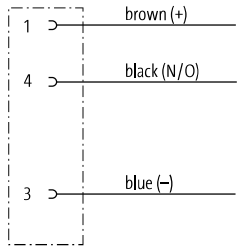
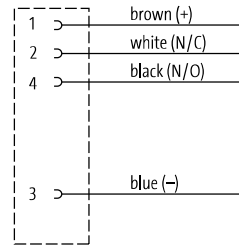


Open ended wires

- 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		<u>7</u> <u>0</u> <u>1</u> <u>4</u> - - - - - - - - - -	- - - - -
		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

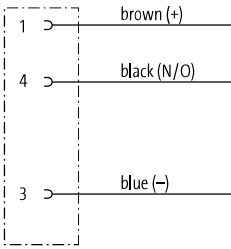
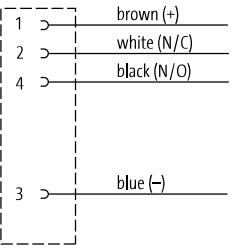


– Stainless Steel 1.4404 (V4A)

Approvals: 

Female

90°



1 Form		08081	08101
Type		3-pole	4-pole
Circuit diagram			
Contact layout		<p>Female</p> 	<p>Female</p> 
2 Cable Type		Jacket Color	
Wire diameter 0.25 mm ²		gray	gray
PVC (UL/CSA)		210	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		<u>7</u> <u>0</u> <u>1</u> <u>4</u> - - - - - - - - - -	- - - - -
		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

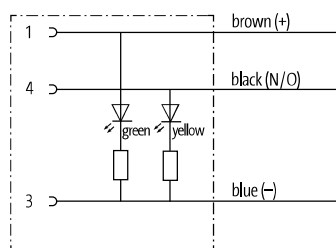
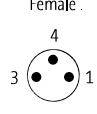
Open ended wires

- 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															
Circuit diagram																
Contact layout	<p>Female</p> 															
2 Cable Type		Jacket Color														
Wire diameter 0.25 mm ² PVC (UL/CSA)	<table border="1"> <tr> <td>gray</td> </tr> <tr> <td>210</td> </tr> </table>			gray	210											
gray																
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	<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>0</u></td> <td><u>8</u></td> <td><u>1</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>0</u>	<u>8</u>	<u>1</u>	<u>2</u>	<u>1</u>	-	---	---
<u>7</u>	<u>0</u>	<u>1</u>	<u>4</u>	-	<u>0</u>	<u>8</u>	<u>1</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
- 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	Female 		
2 Cable Type		Jacket Color	
Wire diameter 0.34 mm ² PVC (UL/CSA)	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	7 0 1 4 - 1 2 4 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

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

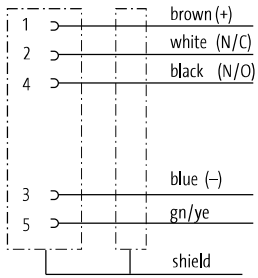

Approvals: 

Female
straight



Female
90°



1 Form	13221		13281								
	Type	5-pole		5-pole							
Circuit diagram											
Contact layout	<p>Female</p> 										
2 Cable Type	Cable Type	Jacket Color		Jacket Color							
	Wire diameter 0.34 mm ² PVC	gray 348		gray 348							
3 Cable Length	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									
	Protection	IP65, IP67, IP68 inserted and tightened (EN 60529)									
	Temperature range	-25...+85 °C									
Article No.	Article No.										
	The composition of your article number is explained on page 3.1.i	<table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 25%;">7</td> <td style="width: 25%;">0</td> <td style="width: 25%;">1</td> <td style="width: 25%;">4</td> <td>-</td> <td>-</td> <td>-</td> <td>-</td> </tr> </table>			7	0	1	4	-	-	-
7	0	1	4	-	-	-	-				
		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-Steel

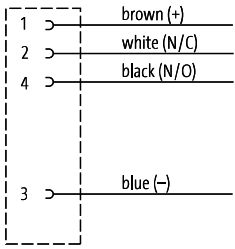

– Stainless Steel 1.4404 (V4A)

Approvals:   

Female

straight



1 Form		12221	
Type	4-pole		
Circuit diagram			
Contact layout	Female 		
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	7 0 4 4 - 1 2 2 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

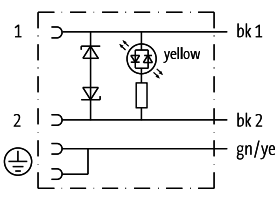
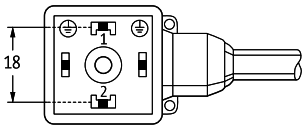
– Valve Connectors

– Screw, Stainless Steel 1.4404 (V4A)

Approvals:   

Form A (18 mm)



1 Form	18021	
	Type	24 V AC/DC LED and suppression
Circuit diagram		
Contact layout		
2 Cable Type	Wire diameter 0.75 mm²	Jacket Color
	PVC	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;"> <u>7</u> <u>0</u> <u>1</u> <u>4</u> - <u>1</u> <u>8</u> <u>0</u> <u>2</u> <u>1</u> - </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

– Valve Connectors

– Screw, Stainless Steel 1.4404 (V4A)



Form B (10 mm)



Form BI (11 mm)

Industrial standard



1 Form	10021	11021
Type	24 V AC/DC LED and suppression	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

Open ended wires

– Valve Connectors

– Screw, Stainless Steel 1.4404 (V4A)

Approvals: 

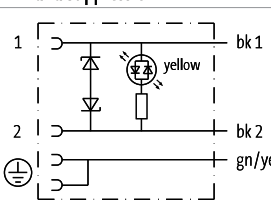
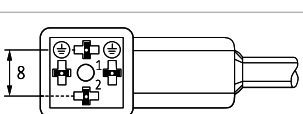
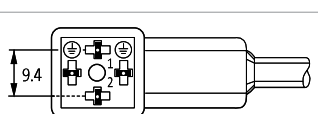
Form C (8 mm)



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: 

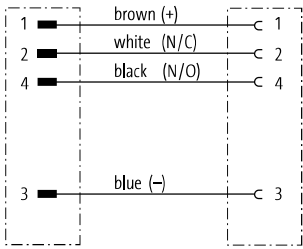
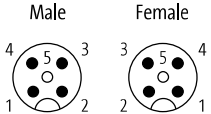
Male
straight

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	Cable Type	Jacket Color
Wire diameter 0.34 mm ² PVC (UL/CSA)		gray 214
3 Cable Length	Cable Length	
0.3 m		0030
0.6 m		0060
1.0 m		0100
1.5 m		0150
2.0 m		0200
Technical Data	Technical Data	
Operating voltage	24 V DC ±25 %	
Protection	IP65, IP67, IP68 inserted and tightened (EN 60529)	
Temperature range	-25...+85 °C	
Article No.	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;"> <u>7</u> <u>0</u> <u>1</u> <u>4</u> - <u>4</u> <u>0</u> <u>3</u> <u>4</u> <u>1</u> - </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

Connection cables

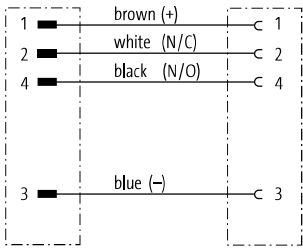
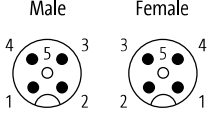
- M12-Steel
- Stainless Steel 1.4404 (V4A)

Male
straight

Female
straight



Approvals:  

1 Form		40021	
Type	4-pole		
Circuit diagram			
Contact layout	<p>Male Female</p> 		
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	<p>7 0 4 4 - 4 0 0 2 1 - - -</p>		
	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;"> <u>7</u> <u>0</u> <u>0</u> <u>4</u> - ----- - <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> <u>0</u> </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

NOTES

A large grid of small dots for taking notes, consisting of 30 columns and 30 rows.

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