

| Round plug connectors Food & Beverage



| M8

| M12

| M12 Steel

| Valve Plug

| 7/8"



Connectors

for the high demands of the
Food & Beverage industry

A CLEAN SOLUTION

Food & Beverage



HIGH DEMANDS OF THE FOOD & BEVERAGE INDUSTRY

The food & beverage industry is extremely demanding for the products and components that are used in association with hygiene, cleanliness and corrosion protection. That's why stainless steel is the main material that is used in food & beverage production systems; it offers important protection and guarantees reliability.

Murrelektronik provides a wide range of connectors that meet the extreme requirements in the food & beverage industry.

All Murrelektronik connectors are based on proven technologies. Metal parts of the connectors designed specifically for the food & beverage industry have been replaced with stainless steel, ensuring the highest corrosion protection. The light color connector covers make it easy to notice dirt and mold. Plugs and cables are made of a plastic material that fulfills all demands of the food & beverage industry.

Murrelektronik recommends the extremely rugged M12 Steel connector for applications with frequent high-pressure wash downs. It has a stainless steel housing, can be washed down with acidic and caustic cleaning agents, and is suitable for a temperature range up to 105° C (220° F). These features make it suitable even for the toughest requirements.

All Murrelektronik connectors for the food & beverage industry are tested according to ECOLAB procedures so they are guaranteed to meet the highest requirements regarding non-leakage and corrosion resistance.

ROUND PLUG CONNECTOR M8

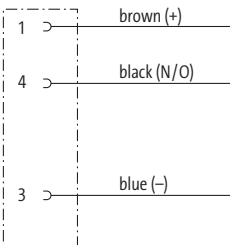
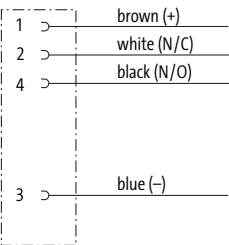
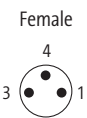
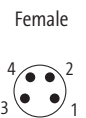
With open ended wires

- V4A nut
- Protection IP65/68

Approvals:  **ECOLAB**

Female
straight



1	Form	No.	08041	08061	
	Configuration		3-pole	4-pole	
	Circuit diagram				
	Contact layout				
2	Cable type	Jacket color			
	Wire diameter 0.25 mm²		gray	gray	
	PVC		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		
	Article no.				
			7 0 1 4 - - - - -	- - - - -	- - - - -
			1 Form	2 Cable type	3 Cable length
	Notes				
					Differing cable lengths on request.

ROUND PLUG CONNECTOR M8

With open ended wires

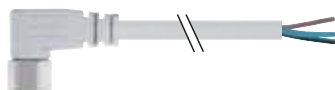
- V4A nut
- Protection IP65/68

Approvals:

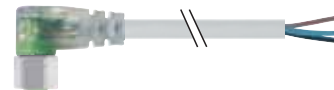


ECOLAB

Female
90°



Female
90°, with LED



1	Form	No.	08081	08101	08121
	Configuration		3-pole	4-pole	3-pole, with 2 x LED (PNP)
	Circuit diagram				<p>(NPN) on request</p>
	Contact layout				
2	Cable type	Jacket color	Jacket color	Jacket color	Jacket color
	Wire diameter 0.25 mm²	gray	gray	gray	gray
	PVC	210	211	210	210
3	Cable length				
	1.5 m	0150			
	3.0 m	0300			
	5.0 m	0500			
	7.5 m	0750			
	10.0 m	1000			
Article no.					
	<div>7 0 1 4 - - - - -</div>				
		1	Form	2	Cable type
		3	Cable length		
Notes					
	Differing cable lengths on request.				

ROUND PLUG CONNECTOR M12

With open ended wires

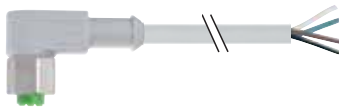
- V4A nut
- Protection IP65/68

Approvals:  **ECOLAB**

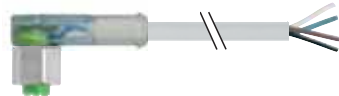
Female
straight

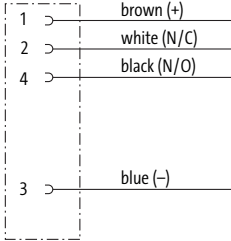
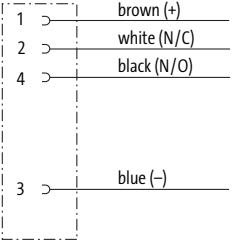
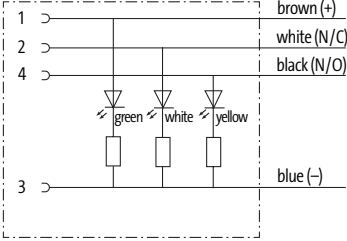
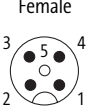
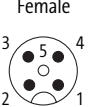
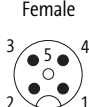


Female
90°



Female
90°, with LED



1	Form	No.	12 2 2 1	12 3 4 1	12 4 2 1
	Configuration		4-pole	4-pole	4-pole with 3 x LED (PNP)
	Circuit diagram				 (NPN) on request
	Contact layout				
2	Cable type	Jacket color	gray 214	gray 214	gray 214
	Wire diameter 0.34 mm² PVC				
3	Cable length		1.5 m 3.0 m 5.0 m 7.5 m 10.0 m	0150 0300 0500 0750 1000	
	Article no.		7 0 1 4 - - - - -		
		1	Form	2	Cable type
		3	Cable length		
	Notes		Differing cable lengths on request.		

ROUND PLUG CONNECTOR M12

With open ended wires

- shielded
- V4A nut
- Protection IP65/68

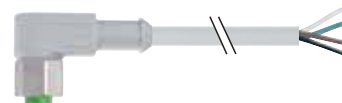
Approvals:



Female
straight



Female
90°



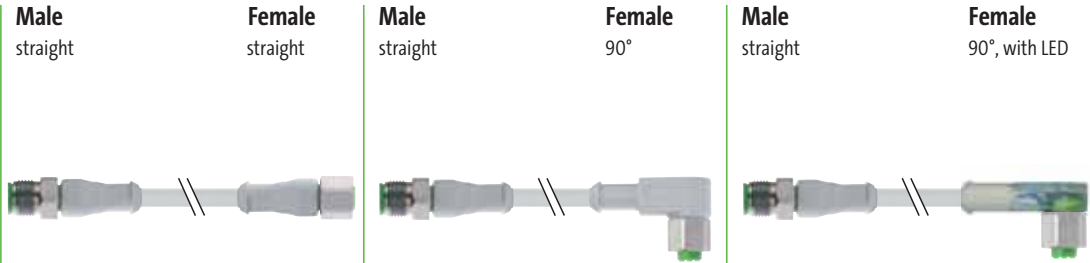
1 Form		No.	13221	13281
Configuration		5-pole		5-pole
Circuit diagram				
Contact layout				
2 Cable type		Jacket color		Jacket color
Wire diameter 0.34 mm ²		gray		gray
PVC		348		348
3 Cable length				
1.5 m		0150		
3.0 m		0300		
5.0 m		0500		
7.5 m		0750		
10.0 m		1000		
Article no.				
		<div>7 0 1 4 - - - - -</div>		
		1 Form	2 Cable type	3 Cable length
Notes		Differing cable lengths on request.		

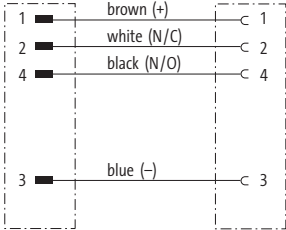
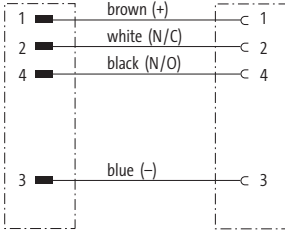
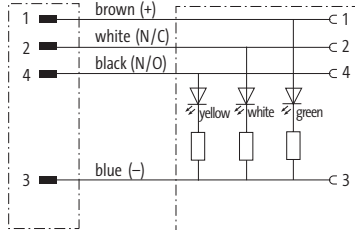
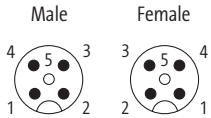
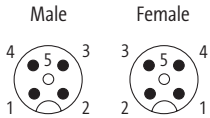
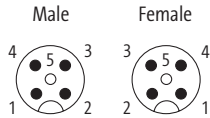
ROUND PLUG CONNECTOR M12

Connection cables

- M12 - M12
- V4A nut/screw
- Protection IP65/68

Approvals:  **ECOLAB**



1	Form	No.	40021	40121	40341
	Configuration		4 pole	4 pole	4 pole with 3 x LED (PNP)
	Circuit diagram				 (NPN) on request
	Contact layout				
2	Cable type	Jacket color			
	Wire diameter 0.34 mm²	gray	gray	gray	gray
	PVC	214	214	214	214
3	Cable length				
	1.5 m	0150			
	3.0 m	0300			
	5.0 m	0500			
	7.5 m	0750			
	10.0 m	1000			
	Article no.				
		7 0 1 4 - - - - -			
		1 Form	2 Cable type	3 Cable length	
	Notes				
		Differing cable lengths on request.			

ROUND PLUG CONNECTOR M12 STEEL

With open ended wires/
Connection cables

- V4A housing
- Protection IP68/69K

Approvals:  **ECOLAB**

With open ended wires
Female
straight

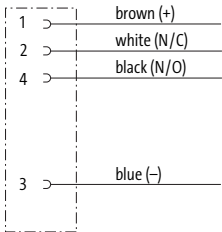
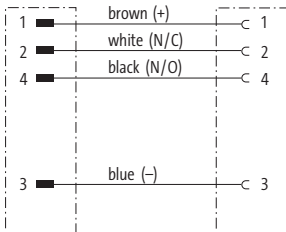

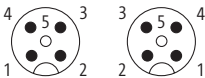


Connection cables (M12 - M12)

Male
straight

Female
straight



1 Form		No.	12221	40021
Configuration		4 pole		4 pole
Circuit diagram				
Contact layout		Female 		Male Female 
2 Cable type		Jacket color		Jacket color
Wire diameter 0.34 mm ²		gray		gray
PVC		214		214
TPE-S		336		336
3 Cable length				
1.5 m		0150		
3.0 m		0300		
5.0 m		0500		
7.5 m		0750		
10.0 m		1000		
Article no.				
		<div>7 0 4 4 - - - - -</div>		
		1 Form	2 Cable type	3 Cable length
Notes		Differing cable lengths on request.		

ROUND PLUG CONNECTOR M12

Field-wireable

- insulation displacement technology
- V2A nut
- Protection IP67

Male
straight



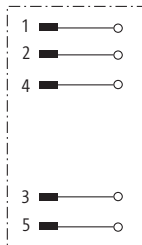
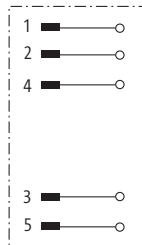
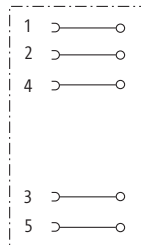
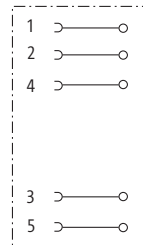

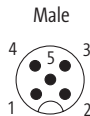
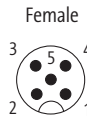
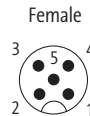
Female
straight



Female
90°



1	Form	No.	12481	12601	12681
	Configuration		4-pole	4-pole	4-pole
	Circuit diagram				
	Wire diameter		0.25...0.5 mm²	0.25...0.5 mm²	0.25...0.5 mm²
	Contact layout		Male 	Female 	Female 
Technical data					
	Supply voltage		max. 32 V		
	Nominal current		max. 3 A		
	Voltage isolation		500 V		
	Conductor diameter		≥ 0.1 mm (acc. to DIN VDE 0812)		
	Outer wire diameter		1.2...1.6 mm		
	Outer cable diameter		4...5.1 mm		
	Wire isolation		PVC, PP, TPE		
	Connection frequency		10		
	Protection		IP67 when plugged and screwed down (EN 60529)		
	Temperature range		-25...+85 °C (-13...+185 °F)		
	Combustibility acc. to UL 94		V0		
Article no.					
			<u>7</u> <u>0</u> <u>0</u> <u>2</u>	- -	

1	Form	No.	12761	12881	12961	13041
	Configuration	5-pole	5-pole	5-pole	5-pole	
	Circuit diagram					
	Clamping range screw thread	6...8 mm	6...8 mm	6...8 mm	6...8 mm	
	Contact layout					
Technical data						
Supply voltage	125 V AC/DC		125 V AC/DC		125 V AC/DC	
Current per contact	max. 4 A					
Wiring method	screw terminals					
Connection diameter	max. 0.75 mm²					
Protection	IP67 when plugged and screwed down (EN 60529)					
Housing material	flame retardant plastic, resistant against standard coding agents and lubricants					
Clamping range screw thread	6...8 mm					
Article no.						
		<div><div>7004</div><div>-</div><div></div><div>-</div><div>000</div><div></div><div>0000</div></div>				
		1 Form				
Notes						

VALVE PLUG

With open ended wires

- V4A connecting screw
- Protection IP65/68/69K

Approvals:  **ECOLAB**

Form A (18 mm)



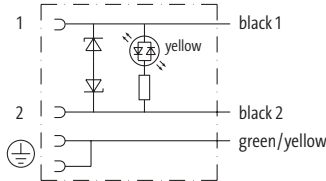
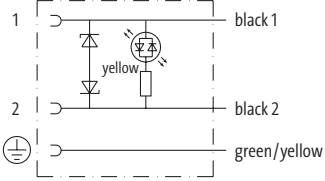
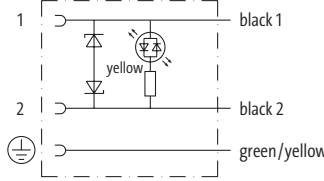
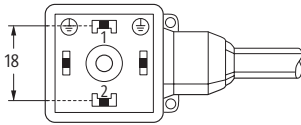
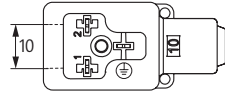
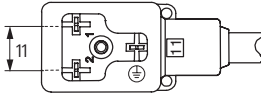
Form B (10 mm)



Form BI (11 mm)

Industrial standard



1 Form		No.	18021	10021	11021	
Configuration		24 V AC/DC with LED and suppression			24 V AC/DC with LED and suppression	
Circuit diagram						
Contact layout						
2 Cable type		Jacket color		Jacket color		
Wire diameter 0.75 mm²		gray		gray		
PVC		216		216		
3 Cable length						
1.5 m		0150				
3.0 m		0300				
5.0 m		0500				
7.5 m		0750				
10.0 m		1000				
Article no.						
		7 0 1 4 - - - - -				
		1 Form		2 Cable type		
				3 Cable length		
Notes		Differing cable lengths on request.				

VALVE PLUG

With open ended wires

- V4A connecting screw
- Protection IP65/68/69K

Approvals:



Form C (8 mm)



Form CI (9,4 mm)

Industrial standard




1	Form	No.	80021	94021
	Configuration	24 V AC/DC with LED and suppression		24 V AC/DC with LED and suppression
	Circuit diagram			
	Contact layout			
2	Cable type	Jacket color		Jacket color
	Wire diameter 0.75 mm ²	gray		gray
	PVC	216		216
3	Cable length			
	1.5 m	0150		
	3.0 m	0300		
	5.0 m	0500		
	7.5 m	0750		
	10.0 m	1000		
Article no.		<div>7 0 1 4 - - - - -</div>		
		1	Form	2 Cable type
		3	Cable length	
Notes		Differing cable lengths on request.		

ROUND PLUG CONNECTOR 7/8"

With open ended wires

- V2A nut
- Protection IP65/68

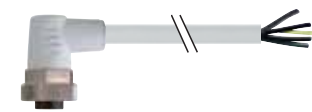
Approvals:



Female
straight



Female
90°



1	Form	No.	78021	78051			
	Configuration	5-pole		5-pole			
		Power cable		Power cable			
	Circuit diagram	<div><div><div>1</div><div>2</div><div>4</div></div><div><div>black (1)</div><div>blue (2)</div><div>brown (3)</div></div></div> <div><div>3</div><div>5</div></div> <div><div>green/yellow (PE)</div><div>white (4)</div></div>		<div><div><div>1</div><div>2</div><div>4</div></div><div><div>black (1)</div><div>blue (2)</div><div>brown (3)</div></div></div> <div><div>3</div><div>5</div></div> <div><div>green/yellow (PE)</div><div>white (4)</div></div>			
Contact layout	<div>Female</div> <div><div><div>3</div><div>2</div><div>4</div><div>1</div><div>5</div></div><div></div></div>		<div>Female</div> <div><div><div>3</div><div>2</div><div>4</div><div>1</div><div>5</div></div><div></div></div>				
2	Cable type	Jacket color		Jacket color			
	Wire diameter 1.5 mm²		gray	gray			
	PUR, suitable for C-tracks (UL/CSA)		961	961			
3	Cable length						
	1.5 m	0150					
	3.0 m	0300					
	5.0 m	0500					
	7.5 m	0750					
	10.0 m	1000					
	Article no.						
		<div><div><div>7</div><div>0</div><div>1</div><div>2</div></div><div>-</div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div>-</div><div><div></div><div></div><div></div><div></div></div><div></div><div><div></div><div></div><div></div><div></div></div></div>					
		1	Form	2	Cable type	3	Cable length
	Notes	Differing cable lengths on request.					

ROUND PLUG CONNECTOR 7/8"

Field-wireable

- insulation displacement technology
- V2A nut
- Protection IP67

Female
straight



1 Form		No. 78211	
Configuration	5-pole		
Circuit diagram	<div><div>1</div><div>2</div><div>4</div><div>3</div><div>5</div></div>		
Wire diameter	0.75...1.5 mm²		
Contact layout	<div><div>Female</div><div><div>3</div><div>2</div><div>4</div><div>1</div><div>5</div></div></div>		
Technical data			
Supply voltage	230/400 V AC/DC		
Nominal current	max. 10 A		
Conductor diameter	≥ 0.15 mm (acc. to DIN VDE 0812)		
Outer wire diameter	≤ 2.8 mm		
Outer cable diameter	6.8...12.5 mm		
Wire isolation	PVC, PP, TPE		
Connection frequency	10		
Protection	IP67 when plugged and screwed down (EN 60529)		
Temperature range	-25...+85 °C (-13...+185 °F)		
Article no.			
	<div><div><div>7</div><div>0</div><div>0</div><div>2</div></div><div>-</div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div>-</div><div><div>0</div><div>0</div><div>0</div></div><div><div>0</div><div>0</div><div>0</div><div>0</div></div></div>		
	1 Form		
Notes			



Murrelektronik GmbH | Falkenstraße 3, D-71570 Oppenweiler | P.O. Box 1165, D-71567 Oppenweiler
Phone +49 7191 47-0 | Fax +49 7191 47-130 | info@murrelektronik.com | www.murrelektronik.com



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