

Bemak

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1

ELECTRONICS IN THE
CONTROL CABINET

2

INTERFACES

3

CONNECTION
TECHNOLOGY

4

I/O SYSTEMS

M8 Round Plug Connectors

3.1

M12 Round Plug Connectors

3.2

T-couplers M8, M12, 7/8"

3.3

Flange Connectors

3.4

MQ12 Round Plug Connectors

3.5

Fieldbus Connectors

3.6

Plug Connectors for Food & Beverage

3.7

M23 Round Plug Connectors

3.8

7/8" Round Plug Connectors

3.9

Valve Connectors

3.10

Technical Data

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Our concept for your individual application solutions.
Our connector range is a modular system that you can customize for your application.

The article number consists of three blocks: form, jacket material/color and cable length.



Block 1:	Form	1	2	4	0	1	M12 female 90° with LED, 4-pole
Block 2:	Jacket material/color	0	3	3			PUR (UL/CSA), yellow
Block 3:	Cable length	0	3	0	0		3 m

The resulting part number is how you will order your connector.

7 0 0 0 - 1 2 4 0 1 - 0 3 3 0 3 0 0

INTERNATIONAL APPROVALS FOR FLEXIBLE USE WORLDWIDE



DID YOU KNOW?

Every Murrelektronik connector is 100% tested.

This means:

- Electrically tested
- High voltage tested
- Performance tested
- Pin assignment tested
- Short circuit tested
- Visually controlled

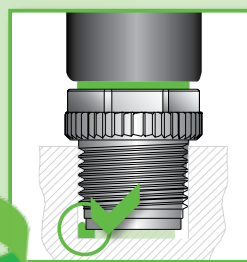
YOUR BENEFITS

- **Modular connector program**
 - Find your connector quickly
- **International approvals**
 - Products approved for your market
- **Guaranteed quality**
 - 100% tested
 - All contacts gold-plated
 - High IP67 protection as standard
 - Shock and vibration resistant
- **Worldwide and industry wide**
 - Benefit from our expertise and our cross-industry expertise



AUDIBLY SEALED – SIMPLE AND SAFE

Our torque wrench connects Murrelektronik M8-, M12-, 7/8" and M23 connectors simply and tightly, leaving no room for error.



M8	0.4 Nm
M12	0.6 Nm
7/8"	1.5 Nm
M23	2.0 Nm

Just turn until
you hear the
click.

No more
sore fingers!

STANDARD CABLE TYPES FOR YOUR APPLICATION



WIDE RANGE MEETS YOUR REQUIREMENTS

- **4 standard cable types for your application solution**
 - Always the right cable
- **3 cable colors (yellow, gray and black)**
 - The color you need for your industry
- **Meets the highest quality requirements**
 - Certified, application approved and successfully tested with many aggressive media (oil and lubricants)



Cable Types		PVC	PUR/PVC	PUR	PUR Welding Spark Resistant
Cable Standard		★	★★	★★★	★★★★★
Properties*	Flame retardant	■	■	■	■
	Resistant to chemicals	■	■	■	■
	Resistant to cleaning agents (Ecolab)	■			
	Resistant to oil and lubricants		■	■	■
	Suitable for use in C-tracks**		2 million	5 million	10 million
	Suitable for robotic applications			±180°	±360°
	Welding spark resistant				■
	UV resistant			■	■
	Halogen-free			■	■
	Varying temperatures	-5 to +80 °C	-5 to +80 °C	-25 to +80 °C	-25 to +90 °C
	UL/CSA approvals	■		■	■
	Compliant with NFPA 79 Edition 2012	■		■	
Application Examples		Packaging machines Food & Beverage Assembly lines Production lines	Packaging machines Handling machines Assembly lines Production lines	Machine tools Swivel tables Metal cutting	Machine tools Industrial robots Metal cutting High performance C-tracks

* The properties of some cable types may differ from this data.

** Max. 3.3 m/s at 5 m horizontal travel distance and max. acceleration of 5 m/s².

NOTES



M8 ROUND PLUG CONNECTORS

SMALL, LIGHT, MEETS YOUR NEEDS

- Extensive selection
- Tested technology
- Modern design

M8 REDESIGN – MORE MODELS, & NEW DESIGN

M8's redesign introduces new innovations. We completely redesigned all Murrelektronik's molded M8 connectors. They now have a new look and have been upgraded. We also significantly expanded our range of shielded M8 connectors.

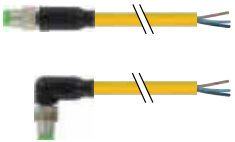
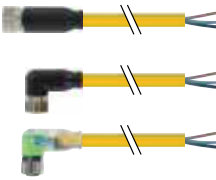
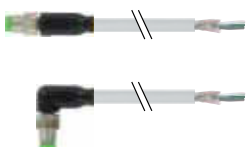
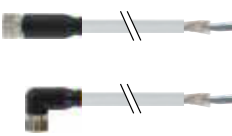
Features:

- Durable PUR molding
- Gold plated contacts
- Small dimensions and improved feel
- Corrugated tubing connection
- Hex screw with thread (SW9)

Huge Variety:

- Male/female, straight/90°, 3-pole/4-pole
- Shielded and unshielded connectors
- 3 standard colors, 4 standard cable types
- Cables, open ended wires, T-couplers, adapters, models with LED

With Open Ended Wires

 M8 male • Straight • 90° <i>Page 3.1.1</i>	 M8 female • Straight • 90° • 90° with LED <i>Page 3.1.3</i>
 M8 male (shielded) • Straight • 90° <i>Page 3.1.6</i>	 M8 female (shielded) • Straight • 90° <i>Page 3.1.8</i>

Connection Cables

		M8 male • Straight	M8 female • Straight • 90° • 90° with LED
		M8 male • Straight • 90°	M12 female • Straight • 90° • 90° with LED

Page 3.1.10

Page 3.1.13

Field-Wireable

	Insulation Displacement Technology 0.25...0.5 mm ²	M8 male/female • Straight
	Insulation Displacement Technology 0.14...0.34 mm ²	M8 male/female • Straight
	Solder pins	M8 male/female • Straight • 90°
	Screw Terminals	M8 male/female • Straight
	Screw terminals (shielded)	M8 male/female • Straight

Page 3.1.15

Page 3.1.16

Page 3.1.17

Page 3.1.19

Page 3.1.20

NOTES

Grid of dots for notes.

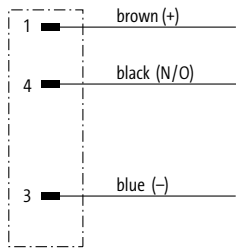
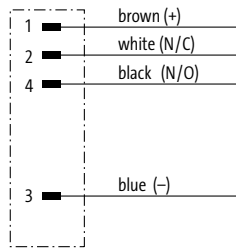
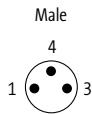
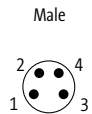
M8 ROUND PLUG CONNECTORS

Open ended wires

Male
straight



Approvals:   
* only for products with UL/CSA approved cable

1	Form	08001			me x			08011			me x			
	Type	3-pole							4-pole					
	Circuit diagram													
Contact layout														
2	Cable Type	Jacket Color							Jacket Color					
	Wire diameter 0.25 mm²	yellow	gray	black	yellow	gray	black	yellow	gray	black				
	PVC (UL/CSA)	010	210	610	011	211	611	011	211	611				
	PUR/PVC	020	220	620	021	221	621	021	221	621				
	PUR (UL/CSA)	030	230	630	031	231	631	031	231	631				
	PUR (UL/CSA), welding spark res.	050	250	650	051	251	651	051	251	651				
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 and IP67 when plugged and screwed down (EN 60529)												
Temperature range		-25...+85 °C, depending on cable quality												
Article No.														
The composition of your article number is explained on page 3.1.i		7000 - -												
		1			Form		2		Cable Type		3		Cable Length	
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.												

M8 ROUND PLUG CONNECTORS

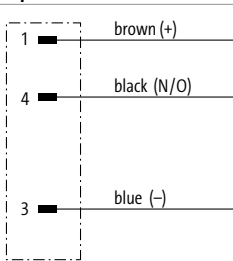
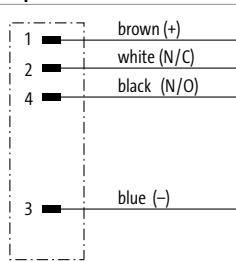
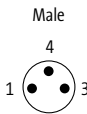
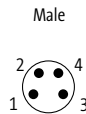
Open ended wires

Male

90°



Approvals:    * only for products with UL/CSA approved cable

1	Form	08021			08031		
	Type	3-pole			4-pole		
	Circuit diagram						
2	Contact layout						
	Cable Type	Jacket Color			Jacket Color		
	Wire diameter 0.25 mm²	yellow	gray	black	yellow	gray	black
	PVC (UL/CSA)	010	210	610	011	211	611
	PUR/PVC	020	220	620	021	221	621
	PUR (UL/CSA)	030	230	630	031	231	631
	PUR (UL/CSA), welding spark res.	050	250	650	051	251	651
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 and IP67 when plugged and screwed down (EN 60529)					
	Temperature range	-25...+85 °C, depending on cable quality					
Article No.							
The composition of your article number is explained on page 3.1.i		7 0 0 0 - -					
		1 Form		2 Cable Type		3 Cable Length	
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.					

M8 ROUND PLUG CONNECTORS

Open ended wires

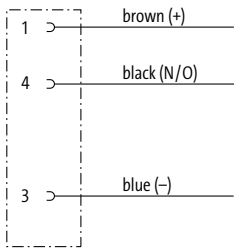
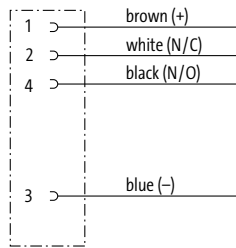
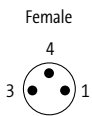
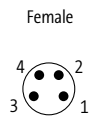
Female

straight



Approvals:   

* only for products with UL/CSA approved cable

1	Form	08041	me	08061	me		
	Type	3-pole			4-pole		
	Circuit diagram						
	Contact layout						
2	Cable Type	Jacket Color			Jacket Color		
	Wire diameter 0.25 mm²	yellow	gray	black	yellow	gray	black
	PVC (UL/CSA)	010	210	610	021	211	611
	PUR/PVC	020	220	620	031	221	621
	PUR (UL/CSA)	030	230	630	041	231	631
	PUR (UL/CSA), welding spark res.	050	250	650	051	251	651
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 and IP67 when plugged and screwed down (EN 60529)					
Temperature range		-25...+85 °C, depending on cable quality					
Article No.							
The composition of your article number is explained on page 3.1.i		7 0 0 0			— — — —		
		— — — —			— — — —		
		1 Form		2 Cable Type		3 Cable Length	
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.					

M8 ROUND PLUG CONNECTORS

Open ended wires

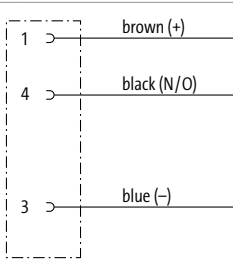
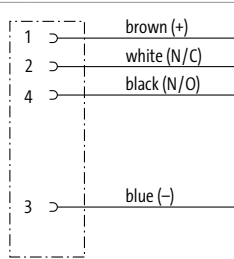
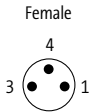
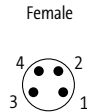
Female

90°



Approvals:   

* only for products with UL/CSA approved cable

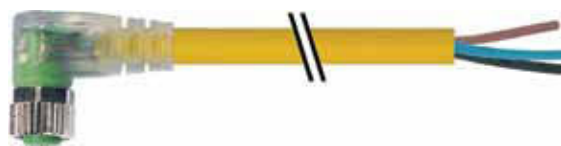
1	Form	08081			me×			08101			me×				
	Type	3-pole						4-pole							
	Circuit diagram														
	Contact layout														
2	Cable Type	Jacket Color						Jacket Color							
	Wire diameter 0.25 mm²	yellow	gray	black	yellow	gray	black	yellow	gray	black	yellow	gray	black		
	PVC (UL/CSA)	010	210	610	011	211	611	010	210	610	011	211	611		
	PUR/PVC	020	220	620	021	221	621	020	220	620	021	221	621		
	PUR (UL/CSA)	030	230	630	031	231	631	030	230	630	031	231	631		
	PUR (UL/CSA), welding spark res.	050	250	650	051	251	651	050	250	650	051	251	651		
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 and IP67 when plugged and screwed down (EN 60529)													
Temperature range		-25...+85 °C, depending on cable quality													
Article No.															
The composition of your article number is explained on page 3.1.i		7 0 0 0 - -													
				1		Form		2		Cable Type		3		Cable Length	
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.													

M8 ROUND PLUG CONNECTORS

Open ended wires

Female

90°


 Approvals:   

 * only for products with UL/CSA approved cable

1 Form		08121			mex	
Type		3-pole with 2 × LED (PNP) (NPN) on request				
Circuit diagram						
Contact layout						
2 Cable Type		Jacket Color				
Wire diameter 0.25 mm²		yellow	gray	black		
PVC (UL/CSA)		010	210	610		
PUR/PVC		020	220	620		
PUR (UL/CSA)		030	230	630		
PUR (UL/CSA), welding spark res.		050	250	650		
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 and IP67 when plugged and screwed down (EN 60529)				
Temperature range		-25...+85 °C, depending on cable quality				
Article No.						
The composition of your article number is explained on page 3.1.i		7 0 0 0 - 0 8 1 2 1 -				
		1 Form		2 Cable Type		3 Cable Length
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.				

M8 ROUND PLUG CONNECTORS

Open ended wires

– shielded

Approvals:   

Male

straight



1 Form

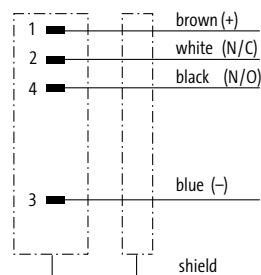
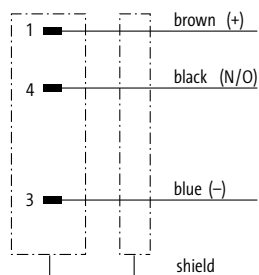
08701

08711

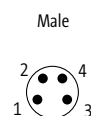
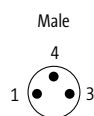
Type
Circuit diagram

3-pole

4-pole



Contact layout



2 Cable Type

Jacket Color

Jacket Color

Wire diameter 0.34 mm²

PVC (UL/CSA)

PUR (UL/CSA)

gray	black
200	600
240	640

gray	black
201	601
241	641

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
Protection	IP65 and IP67 when plugged and screwed down (EN 60529)
Temperature range	-25...+85 °C, depending on cable quality

max. 30 V AC/DC

Article No.

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

7 0 0 0

-

-

1 Form

2 Cable Type

3 Cable Length

Notes

Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.

M8 ROUND PLUG CONNECTORS

Open ended wires

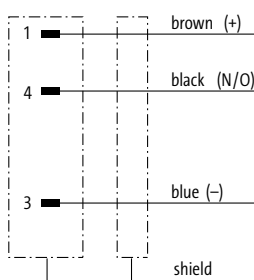
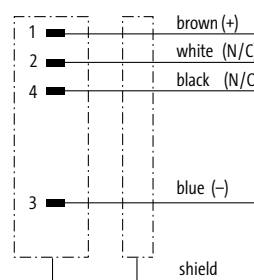
– shielded

Approvals: 

Male

90°



1 Form		08721	08731
Type		3-pole	4-pole
Circuit diagram			
Contact layout		Male 	Male 
2 Cable Type		Jacket Color	
Wire diameter 0.34 mm²		gray	black
PVC (UL/CSA)		200	600
PUR (UL/CSA)		240	640
3 Cable Length		Jacket Color	
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 and IP67 when plugged and screwed down (EN 60529)	
Temperature range		-25...+85 °C, depending on cable quality	
Article No.			
The composition of your article number is explained on page 3.1.i		7 0 0 0	– – – – –
		1 Form	2 Cable Type 3 Cable Length
Notes			
		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.	

M8 ROUND PLUG CONNECTORS

Open ended wires

– shielded

Female

straight



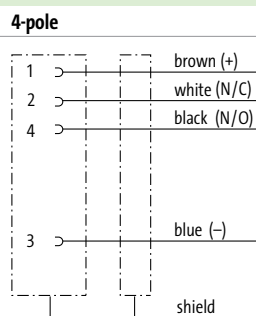
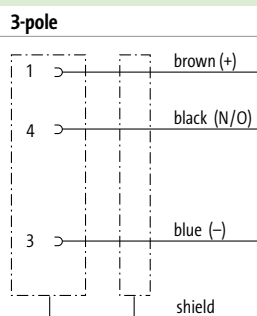
Approvals: 

1 Form

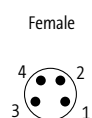
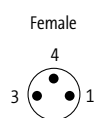
08741

08761

Type
Circuit diagram



Contact layout



2 Cable Type

Jacket Color

Jacket Color

Wire diameter 0.34 mm²
PVC (UL/CSA)
PUR (UL/CSA)

	gray	black
200		600
240		640

	gray	black
201		601
241		641

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 and IP67 when plugged and screwed down (EN 60529)	
Temperature range	-25...+85 °C, depending on cable quality	

Article No.

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

7 0 0 0

– — — — —

– — — — —

– — — — —

1 Form

2 Cable Type

3 Cable Length

Notes

Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.

M8 ROUND PLUG CONNECTORS

Open ended wires

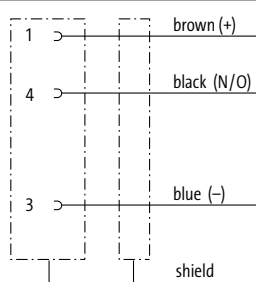
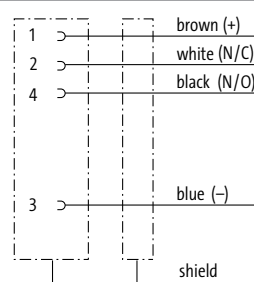
– shielded

Approvals: 

Female

90°



1 Form		08781	08801
Type		3-pole	4-pole
Circuit diagram			
Contact layout		Female 	Female 
2 Cable Type		Jacket Color	
Wire diameter 0.34 mm²		gray	black
PVC (UL/CSA)		200	600
PUR (UL/CSA)		240	640
3 Cable Length		Jacket Color	
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 and IP67 when plugged and screwed down (EN 60529)	
Temperature range		-25...+85 °C, depending on cable quality	
Article No.			
The composition of your article number is explained on page 3.1.i		7 0 0 0	– – – – –
		1 Form	2 Cable Type 3 Cable Length
Notes			
		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.	

M8 ROUND PLUG CONNECTORS

Connection cables

– M8 - M8

Approvals:   
 * only for products with UL/CSA approved cable

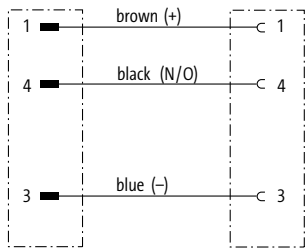
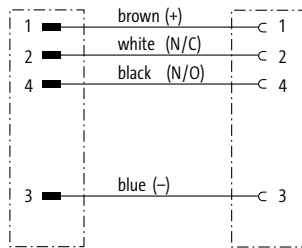
Male

straight

Female

straight



1	Form	88001			mex			88011			
	Type	3-pole							4-pole		
	Circuit diagram										
Contact layout		Male  Female 							Male  Female 		
2	Cable Type	Jacket Color							Jacket Color		
	Wire diameter 0.25 mm²	yellow	gray	black	yellow	gray	black	yellow	gray	black	
	PVC (UL/CSA)	010	210	610	011	211	611	011	211	611	
	PUR/PVC	020	220	620	021	221	621	021	221	621	
	PUR (UL/CSA)	030	230	630	031	231	631	031	231	631	
	PUR (UL/CSA), welding spark res.	050	250	650	051	251	651	051	251	651	
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. 60 V AC/DC							max. 30 V AC/DC		
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)									
Temperature range		-25...+85 °C, depending on cable quality									
Article No.											
The composition of your article number is explained on page 3.1.i		7000 - -									
		1 Form			2 Cable Type			3 Cable Length			
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.									

M8 ROUND PLUG CONNECTORS

Connection cables

– M8 - M8

Male

straight

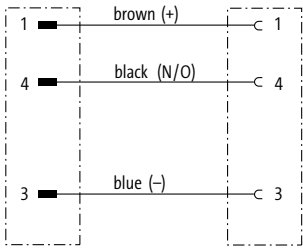
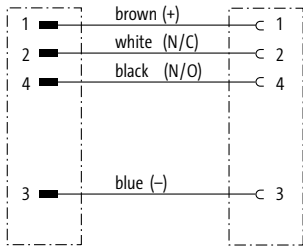
Female

90°



Approvals:   

* only for products with UL/CSA approved cable

1 Form		88021	me	88031
Type		3-pole		4-pole
Circuit diagram				
Contact layout		Male  Female 		Male  Female 
2 Cable Type		Jacket Color		
Wire diameter 0.25 mm²		yellow	gray	black
PVC (UL/CSA)		010	210	610
PUR/PVC		020	220	620
PUR (UL/CSA)		030	230	630
PUR (UL/CSA), welding spark res.		050	250	650
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. 60 V AC/DC		max. 30 V AC/DC
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)		
Temperature range		-25...+85 °C, depending on cable quality		
Article No.				
The composition of your article number is explained on page 3.1.i		7 0 0 0	-	-
		1 Form	2 Cable Type	3 Cable Length
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.		

M8 ROUND PLUG CONNECTORS

Connection cables

– M8 - M8

Approvals:   
 * only for products with UL/CSA approved cable

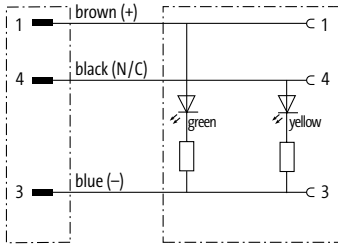
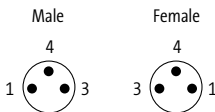
Male

straight

Female

90°



1	Form	88041			me	
	Type	3-pole with 2 × LED (PNP) (NPN) on request				
	Circuit diagram					
	Contact layout	Male Female 				
2	Cable Type	Jacket Color				
	Wire diameter 0.25 mm²	yellow	gray	black		
	PVC (UL/CSA)	010	210	610		
	PUR/PVC	020	220	620		
	PUR (UL/CSA)	030	230	630		
	PUR (UL/CSA), welding spark res.	050	250	650		
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 and IP67 when plugged and screwed down (EN 60529)				
	Temperature range	-25...+85 °C, depending on cable quality				
	Article No.					
	The composition of your article number is explained on page 3.1.i	7000 - 88041 - --- ---				
		1 Form		2 Cable Type		3 Cable Length
	Notes	Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.				

M8 ROUND PLUG CONNECTORS

Connection cables

– M8 - M12

Male

straight

Female

straight



Approvals:   

* only for products with UL/CSA approved cable

1 Form		88241		me x		88251		me x	
Type		3-pole				4-pole			
Circuit diagram									
Contact layout									
2 Cable Type		Jacket Color				Jacket Color			
Wire diameter 0.25 mm²		yellow	gray	black	yellow	gray	black		
PVC (UL/CSA)		010	210	610	011	211	611		
PUR/PVC		020	220	620	021	221	621		
PUR (UL/CSA)		030	230	630	031	231	631		
PUR (UL/CSA), welding spark res.		050	250	650	051	251	651		
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. 60 V AC/DC				max. 30 V AC/DC			
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)							
Temperature range		-25...+85 °C, depending on cable quality							
Article No.									
The composition of your article number is explained on page 3.1.i		7000 - -							
		1 Form		2 Cable Type		3 Cable Length			
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.							

M8 ROUND PLUG CONNECTORS

Connection cables

– M8 - M12

Approvals:   
 * only for products with UL/CSA approved cable

Male

straight



Female

90°

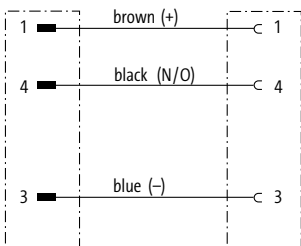
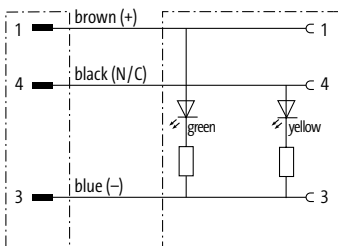
Male

straight



Female

90° with LED

1 Form		88261			meX			88281		
Type		3-pole						3-pole with 2 × LED (PNP) (NPN) on request		
Circuit diagram										
Contact layout		Male  Female 								
2 Cable Type		Jacket Color						Jacket Color		
Wire diameter 0.25 mm²		yellow	gray	black	yellow	gray	black	yellow	gray	black
PVC (UL/CSA)		010	210	610	010	210	610	010	210	610
PUR/PVC		020	220	620	020	220	620	020	220	620
PUR (UL/CSA)		030	230	630	030	230	630	030	230	630
PUR (UL/CSA), welding spark res.		050	250	650	050	250	650	050	250	650
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. 60 V AC/DC						24 V DC ±25 %		
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)								
Temperature range		-25...+85 °C, depending on cable quality								
Article No.										
The composition of your article number is explained on page 3.1.i		7 0 0 0			— — — — —			— — — — —		
		1 Form			2 Cable Type			3 Cable Length		
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.								

M8 ROUND PLUG CONNECTORS

Field-wireable

– Insulation displacement technology

Approvals:

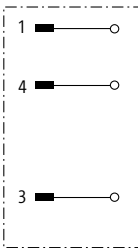
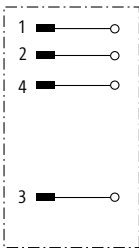
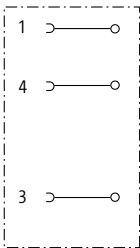
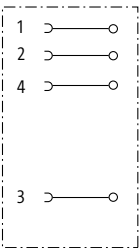
Male
straight



Female
straight



M8 Round Plug Connectors

1	Form	08321 me	08341 me	08361 me	08381 me
Type	3-pole	4-pole	3-pole	4-pole	
Circuit diagram					
Connection cross section	0.25...0.5 mm²				
Contact layout	Male 	Male 	Female 	Female 	
Technical Data					
Operating voltage	max. 32 V AC/DC				
Operating current per contact	max. 4 A				
Connection cross section	0.25...0.5 mm² (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				
Protection	IP65 and IP67 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 0 0		0 0 0		0 0 0 0
	1 Form				
Notes	Other versions on request.				

M8 ROUND PLUG CONNECTORS

Field-wireable

– Insulation displacement technology

Approvals:  

Male

straight



Female

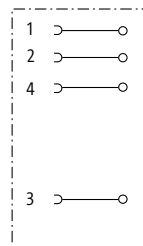
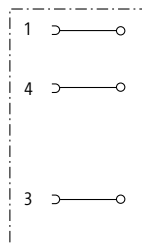
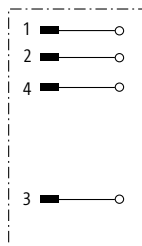
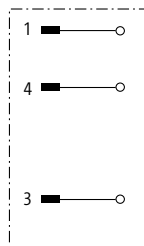
straight



1 Form

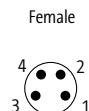
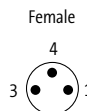
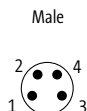
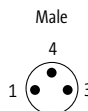
Type	08331 me×	08351 me×	08371 me×	08391 me×
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Circuit diagram	3-pole	4-pole	3-pole	4-pole
-----------------	--------	--------	--------	--------



Connection cross section	0.14...0.34 mm ²			
--------------------------	-----------------------------	--	--	--

Contact layout	Male	Male	Female	Female
----------------	------	------	--------	--------



Technical Data

Operating voltage	max. 32 V AC/DC
Operating current per contact	max. 4 A
Connection cross section	0.14...0.34 mm ² (conductor diameter min. 0.1 mm)
Sealing range (cable diameter)	2.5...5.1 mm (gasket included)
Wire isolation	PVC, PP, TPE
Outer wire diameter	1.0...1.6 mm
Protection	IP65 and IP67 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 0 0

- - - - -

0 0 0

0 0 0 0

1 Form

Notes

Other versions on request.

M8 ROUND PLUG CONNECTORS

Field-wireable

– Solder pins

Male

straight



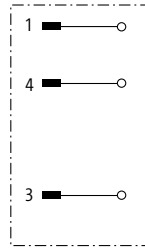
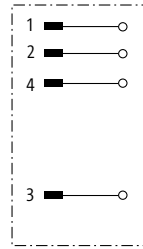
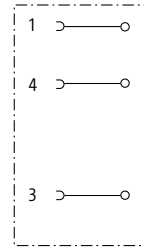
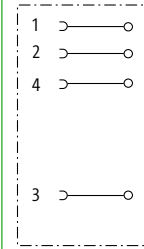
Female

straight



Approvals: 

M8 Round Plug Connectors

1 Form	08401	08421	08481	08501
Type	3-pole	4-pole	3-pole	4-pole
Circuit diagram				
Connection cross section	max. 0.25 mm ²			
Contact layout	Male 	Male 	Female 	Female 
Technical Data				
Operating voltage	max. 60 V AC/DC	max. 30 V AC/DC	max. 60 V AC/DC	max. 30 V AC/DC
Operating current per contact	max. 4 A			
Connection cross section	max. 0.25 mm ²			
Sealing range (cable diameter)	3.5...5.0 mm			
Protection	IP65 and IP67 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 0 0 - 0 0 0 - 0 0 0 0			
	1 Form			
Notes	Other versions on request.			

M8 ROUND PLUG CONNECTORS

Field-wireable

– Solder pins

Approvals: 

Male

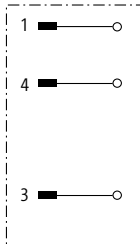
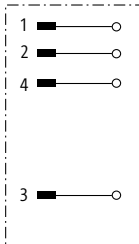
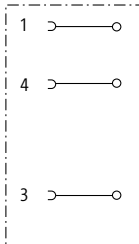
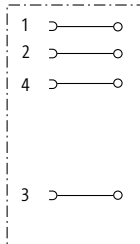
90°



Female

90°



1	Form	08441	08461	08521	08541
Type		3-pole	4-pole	3-pole	4-pole
Circuit diagram					
Connection cross section	max. 0.25 mm²				
Contact layout		Male 	Male 	Female 	Female 
Technical Data					
Operating voltage	max. 60 V AC/DC		max. 30 V AC/DC	max. 60 V AC/DC	max. 30 V AC/DC
Operating current per contact	max. 4 A				
Connection cross section	max. 0.25 mm²				
Sealing range (cable diameter)	3.5...5.0 mm				
Protection	IP65 and IP67 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 0 0 - - 0 0 0 0 0 0 0				
	1 Form				

Notes

Other versions on request.

M8 ROUND PLUG CONNECTORS

Field-wireable

– Screw terminals

Male

straight



Female

straight



Approvals:

1	Form	08601	08611	08621	08631
Type		3-pole	4-pole	3-pole	4-pole
Circuit diagram					
Connection cross section	0.14... 0.5 mm²				
Contact layout		Male 	Male 	Female 	Female
Technical Data					
Operating voltage	max. 60 V AC/DC		max. 30 V AC/DC		max. 60 V AC/DC
Operating current per contact	max. 4 A				
Connection cross section	0.14... 0.5 mm²				
Sealing range (cable diameter)	2.5...5.0 mm				
Protection	IP65 and IP67 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 0 0		0 0 0		0 0 0 0
	1 Form				
Notes					
Other versions on request.					

M8 ROUND PLUG CONNECTORS

Field-wireable

– Screw terminals

– shielded

Approvals: 

Male

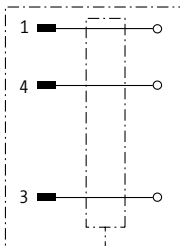
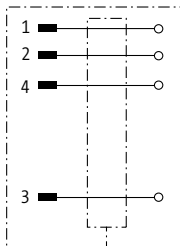
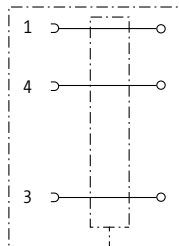
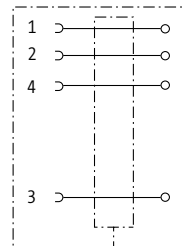
straight



Female

straight



1	Form	08641	08651	08661	08671
Type		3-pole	4-pole	3-pole	4-pole
Circuit diagram					
Connection cross section		0.14... 0.5 mm²			
Contact layout		Male 	Male 	Female 	Female 
Technical Data					
Operating voltage		max. 60 V AC/DC	max. 30 V AC/DC	max. 60 V AC/DC	max. 30 V AC/DC
Operating current per contact		max. 4 A			
Connection cross section		0.14... 0.5 mm²			
Sealing range (cable diameter)		3.5...5.5 mm			
Protection		IP65 and IP67 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 0 0 - - 0 0 0 0 0 0 0			
		1 Form			

Notes

Other versions on request.

M8 ROUND PLUG CONNECTORS

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) for ACS label plates (4 × 18 mm)	Cable diameter (4.2...5.6 mm) Cable diameter (5...7 mm)	7000-99005-0000000 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
End fitting accessories			Art-No.
	Tube adapter snap-in for corrugated tube (size 13mm)	Cable diameter (4...7 mm)	7000-99081-0000000
Connection accessories			Art-No.
	Flange M8 male, pre-wired 0.2 m 3-pole		7000-08551-9700020
	4-pole		7000-08561-9710020
	Flange M8 female, pre-wired 0.2 m 3-pole		7000-08571-9700020
	4-pole		7000-08581-9710020



M12 ROUND PLUG CONNECTORS COMPREHENSIVE AND VERSATILE

- The right model for any application
- Shock and vibration resistant with integrated fastening
- Reliable – 100 % tested

M12 CONNECTORS – DESIGNED FOR MANY DIFFERENT CUSTOMER APPLICATIONS

Murrelektronik offers one of the most comprehensive M12 connector ranges on the market.

Reliable, quick and easy assembly, a clear LED indicator: these are only a few of the features that make this product range one of the best.

Features

- Combined hex screw with thread for secure connections
- Highly resistant, halogen-free PUR molding guarantees IP67/68 seal
- Wide range of cable material and color – always the right choice for your application

With Open Ended Wires



M12 male

- Straight
- 90°

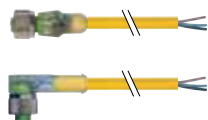
Page 3.2.1



M12 female

- Straight
- 90°

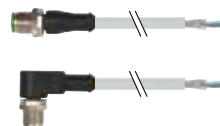
Page 3.2.7



M12 female with LED

- Straight
- 90°

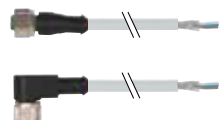
Page 3.2.13



M12 male (shielded)

- Straight
- 90°

Page 3.2.16



M12 female (shielded)

- Straight
- 90°

Page 3.2.22

Connection Cables

			M12 male • Straight • 90°	M12 female • Straight • 90° • 90° with LED	Page 3.2.28
			M12 Y connector male • Straight	M12 female • Straight • 90° • 90° with LED	Page 3.2.34
			M12 male (shielded) • Straight acc. to DESINA®	M12 female (shielded) • Straight acc. to DESINA®	Page 3.2.37
			M12 male • Straight	M8 female • Straight • 90° • 90° with LED	Page 3.2.39
			M12 Y connector male • Straight	M8 female • Straight • 90° • 90° with LED	Page 3.2.41

Field-Wireable

	Insulation Displacement Technology	M12 male/female • Straight • 90° M12 female • 90° with LED	Page 3.2.43
	Screw Terminals	M12 male/female • Straight • 90°	Page 3.2.49
	Screw Terminals (shielded)	M12 male/female • Straight • 90°	Page 3.2.56

NOTES

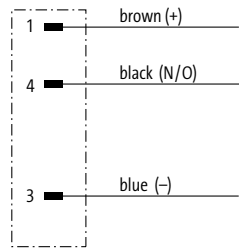
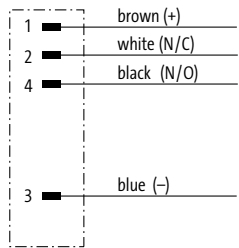
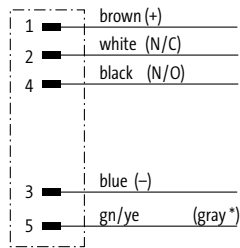
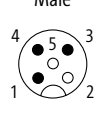
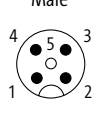
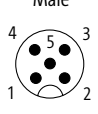
M12 ROUND PLUG CONNECTORS

Open ended wires

Male
straight


Approvals:   

* only for products with UL/CSA approved cable

1	Form	12001	me			12021	me			12041	me		
	Type	3-pole			4-pole			5-pole					
	Circuit diagram							 (* for cable type 126 and 732)					
	Contact layout												
2	Cable Type	Jacket Color			Jacket Color			Jacket Color					
	Wire diameter 0.34 mm²	yellow	gray	black	yellow	gray	black	yellow	gray	black			
	PVC (UL/CSA)	013	213	613	014	214	614	015	215	615			
	PUR/PVC	023	223	623	024	224	624	025	225	625			
	PUR (UL/CSA)	033	233	633	034	234	634	035 (126)	235	635 (732)			
	PUR (UL/CSA), welding spark res.	053	253	653	054	254	654	055	255	655			
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. 250 V AC/DC						max. 125 V AC/DC					
	Protection	IP65 and IP67 when plugged and screwed down (EN 60529)											
	Temperature range	-25...+85 °C, depending on cable quality											
Article No.													
	The composition of your article number is explained on page 3.1.i	7000 - -											
		7005 M12 Lite (plastic hexagonal screw) on request											
		1 Form			2 Cable Type			3 Cable Length					
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.											

M12 ROUND PLUG CONNECTORS

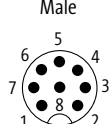
Open ended wires

Male

straight



Approvals:    ^{*}
* only for products with UL/CSA approved cable

1 Form		17001	17001
Type		8-pole	8-pole
Circuit diagram		1 2 3 4 5 6 7 8 white brown green yellow gray pink blue red	1 2 3 4 5 6 7 8 brown white blue black gray pink violet orange
Contact layout		Male 	
2 Cable Type		Jacket Color	Jacket Color
Wire diameter 0.25 mm ²		gray	gray
PUR		292	
PUR (UL/CSA)			295
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. 30 V AC/DC	
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)	
Temperature range		-25...+85 °C, depending on cable quality	
Article No.			
The composition of your article number is explained on page 3.1.i		7 0 0 0	
		7 0 0 5	M12 Lite (plastic hexagonal screw) on request
		1 Form	2 Cable Type
			3 Cable Length

Notes

Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.

M12 ROUND PLUG CONNECTORS

Open ended wires

Male

straight



Approvals: 

1 Form		19001	
Type	12-pole		
Circuit diagram	1 2 3 4 5 6 7 8 9 10 11 12 brown blue white green pink yellow black gray red violet gray/pink red/blue		
Contact layout	Male 1 2 3 4 5 6 7 8 9 10 11 12		
2 Cable Type		Jacket Color	
Wire diameter 0.25 mm²		gray	black
PUR (UL/CSA)		301	
Wire diameter 0.14 mm²			
PVC			702
PUR (UL/CSA)			705
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. 30 V AC/DC		
Protection	IP65 and IP67 when plugged and screwed down (EN 60529)		
Temperature range	-25...+85 °C, depending on cable quality		
Article No.			
The composition of your article number is explained on page 3.1.i	7 0 0 0 - 1 9 0 0 1 - 7 0 0 5 M12 Lite (plastic hexagonal screw) on request		
	1 Form	2 Cable Type	3 Cable Length
Notes	Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.		

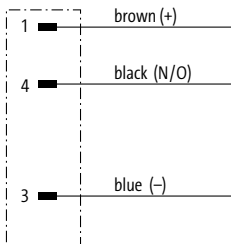
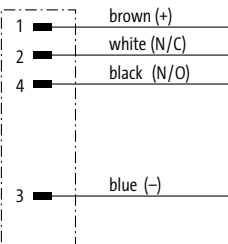
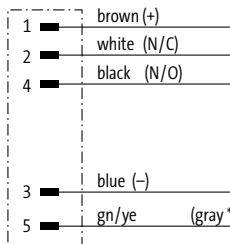
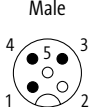
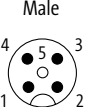
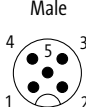
M12 ROUND PLUG CONNECTORS

Open ended wires

Male
90°



Approvals:    * only for products with UL/CSA approved cable

1	Form	12081			12101			12121		
	Type Circuit diagram	3-pole 			4-pole 			5-pole  (* for cable type 126 and 732)		
2	Contact layout									
	Cable Type	Jacket Color			Jacket Color			Jacket Color		
	Wire diameter 0.34 mm²	yellow	gray	black	yellow	gray	black	yellow	gray	black
	PVC (UL/CSA)	013	213	613	014	214	614	015	215	615
	PUR/PVC	023	223	623	024	224	624	025	225	625
	PUR (UL/CSA)	033	233	633	034	234	634	035 (126)	235	635 (732)
PUR (UL/CSA), welding spark res.	053	253	653	054	254	654	055	255	655	
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. 250 V AC/DC						max. 125 V AC/DC			
Protection	IP65 and IP67 when plugged and screwed down (EN 60529)									
Temperature range	-25...+85 °C, depending on cable quality									
Article No.										
The composition of your article number is explained on page 3.1.i		7 0 0 0			- - - - -			- - - - -		
		7 0 0 5			M12 Lite (plastic hexagonal screw) on request					
		1 Form			2 Cable Type			3 Cable Length		
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.								

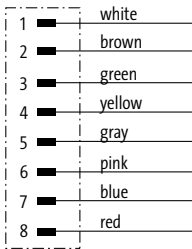
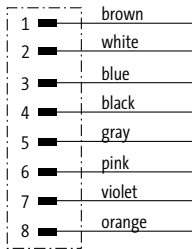
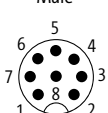
M12 ROUND PLUG CONNECTORS

Open ended wires

Male
90°



Approvals:   
* only for products with UL/CSA approved cable

1 Form		17021	17021
Type		8-pole	8-pole
Circuit diagram			
Contact layout		Male 	
2 Cable Type		Jacket Color	Jacket Color
Wire diameter 0.25 mm²		gray	gray
PUR		292	
PUR (UL/CSA)			295
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. 30 V AC/DC	
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)	
Temperature range		-25...+85 °C, depending on cable quality	
Article No.			
The composition of your article number is explained on page 3.1.i		7 0 0 0 - - - - -	- - - - -
		7 0 0 5 M12 Lite (plastic hexagonal screw) on request	
		1 Form	2 Cable Type 3 Cable Length
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.	

M12 ROUND PLUG CONNECTORS

Open ended wires

Male
90°



Approvals:  

1	Form	19021		
	Type	12-pole		
	Circuit diagram	1 2 3 4 5 6 7 8 9 10 11 12 brown blue white green pink yellow black gray red violet gray/pink red/blue		
Contact layout	Male 1 2 3 4 5 6 7 8 9 10 11 12			
2	Cable Type	Jacket Color		
	Wire diameter 0.25 mm²		gray	black
	PUR (UL/CSA)		301	
	Wire diameter 0.14 mm²			
	PVC			702
	PUR (UL/CSA)			705
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. 30 V AC/DC		
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)		
Temperature range		-25...+85 °C, depending on cable quality		
Article No.				
The composition of your article number is explained on page 3.1.i		7 0 0 0		- 1 9 0 2 1 -
		7 0 0 5		M12 Lite (plastic hexagonal screw) on request
		1	Form	2 Cable Type
		3	Cable Length	
Notes				
		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.		

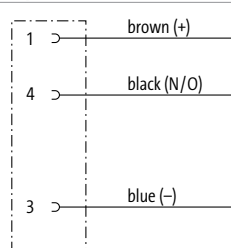
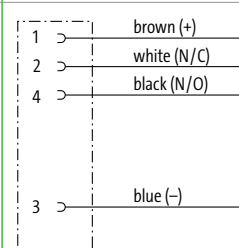
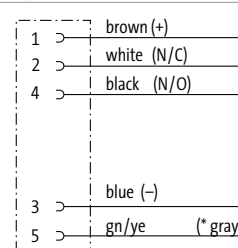
M12 ROUND PLUG CONNECTORS

Open ended wires

Female
straight


Approvals:    

* only for products with UL/CSA approved cable

1	Form	12181	me			12221	me			12241	me		
	Type	3-pole			4-pole			5-pole					
	Circuit diagram							 (* for cable type 126 and 732)					
	Contact layout												
2	Cable Type	Jacket Color			Jacket Color			Jacket Color					
	Wire diameter 0.34 mm²	yellow	gray	black	yellow	gray	black	yellow	gray	black			
	PVC (UL/CSA)	013	213	613	014	214	614	015	215	615			
	PUR/PVC	023	223	623	024	224	624	025	225	625			
	PUR (UL/CSA)	033	233	633	034	234	634	035 (126)	235	635 (732)			
	PUR (UL/CSA), welding spark res.	053	253	653	054	254	654	055	255	655			
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. 250 V AC/DC						max. 125 V AC/DC					
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)											
Temperature range		-25...+85 °C, depending on cable quality											
Article No.													
The composition of your article number is explained on page 3.1.i		7 0 0 0 - 7 0 0 5 M12 Lite (plastic hexagonal screw) on request											
		1 Form			2 Cable Type			3 Cable Length					
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.											

M12 ROUND PLUG CONNECTORS

Open ended wires

Female
straight



Approvals:    ^{*}
* only for products with UL/CSA approved cable

1 Form		17041		17041	
Type		8-pole		8-pole	
Circuit diagram		1 2 3 4 5 6 7 8 white brown green yellow gray pink blue red		1 2 3 4 5 6 7 8 brown white blue black gray pink violet orange	
Contact layout		Female 4 5 6 7 8 1 2 3			
2 Cable Type		Jacket Color		Jacket Color	
Wire diameter 0.25 mm²			gray		gray
PUR			292		
PUR (UL/CSA)					295
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. 30 V AC/DC			
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)			
Temperature range		-25...+85 °C, depending on cable quality			
Article No.					
The composition of your article number is explained on page 3.1.i		7 0 0 0		— — — — —	
		7 0 0 5		M12 Lite (plastic hexagonal screw) on request	
		1 Form		2 Cable Type	
				3 Cable Length	
Notes					
		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.			

M12 ROUND PLUG CONNECTORS

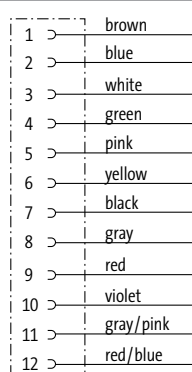
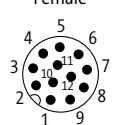
Open ended wires

Female

straight



Approvals: 

1 Form		19041	
Type		12-pole	
Circuit diagram			
Contact layout		Female 	
2 Cable Type		Jacket Color	
Wire diameter 0.25 mm²		gray	black
PUR (UL/CSA)		301	
Wire diameter 0.14 mm²			
PVC			702
PUR (UL/CSA)			705
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. 30 V AC/DC	
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)	
Temperature range		-25...+85 °C, depending on cable quality	
Article No.			
The composition of your article number is explained on page 3.1.i		7 0 0 0 - 1 9 0 4 1 - _ _ _	_ _ _ _
		7 0 0 5 M12 Lite (plastic hexagonal screw) on request	
		1 Form	2 Cable Type
			3 Cable Length
Notes			
		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.	

M12 ROUND PLUG CONNECTORS

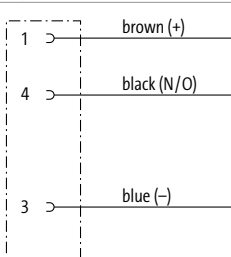
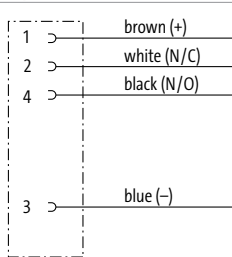
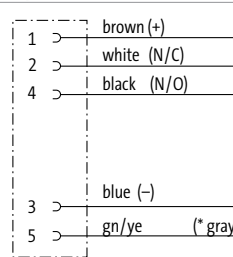
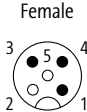
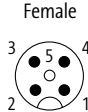
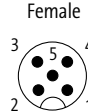
Open ended wires

Female

90°



Approvals:    * only for products with UL/CSA approved cable

1	Form	12321	me✕			12341	me✕			12361	me✕		
	Type	3-pole			4-pole			5-pole					
	Circuit diagram							 (* for cable type 126 and 732)					
	Contact layout												
2	Cable Type	Jacket Color			Jacket Color			Jacket Color					
	Wire diameter 0.34 mm²	yellow	gray	black	yellow	gray	black	yellow	gray	black			
	PVC (UL/CSA)	013	213	613	014	214	614	015	215	615			
	PUR/PVC	023	223	623	024	224	624	025	225	625			
	PUR (UL/CSA)	033	233	633	034	234	634	035 (126)	235	635 (732)			
	PUR (UL/CSA), welding spark res.	053	253	653	054	254	654	055	255	655			
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. 250 V AC/DC						max. 125 V AC/DC					
	Protection	IP65 and IP67 when plugged and screwed down (EN 60529)											
	Temperature range	-25...+85 °C, depending on cable quality											
Article No.													
	The composition of your article number is explained on page 3.1.i	7 0 0 0 - - - - - - - - - -											
		7 0 0 5 M12 Lite (plastic hexagonal screw) on request											
		1 Form			2 Cable Type			3 Cable Length					
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.											

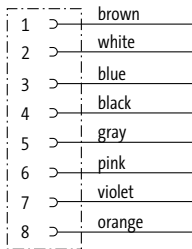
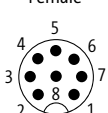
M12 ROUND PLUG CONNECTORS

Open ended wires

Female
90°



Approvals:   
* only for products with UL/CSA approved cable

1 Form		17061	17061
Type		8-pole	8-pole
Circuit diagram			
Contact layout		Female 	
2 Cable Type		Jacket Color	Jacket Color
Wire diameter 0.25 mm²		gray	gray
PUR		292	
PUR (UL/CSA)			295
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. 30 V AC/DC	
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)	
Temperature range		-25...+85 °C, depending on cable quality	
Article No.			
The composition of your article number is explained on page 3.1.i		7 0 0 0 - - - - -	- - - - -
		7 0 0 5 M12 Lite (plastic hexagonal screw) on request	
		1 Form	2 Cable Type 3 Cable Length
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.	

M12 ROUND PLUG CONNECTORS

Open ended wires

Female

90°



Approvals:  

1	Form	19061					
	Type	12-pole					
	Circuit diagram	1 2 3 4 5 6 7 8 9 10 11 12 brown blue white green pink yellow black gray red violet gray/pink red/blue					
	Contact layout	Female 4 5 6 7 8 9 1 2 3 10 11 12					
2	Cable Type	Jacket Color					
	Wire diameter 0.25 mm²		gray	black			
	PUR (UL/CSA)		301				
	Wire diameter 0.14 mm²						
	PVC			702			
	PUR (UL/CSA)			705			
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. 30 V AC/DC					
	Protection	IP65 and IP67 when plugged and screwed down (EN 60529)					
	Temperature range	-25...+85 °C, depending on cable quality					
	Article No.						
	The composition of your article number is explained on page 3.1.i	7 0 0 0 - 1 9 0 6 1 -					
		7 0 0 5 M12 Lite (plastic hexagonal screw) on request					
		1	Form	2	Cable Type	3	Cable Length
Notes							
	Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.						

M12 ROUND PLUG CONNECTORS

Open ended wires

– with LED

Female

straight



Female

90°



Approvals:    ^{*}
* only for products with UL/CSA approved cable

1	Form	1 2 2 8 1			1 2 4 0 1			me					
	Type	4-pole with 2 × LED (PNP) (NPN) on request			4-pole with 2 × LED (PNP) (NPN) on request								
	Circuit diagram												
Contact layout													
2	Cable Type	Jacket Color			Jacket Color								
	Wire diameter 0.34 mm²	yellow	gray	black	yellow	gray	black						
	PVC (UL/CSA)	013	213	613	013	213	613						
	PUR/PVC	023	223	623	023	223	623						
	PUR (UL/CSA)	033	233	633	033	233	633						
	PUR (UL/CSA), welding spark res.	053	253	653	053	253	653						
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 and IP67 when plugged and screwed down (EN 60529)											
Temperature range		-25...+85 °C, depending on cable quality											
Article No.													
The composition of your article number is explained on page 3.1.i		7 0 0 0			-			-					
		7 0 0 5			M12 Lite (plastic hexagonal screw) on request								
		1		Form		2		Cable Type		3		Cable Length	
Notes													
		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.											

M12 ROUND PLUG CONNECTORS

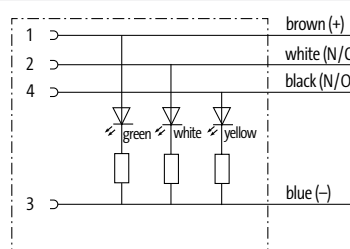
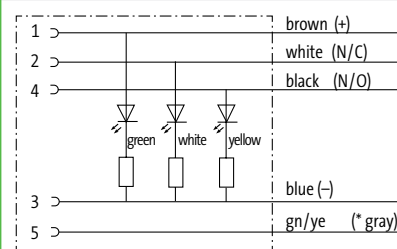
Open ended wires

– with LED

Approvals:   

* only for products with UL/CSA approved cable

Female
90°


1 Form		12421			me		12441			me			
Type		4-pole with 3 × LED (PNP)						5-pole with 3 × LED (PNP)					
		(NPN) on request						(NPN) on request					
Circuit diagram								 (* for cable type 126 and 732)					
Contact layout													
2 Cable Type		Jacket Color						Jacket Color					
Wire diameter 0.34 mm²		yellow		gray		black		yellow		gray		black	
PVC (UL/CSA)		014		214		614		015		215		615	
PUR/PVC		024		224		624		025		225		625	
PUR (UL/CSA)		034		234		634		035 (126)		235		635 (732)	
PUR (UL/CSA), welding spark res.		054		254		654		055		255		655	
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 and IP67 when plugged and screwed down (EN 60529)											
Temperature range		-25...+85 °C, depending on cable quality											
Article No.													
The composition of your article number is explained on page 3.1.i		7 0 0 0 - 7 0 0 5 M12 Lite (plastic hexagonal screw) on request											
		1 Form		2 Cable Type		3 Cable Length							
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.											

M12 ROUND PLUG CONNECTORS

Open ended wires

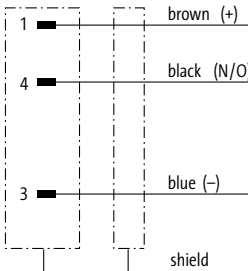
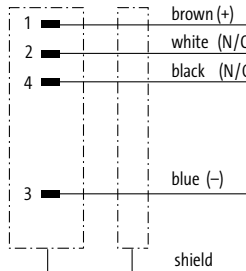
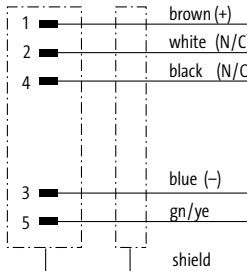
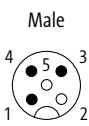
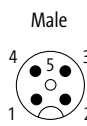
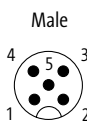
– shielded

Male

straight



Approvals:   

1	Form	13061	13081	13101
	Type	3-pole	4-pole	5-pole
	Circuit diagram			
	Contact layout			
2	Cable Type	Jacket Color	Jacket Color	Jacket Color
	Wire diameter 0.34 mm ²	gray	gray	gray
	PVC	317	330	348
	PUR/PVC	318	331	349
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		
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)		
Temperature range		-25...+85 °C, depending on cable quality		
Article No.				
The composition of your article number is explained on page 3.1.i		7 0 0 0	-	-
		1 Form	2 Cable Type	3 Cable Length

Notes

Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.

M12 ROUND PLUG CONNECTORS

Open ended wires

– shielded

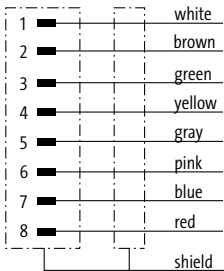
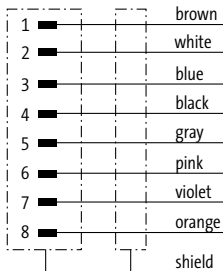
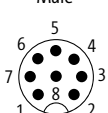
Male

straight



Approvals:   

* only for products with UL/CSA approved cable

1 Form		17081	17081
Type		8-pole	8-pole
Circuit diagram			
Contact layout		Male 	
2 Cable Type		Jacket Color	Jacket Color
Wire diameter 0.25 mm²		gray	gray
PUR, suitable for C-tracks		291	
PUR (UL/CSA)			294
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. 30 V AC/DC	
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)	
Temperature range		-25...+85 °C, depending on cable quality	
Article No.			
The composition of your article number is explained on page 3.1.i		7 0 0 0	– – – – –
		1 Form	2 Cable Type 3 Cable Length
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.	

M12 ROUND PLUG CONNECTORS

Open ended wires

– shielded

Male

straight



Approvals:  

1 Form

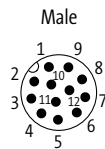
19301

Type
Circuit diagram

12-pole

1	■	brown
2	■	blue
3	■	white
4	■	green
5	■	pink
6	■	yellow
7	■	black
8	■	gray
9	■	red
10	■	violet
11	■	gray/pink
12	■	red/blue
	■	shield

Contact layout



2 Cable Type

Jacket Color

Wire diameter 0.14 mm²
PVC
PUR (UL/CSA)

black
703
706

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. 30 V AC/DC
Protection	IP65 and IP67 when plugged and screwed down (EN 60529)
Temperature range	-25...+85 °C, depending on cable quality

Article No.

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

7 0 0 0

–

1 9 3 0 1

–

– – –

– – – –

1 Form

2 Cable Type

3 Cable Length

Notes

Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.

M12 ROUND PLUG CONNECTORS

Open ended wires

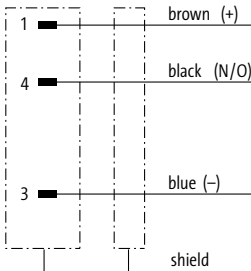
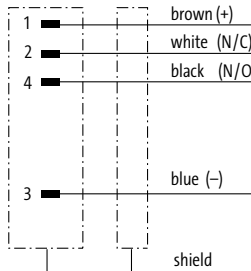
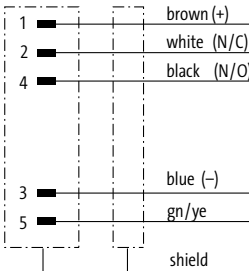
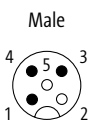
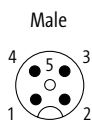
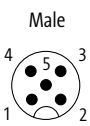
– shielded

Male

90°



Approvals:  

1 Form		13 121	13 141	13 161
Type		3-pole	4-pole	5-pole
Circuit diagram				
Contact layout				
2 Cable Type		Jacket Color	Jacket Color	Jacket Color
Wire diameter 0.34 mm²		gray	gray	gray
PVC		317	330	348
PUR/PVC		318	331	349
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		
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)		
Temperature range		-25...+85 °C, depending on cable quality		
Article No.				
The composition of your article number is explained on page 3.1.i		7 0 0 0	-	-
		1 Form	2 Cable Type	3 Cable Length
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.		

M12 ROUND PLUG CONNECTORS

Open ended wires

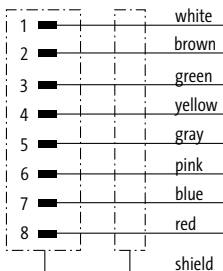
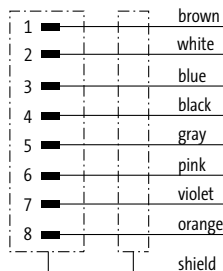
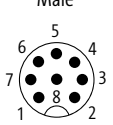
– shielded

Male

90°



Approvals:    ^{*}
* only for products with UL/CSA approved cable

1	Form	17101		17101	
	Type	8-pole		8-pole	
	Circuit diagram				
	Contact layout				
2	Cable Type	Jacket Color		Jacket Color	
	Wire diameter 0.25 mm² PUR, suitable for C-tracks PUR (UL/CSA)	gray 291		gray 294	
3	Cable Length				
	1.5 m 3.0 m 5.0 m 7.5 m 10.0 m	0150 0300 0500 0750 1000			
Technical Data					
Operating voltage		max. 30 V AC/DC			
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)			
Temperature range		-25...+85 °C, depending on cable quality			
Article No.					
The composition of your article number is explained on page 3.1.i		7 0 0 0 - -			
		1 Form		2 Cable Type	
				3 Cable Length	

Notes

Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.

M12 ROUND PLUG CONNECTORS

Open ended wires

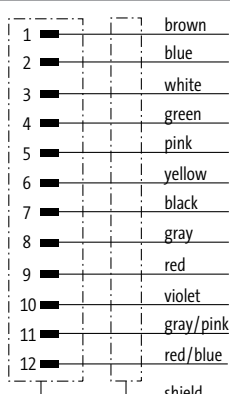
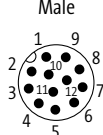
– shielded

Approvals: 

Male

90°



1 Form		19321	
Type		12-pole	
Circuit diagram			
Contact layout		Male 	
2 Cable Type		Jacket Color	
Wire diameter 0.14 mm²		black	
PVC		703	
PUR (UL/CSA)		706	
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. 30 V AC/DC	
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)	
Temperature range		-25...+85 °C, depending on cable quality	
Article No.			
The composition of your article number is explained on page 3.1.i		7 0 0 0 - 1 9 3 2 1 -	
		1 Form	2 Cable Type
		3 Cable Length	
Notes			
		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.	

M12 ROUND PLUG CONNECTORS

Open ended wires

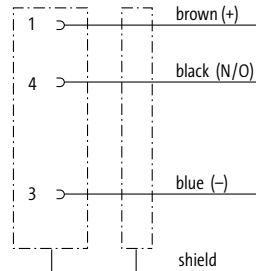
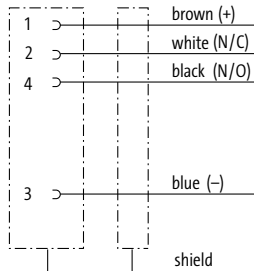
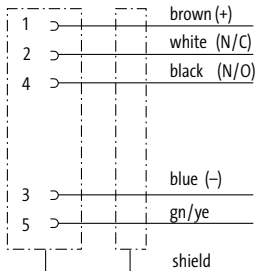
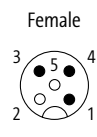
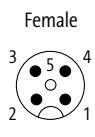
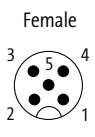
– shielded

Female

straight



Approvals:  

1	Form	13181	13201	13221
Type		3-pole	4-pole	5-pole
Circuit diagram				
Contact layout				
2	Cable Type	Jacket Color	Jacket Color	Jacket Color
Wire diameter 0.34 mm ²		gray	gray	gray
PVC		317	330	348
PUR/PVC		318	331	349
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			
Protection	IP65 and IP67 when plugged and screwed down (EN 60529)			
Temperature range	-25...+85 °C, depending on cable quality			
Article No.				
The composition of your article number is explained on page 3.1.i	7 0 0 0 - - - - -			
	1	Form	2	Cable Type
	3	Cable Length		

Notes

Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.

M12 ROUND PLUG CONNECTORS

Open ended wires

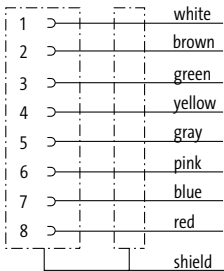
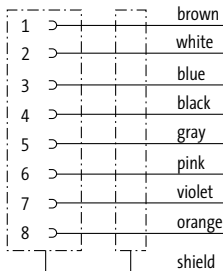
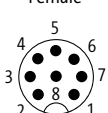
– shielded

Female

straight



Approvals:  

1 Form		17121	17121
Type		8-pole	8-pole
Circuit diagram			
Contact layout		Female 	
2 Cable Type		Jacket Color	Jacket Color
Wire diameter 0.25 mm²		gray	gray
PUR, suitable for C-tracks		291	
PUR (UL/CSA)			294
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. 30 V AC/DC	
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)	
Temperature range		-25...+85 °C, depending on cable quality	
Article No.			
The composition of your article number is explained on page 3.1.i		7 0 0 0 - - - - -	- - - - -
		1 Form	2 Cable Type 3 Cable Length
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.	

M12 ROUND PLUG CONNECTORS

Open ended wires

– shielded

Female

straight



Approvals:  

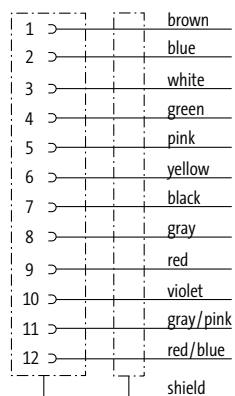
1 Form

19341

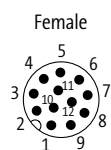
Type

12-pole

Circuit diagram



Contact layout



2 Cable Type

Jacket Color

Wire diameter 0.14 mm²

black

PVC

703

PUR (UL/CSA)

706

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. 30 V AC/DC

Protection

IP65 and IP67 when plugged and screwed down (EN 60529)

Temperature range

-25...+85 °C, depending on cable quality

Article No.

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

7 0 0 0

-

1 9 3 4 1

-

1

Form

2

Cable Type

3

Cable Length

Notes

Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.

M12 ROUND PLUG CONNECTORS

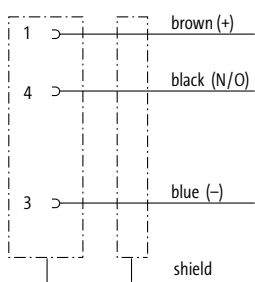
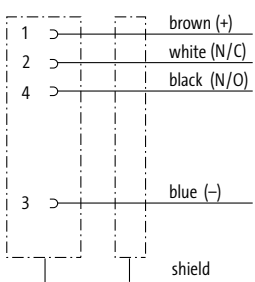
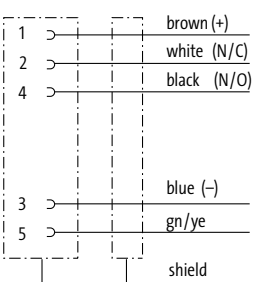
Open ended wires

– shielded

Approvals:  

Female
90°



1 Form		13 2 4 1	13 2 6 1	13 2 8 1
Type		3-pole	4-pole	5-pole
Circuit diagram				
Contact layout		Female 	Female 	Female 
2 Cable Type		Jacket Color	Jacket Color	Jacket Color
Wire diameter 0.34 mm²		gray	gray	gray
PVC		317	330	348
PUR/PVC		318	331	349
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		
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)		
Temperature range		-25...+85 °C, depending on cable quality		
Article No.				
The composition of your article number is explained on page 3.1.i		7 0 0 0	-	-
		1 Form	2 Cable Type	3 Cable Length
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.		

M12 ROUND PLUG CONNECTORS

Open ended wires

– shielded

Female

90°



Approvals:   

1 Form

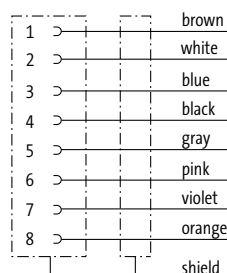
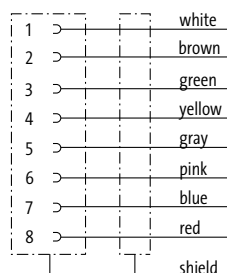
17141

17141

Type
Circuit diagram

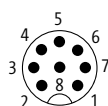
8-pole

8-pole



Contact layout

Female



2 Cable Type

Jacket Color

Jacket Color

Wire diameter 0.25 mm²
PUR, suitable for C-tracks
PUR (UL/CSA)

gray
291

gray
294

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. 30 V AC/DC
Protection	IP65 and IP67 when plugged and screwed down (EN 60529)
Temperature range	-25...+85 °C, depending on cable quality

Article No.

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

7 0 0 0

–

–

–

–

–

1 Form

2 Cable Type

3 Cable Length

Notes

Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.

M12 ROUND PLUG CONNECTORS

Open ended wires

– shielded

Approvals: 

Female

90°



1 Form		19361	
Type	12-pole		
Circuit diagram			
Contact layout			
2 Cable Type		Jacket Color	
Wire diameter 0.14 mm²			black
PVC			703
PUR (UL/CSA)			706
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. 30 V AC/DC
Protection			IP65 and IP67 when plugged and screwed down (EN 60529)
Temperature range			-25...+85 °C, depending on cable quality
Article No.			
The composition of your article number is explained on page 3.1.i			

M12 ROUND PLUG CONNECTORS

Connection cables

– M12 - M12

Male

straight

Female

straight



Approvals:
 * only for products with UL/CSA approved cable

1	Form	40001	me	40021	me	40041	me
Type	3-pole	4-pole			5-pole		
	Circuit diagram						
Contact layout	Male	Male			Male		
	Female	Female			Female		
2	Cable Type	Jacket Color			Jacket Color		
Wire diameter 0.34 mm²		yellow	gray	black	yellow	gray	black
PVC (UL/CSA)		013	213	613	014	214	614
PUR/PVC		023	223	623	024	224	624
PUR (UL/CSA)		033	233	633	034	234	634
PUR (UL/CSA), welding spark res.		053	253	653	054	254	654
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				max. 125 V AC/DC	
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)					
Temperature range		-25...+85 °C, depending on cable quality					
Article No.							
The composition of your article number is explained on page 3.1.i		7000 - -					
		7005 M12 Lite (plastic hexagonal screw) on request					
		1 Form		2 Cable Type		3 Cable Length	
Notes							
		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.					

M12 ROUND PLUG CONNECTORS

Connection cables

– M12 - M12

Male

straight

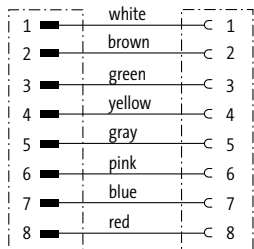
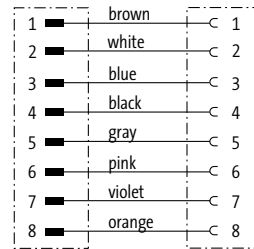
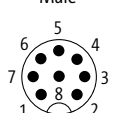
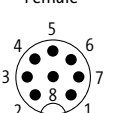
Female

straight



Approvals:   

* only for products with UL/CSA approved cable

1 Form		48001	48001
Type		8-pole	8-pole
Circuit diagram			
Contact layout		Male 	Female 
2 Cable Type		Jacket Color	Jacket Color
Wire diameter 0.25 mm²		gray	gray
PUR		292	
PUR (UL/CSA)			295
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. 30 V AC/DC	
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)	
Temperature range		-25...+85 °C, depending on cable quality	
Article No.			
The composition of your article number is explained on page 3.1.i		7 0 0 0	
		7 0 0 5	M12 Lite (plastic hexagonal screw) on request
		1 Form	2 Cable Type
			3 Cable Length
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.	

M12 ROUND PLUG CONNECTORS

Connection cables

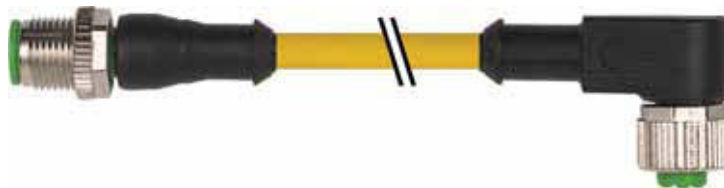
– M12 - M12

Male

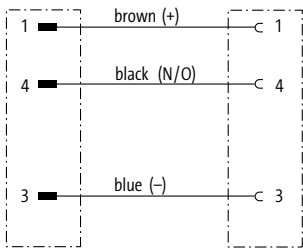
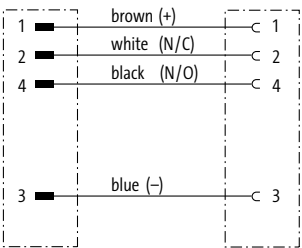
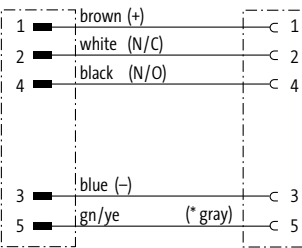
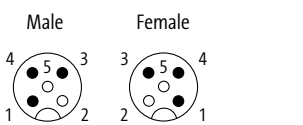
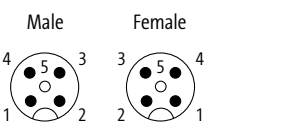
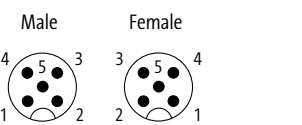
straight

Female

90°



Approvals:    * only for products with UL/CSA approved cable

1 Form		40101 me			40121 me			40141 me		
Type		3-pole			4-pole			5-pole		
Circuit diagram								 (* for cable type 126 and 732)		
Contact layout										
2 Cable Type		Jacket Color			Jacket Color			Jacket Color		
Wire diameter 0.34 mm²		yellow	gray	black	yellow	gray	black	yellow	gray	black
PVC (UL/CSA)		013	213	613	014	214	614	015	215	615
PUR/PVC		023	223	623	024	224	624	025	225	625
PUR (UL/CSA)		033	233	633	034	234	634	035 (126)	235	635 (732)
PUR (UL/CSA), welding spark res.		053	253	653	054	254	654	055	255	655
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						max. 125 V AC/DC		
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)								
Temperature range		-25...+85 °C, depending on cable quality								
Article No.										
The composition of your article number is explained on page 3.1.i		7 0 0 0 - - - - - - - - - -								
		7 0 0 5 M12 Lite (plastic hexagonal screw) on request								
		1 Form			2 Cable Type			3 Cable Length		
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.								

M12 ROUND PLUG CONNECTORS

Connection cables

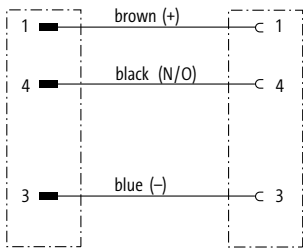
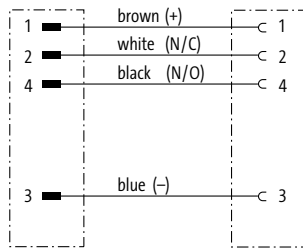
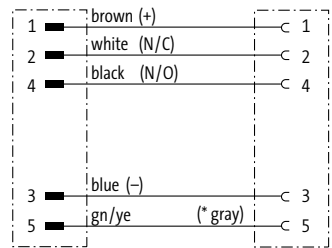
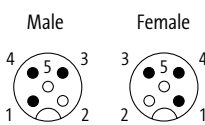
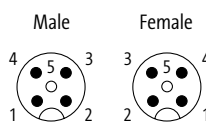
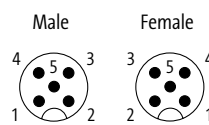
– M12 - M12

Male
90°

Female
straight



Approvals:   
* only for products with UL/CSA approved cable

1 Form		40171			40201			40221		
Type		3-pole			4-pole			5-pole		
Circuit diagram								 (* for cable type 126 and 732)		
Contact layout										
2 Cable Type		Jacket Color			Jacket Color			Jacket Color		
Wire diameter 0.34 mm²		yellow	gray	black	yellow	gray	black	yellow	gray	black
PVC (UL/CSA)		013	213	613	014	214	614	015	215	615
PUR/PVC		023	223	623	024	224	624	025	225	625
PUR (UL/CSA)		033	233	633	034	234	634	035 (126)	235	635 (732)
PUR (UL/CSA), welding spark res.		053	253	653	054	254	654	055	255	655
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							max. 125 V AC/DC	
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)								
Temperature range		-25...+85 °C, depending on cable quality								
Article No.										
The composition of your article number is explained on page 3.1.i		7000 - -								
		7005 M12 Lite (plastic hexagonal screw) on request								
		1 Form			2 Cable Type			3 Cable Length		
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.								

M12 ROUND PLUG CONNECTORS

Connection cables

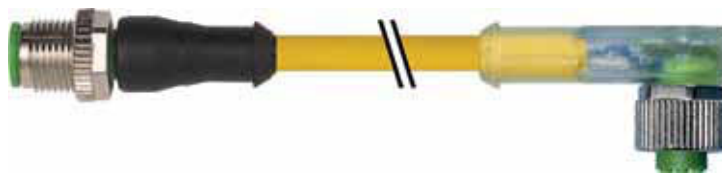
– M12 - M12

Male

straight

Female

90° with LED



Approvals:    * only for products with UL/CSA approved cable

1	Form	40321me			40341me			40361me		
	Type	3-pole with 2 × LED (PNP) (NPN) on request			4-pole with 3 × LED (PNP) (NPN) on request			5-pole with 3 × LED (PNP) (NPN) on request		
	Circuit diagram									
	Contact layout									
2	Cable Type	Jacket Color			Jacket Color			Jacket Color		
	Wire diameter 0.34 mm²	yellow	gray	black	yellow	gray	black	yellow	gray	black
	PVC (UL/CSA)	013	213	613	014	214	614	015	215	615
	PUR/PVC	023	223	623	024	224	624	025	225	625
	PUR (UL/CSA)	033	233	633	034	234	634	035 (126)	235	635 (732)
	PUR (UL/CSA), welding spark res.	053	253	653	054	254	654	055	255	655
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 and IP67 when plugged and screwed down (EN 60529)								
Temperature range		-25...+85 °C, depending on cable quality								
Article No.										
The composition of your article number is explained on page 3.1.i		7000 - -								
		7005 M12 Lite (plastic hexagonal screw) on request								
		1Form			2Cable Type			3Cable Length		
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.								

M12 ROUND PLUG CONNECTORS

Connection cables

– M12 - M12

Male

straight

Female

90° with LED



Approvals:   

* only for products with UL/CSA approved cable

1 Form

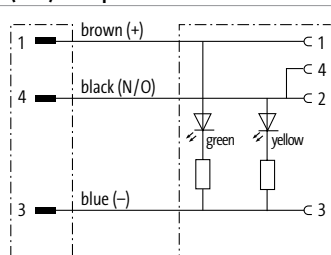
40381

Type

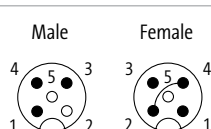
3-pole with 2 × LED (PNP)

(NPN) on request

Circuit diagram



Contact layout



2 Cable Type

Jacket Color

Wire diameter 0.34 mm²

yellow

gray

black

PVC (UL/CSA)

013

213

613

PUR/PVC

023

223

623

PUR (UL/CSA)

033

233

633

PUR (UL/CSA), welding spark res.

053

253

653

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 and IP67 when plugged and screwed down (EN 60529)

Temperature range

-25...+85 °C, depending on cable quality

Article No.

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

7 0 0 0

– 4 0 3 8 1 –

7 0 0 5

M12 Lite (plastic hexagonal screw) on request

1 Form

2 Cable Type

3 Cable Length

Notes

Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.

M12 ROUND PLUG CONNECTORS

Connection cables

– M12 - M12

Y connector

Male straight

Females

straight



Approvals:    * only for products with UL/CSA approved cable

1 Form		40701			40721		
Type		4-pole			4-pole		
Circuit diagram							
Contact layout		Y-Male  Females 			Y-Male  Females 		
2 Cable Type		Jacket Color			Jacket Color		
Wire diameter 0.34 mm²		yellow	gray	black	yellow	gray	black
PVC (UL/CSA)		013	213	613	013	213	613
PUR/PVC		023	223	623	023	223	623
PUR (UL/CSA)		033	233	633	033	233	633
PUR (UL/CSA), welding spark res.		053	253	653	053	253	653
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 and IP67 when plugged and screwed down (EN 60529)					
Temperature range		-25...+85 °C, depending on cable quality					
Article No.							
The composition of your article number is explained on page 3.1.i		7 0 0 0					
		7 0 0 5			M12 Lite (plastic hexagonal screw) on request		
		1	Form	2	Cable Type	3	Cable Length
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.					

M12 ROUND PLUG CONNECTORS

Connection cables

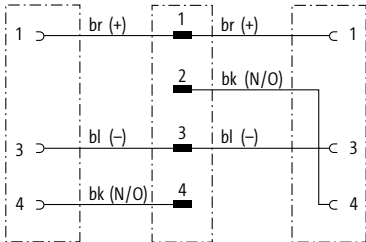
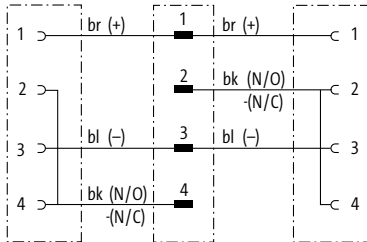
– M12 - M12

Approvals:   
 * only for products with UL/CSA approved cable

Y connector
 Male straight

Females
 90°



1 Form		40741	40761
Type		4-pole	4-pole
Circuit diagram			
Contact layout		Y-Male Females  	Y-Male Females  
2 Cable Type		Jacket Color	
Wire diameter 0.34 mm²		yellow	gray
PVC (UL/CSA)		013	213
PUR/PVC		023	223
PUR (UL/CSA)		033	233
PUR (UL/CSA), welding spark res.		053	253
3 Cable Length		Jacket Color	
0.3 m		0030	
0.6 m		0060	
1.0 m		0100	
1.5 m		0150	
2.0 m		0200	
Technical Data		Jacket Color	
Operating voltage		max. 250 V AC/DC	
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)	
Temperature range		-25...+85 °C, depending on cable quality	
Article No.		Jacket Color	
The composition of your article number is explained on page 3.1.i		7 0 0 0	
		7 0 0 5	M12 Lite (plastic hexagonal screw) on request
		1 Form	2 Cable Type
		3 Cable Length	
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.	

M12 ROUND PLUG CONNECTORS

Connection cables

– M12 - M12

Y connector

Male straight

Females

90° with LED



Approvals:   
 * only for products with UL/CSA approved cable

1 Form

40781

40801

Type

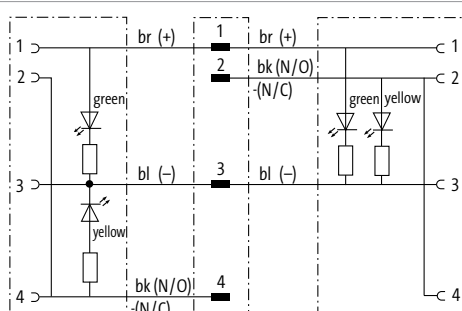
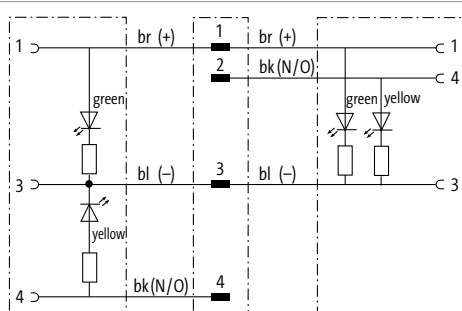
4-pole with 2 × LED (PNP)

4-pole with 2 × LED (PNP)

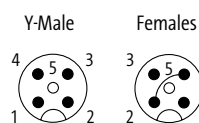
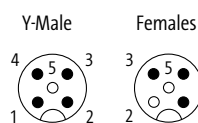
(NPN) on request

(NPN) on request

Circuit diagram



Contact layout



2 Cable Type

Jacket Color

Jacket Color

Wire diameter 0.34 mm²

yellow

gray

black

yellow

gray

black

PVC (UL/CSA)

013

213

613

013

213

613

PUR/PVC

023

223

623

023

223

623

PUR (UL/CSA)

033

233

633

033

233

633

PUR (UL/CSA), welding spark res.

053

253

653

053

253

653

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 and IP67 when plugged and screwed down (EN 60529)

Temperature range

-25...+85 °C, depending on cable quality

Article No.

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

7 0 0 0

-

-

7 0 0 5

M12 Lite (plastic hexagonal screw) on request

1

Form

2

Cable Type

3

Cable Length

Notes

Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.

M12 ROUND PLUG CONNECTORS

Connection cables

– M12 - M12

– shielded

Male

straight

Female

straight



Approvals:

1 Form		40481	40501	40521
Type		3-pole	4-pole	5-pole
Circuit diagram				
Contact layout		Male Female	Male Female	Male Female
2 Cable Type		Jacket Color		Jacket Color
Wire diameter 0.34 mm²		gray	gray	gray
PVC		317	330	348
PUR/PVC		318	331	349
PUR			820 - DESINA®	
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. 60 V AC/DC		
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)		
Temperature range		-25...+85 °C, depending on cable quality		
Article No.				
The composition of your article number is explained on page 3.1.i		7 0 0 0	-	-
		1 Form	2 Cable Type	3 Cable Length
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.		

M12 ROUND PLUG CONNECTORS

Connection cables

– M12 - M12

– shielded

Male

straight

Female

straight



Approvals:    * only for products with UL/CSA approved cable

1 Form

48041

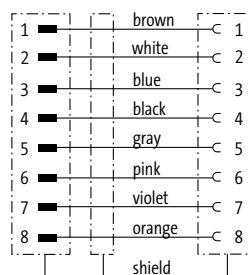
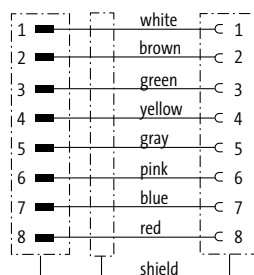
48041

Type

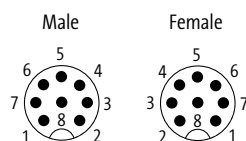
8-pole

8-pole

Circuit diagram



Contact layout



2 Cable Type

Jacket Color

Jacket Color

Wire diameter 0.25 mm²
PUR, suitable for C-tracks
PUR (UL/CSA)

gray
291

gray
294

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. 30 V AC/DC
Protection	IP65 and IP67 when plugged and screwed down (EN 60529)
Temperature range	-25...+85 °C, depending on cable quality

Article No.

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

7 0 0 0

–

–

–

–

–

1 Form

2 Cable Type

3 Cable Length

Notes

Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.

M12 ROUND PLUG CONNECTORS

Connection cables

– M12 - M8

Male

straight

Female

straight



Approvals:   

* only for products with UL/CSA approved cable

1	Form	40561			me		40581			me			
	Type	3-pole					4-pole						
	Circuit diagram												
	Contact layout												
2	Cable Type	Jacket Color					Jacket Color						
	Wire diameter 0.25 mm²	yellow	gray	black			yellow	gray	black				
	PVC (UL/CSA)	010	210	610			011	211	611				
	PUR/PVC	020	220	620			021	221	621				
	PUR (UL/CSA)	030	230	630			031	231	631				
	PUR (UL/CSA), welding spark res.	050	250	650			051	251	651				
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. 60 V AC/DC					max. 30 V AC/DC						
	Protection	IP65 and IP67 when plugged and screwed down (EN 60529)											
	Temperature range	-25...+85 °C, depending on cable quality											
Article No.													
	The composition of your article number is explained on page 3.1.i	7 0 0 0 - - - - - - - - - -											
		1		Form		2		Cable Type		3		Cable Length	
Notes													
		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.											

M12 ROUND PLUG CONNECTORS

Connection cables

– M12 - M8

Male

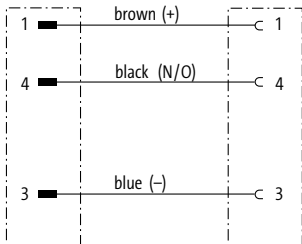
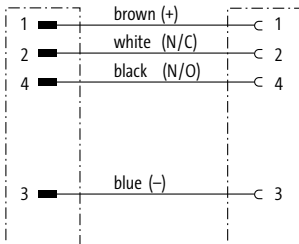
straight

Female

90°



Approvals:    * only for products with UL/CSA approved cable

1	Form	40601			me×			40621			me×		
	Type	3-pole						4-pole					
	Circuit diagram												
	Contact layout	Male  Female 						Male  Female 					
2	Cable Type	Jacket Color						Jacket Color					
	Wire diameter 0.25 mm²	yellow	gray	black	yellow	gray	black	yellow	gray	black	yellow	gray	black
	PVC (UL/CSA)	010	210	610	011	211	611	010	210	610	011	211	611
	PUR/ PVC	020	220	620	021	221	621	020	220	620	021	221	621
	PUR (UL/CSA)	030	230	630	031	231	631	030	230	630	031	231	631
	PUR (UL/CSA), welding spark res.	050	250	650	051	251	651	050	250	650	051	251	651
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. 60 V AC/DC						max. 30 V AC/DC					
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)											
Temperature range		-25...+85 °C, depending on cable quality											
Article No.													
The composition of your article number is explained on page 3.1.i		7000 - -											
					1 Form			2 Cable Type			3 Cable Length		
Notes													

Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.

M12 ROUND PLUG CONNECTORS

Connection cables

– M12 - M8

Male
straight

Female
90° with LED

Y connector
Male straight

Females
straight



Approvals:

* only for products with UL/CSA approved cable

1 Form		40641	me	40821
Type		3-pole with 2 × LED (PNP) (NPN) on request		4-pole
Circuit diagram				
Contact layout		Male Female		Y-Male Females
2 Cable Type		Jacket Color		
Wire diameter 0.25 mm²		yellow	gray	black
PVC (UL/CSA)		010	210	610
PUR/PVC		020	220	620
PUR (UL/CSA)		030	230	630
PUR (UL/CSA), welding spark res.		050	250	650
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 %		max. 60 V AC/DC
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)		
Temperature range		-25...+85 °C, depending on cable quality		
Article No.				
The composition of your article number is explained on page 3.1.i		7 0 0 0	-	-
		1 Form	2 Cable Type	3 Cable Length
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.		

M12 ROUND PLUG CONNECTORS

Connection cables

– M12 - M8

Approvals:   
 * only for products with UL/CSA approved cable

Y connector

Male straight

Females

90°



Y connector

Male straight

Females

90° with LED



1 Form		40841			40861		
Type		4-pole			4-pole with 2 × LED (PNP) (NPN) on request		
Circuit diagram							
Contact layout		Y-Male Females					
2 Cable Type		Jacket Color			Jacket Color		
Wire diameter 0.25 mm²		yellow	gray	black	yellow	gray	black
PVC (UL/CSA)		010	210	610	010	210	610
PUR/PVC		020	220	620	020	220	620
PUR (UL/CSA)		030	230	630	030	230	630
PUR (UL/CSA), welding spark res.		050	250	650	050	250	650
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. 60 V AC/DC			24 V DC ±25 %		
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)					
Temperature range		-25...+85 °C, depending on cable quality					
Article No.							
The composition of your article number is explained on page 3.1.i		7 0 0 0 - - - - -			- - - - -		
		1 Form			2 Cable Type		
					3 Cable Length		
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.					

M12 ROUND PLUG CONNECTORS

Field-wireable

– Insulation displacement technology

Male
straight



Female
straight



Approvals:

1	Form	12461 me×	12481 me×	12581 me×	12601 me×
	Type	3-pole		4-pole	
	Circuit diagram				
Connection cross section		0.25...0.5 mm²			
Contact layout		Male		Male	
		Female		Female	
Technical Data					
Operating voltage		max. 32 V AC/DC			
Operating current per contact		max. 4 A			
Connection cross section		0.25...0.5 mm² (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)			
Temperature range		-25...+85 °C			
Article No.					
The composition of your article number is explained on page 3.1.i		7000 - - - - 00000000			
		7005M12 Lite (plastic hexagonal screw) on request			
		1 Form			
Notes					
		Other versions on request.			

M12 ROUND PLUG CONNECTORS

Field-wireable

– Insulation displacement technology

Approvals:  

Male

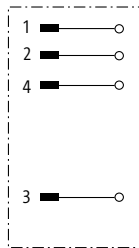
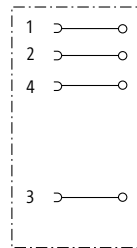
straight, compact



Female

straight, compact



1	Form	12491	me	12611	me
Type		4-pole		4-pole	
Circuit diagram					
Connection cross section		0.14...0.34 mm²			
Contact layout		Male 		Female 	
Technical Data					
Operating voltage		max. 32 V AC/DC			
Operating current per contact		max. 4 A			
Connection cross section		0.14...0.34 mm² (conductor diameter min. 0.1 mm)			
Sealing range (cable diameter)		2.9...5.1 mm			
Wire isolation		PVC, PP, TPE			
Outer wire diameter		1.0...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)			
Temperature range		-25...+85 °C			
Article No.					
The composition of your article number is explained on page 3.1.i		7 0 0 0 - - 0 0 0 0 0 0 0			
		1Form			

Notes

Other versions on request.

M12 ROUND PLUG CONNECTORS

Field-wireable

– Insulation displacement technology

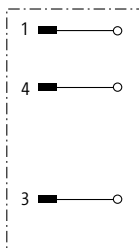
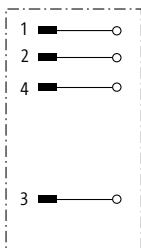
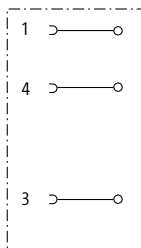
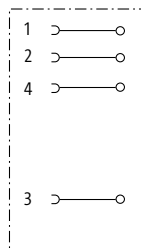
Approvals:  

Male
90°



Female
90°



1	Form	12541 me×	12561 me×	12661 me×	12681 me×
	Type	3-pole	4-pole	3-pole	4-pole
	Circuit diagram				
	Connection cross section	0.25...0.5 mm²			
	Contact layout	Male 	Male 	Female 	
Technical Data					
Operating voltage		max. 32 V AC/DC			
Operating current per contact		max. 4 A			
Connection cross section		0.25...0.5 mm² (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)			
Temperature range		-25...+85 °C			
Article No.					
The composition of your article number is explained on page 3.1.i	7 0 0 0 – – – – – – 0 0 0 0 0 0 0				
	7 0 0 5 M12 Lite (plastic hexagonal screw) on request				
		1	Form		
Notes					
		Other versions on request.			

M12 ROUND PLUG CONNECTORS

Field-wireable

– Insulation displacement technology

Female

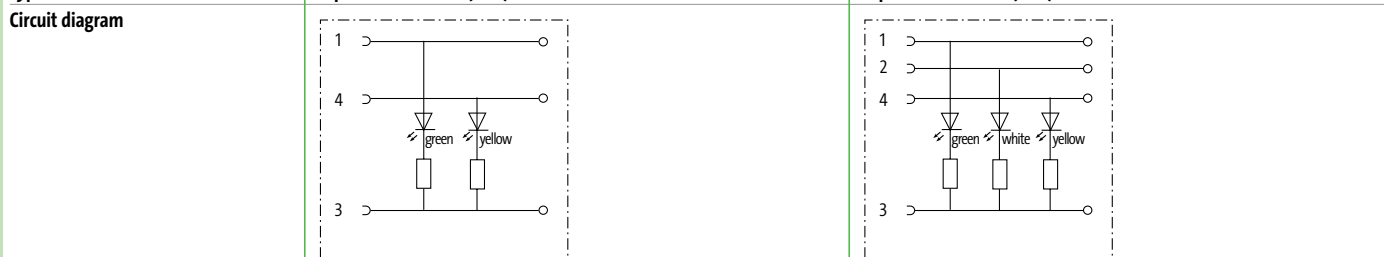
90° with LED



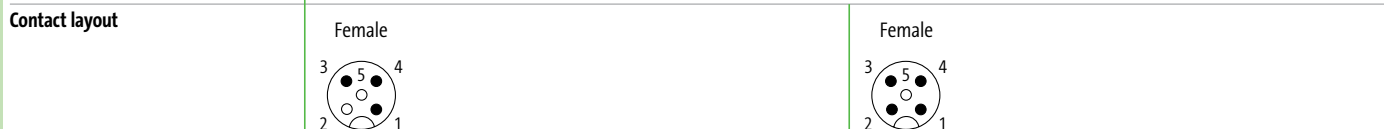
Approvals:

1 Form	12671 me	12691 me
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Type	3-pole with 2 × LED (PNP)	4-pole with 3 × LED (PNP)
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Connection cross section	0.25...0.5 mm²	
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Technical Data

Operating voltage	24 V DC ±25 %
Operating current per contact	max. 4 A
Connection cross section	0.25...0.5 mm² (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)
Temperature range	-25...+85 °C

Article No.

The composition of your article number is explained on page 3.1.i	7 0 0 0 - - - - - 0 0 0 0 0 0 0 0
	7 0 0 5 M12 Lite (plastic hexagonal screw) on request

1 Form

Notes

Other versions on request.

M12 ROUND PLUG CONNECTORS

Field-wireable

– Insulation displacement technology

Male

straight



Approvals:

1	Form	12501	me	12521	me	12515	me
Type		3-pole		4-pole		4-pole	
Circuit diagram							
Connection cross section		0.5...1.0 mm²					
Contact layout		Male		Male		Male	
Technical Data							
Operating voltage		max. 32 V AC/DC					
Operating current per contact		max. 4 A					
Connection cross section		0.5...1.0 mm² (conductor diameter min. 0.1 mm)					
Sealing range (cable diameter)		5.5...8 mm					
Wire isolation		PVC, PP, TPE					
Outer wire diameter		1.6...2.0 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)					
Temperature range		-25...+85 °C					
Article No.							
The composition of your article number is explained on page 3.1.i		7 0 0 0 - - 0 0 0 0 0 0 0					
		7 0 0 5 M12 Lite (plastic hexagonal screw) on request					
		1		Form			
Notes		Other versions on request.					

M12 ROUND PLUG CONNECTORS

Field-wireable

– Insulation displacement technology

Female

straight



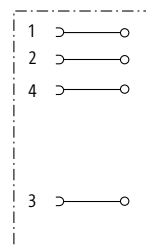
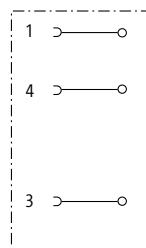
Approvals: 

1 Form

12621 me $\times$ 12641 me $\times$

Type 3-pole 4-pole

Circuit diagram



Connection cross section 0.5...1.0 mm²

Contact layout

Female



Female



Technical Data

Operating voltage	max. 32 V AC/DC
Operating current per contact	max. 4 A
Connection cross section	0.5...1.0 mm ² (conductor diameter min. 0.1 mm)
Sealing range (cable diameter)	5.5...8 mm
Wire isolation	PVC, PP, TPE
Outer wire diameter	1.6...2.0 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)
Temperature range	-25...+85 °C

Article No.

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

7 0 0 0

- - - - -

0 0 0

0 0 0 0

7 0 0 5

M12 Lite (plastic hexagonal screw) on request

1 Form

Notes

Other versions on request.

M12 ROUND PLUG CONNECTORS

Field-wireable

– Screw terminals

Male

straight



Female

straight



Approvals:

1	Form	12701 me	12721 me	12901 me	12921 me	
	Type	4-pole	5-pole	4-pole	5-pole	
	Circuit diagram					
	Sealing range (cable diameter)	4...6 mm				
	Contact layout	Male 	Male 	Female 	Female 	
Technical Data						
Operating voltage	max. 250 V AC/DC		max. 125 V AC/DC		max. 250 V AC/DC	
Operating current per contact	max. 4 A					
Connection cross section	max. 0.75 mm²					
Sealing range (cable diameter)	4...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)					
Temperature range	-25...+85 °C					
Article No.						
The composition of your article number is explained on page 3.1.i	7 0 0 0		0 0 0		0 0 0 0	
	1		Form			
Notes						
Other versions on request.						

M12 ROUND PLUG CONNECTORS

Field-wireable

– Screw terminals

Male

straight

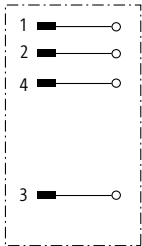
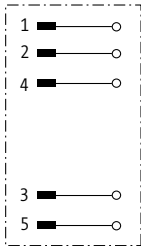
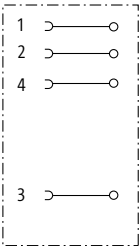
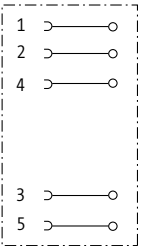


Female

straight



Approvals:

1	Form	12741 me✖	12761 me✖	12941 me✖	12961 me✖
Type		4-pole	5-pole	4-pole	5-pole
Circuit diagram					
Sealing range (cable diameter)		6...8 mm			
Contact layout		Male 	Male 	Female 	Female 
Technical Data					
Operating voltage	max. 250 V AC/DC		max. 125 V AC/DC		max. 250 V AC/DC
Operating current per contact	max. 4 A				
Connection cross section	max. 0.75 mm²				
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)				
Temperature range	-25...+85 °C				
Article No.					
The composition of your article number is explained on page 3.1.i		7 0 0 0 - - 0 0 0 0 0 0 0			
		1 Form			

Notes

Other versions on request.

M12 ROUND PLUG CONNECTORS

Field-wireable

– Screw terminals

Male

straight

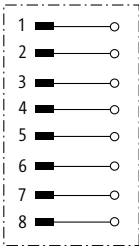
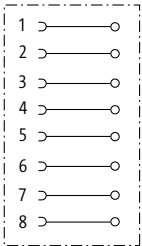
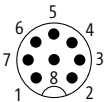
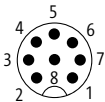


Female

straight



Approvals:

1 Form		17301		me		17321		me	
Type		8-pole				8-pole			
Circuit diagram									
Sealing range (cable diameter)		6...8 mm							
Contact layout		Male 				Female 			
Technical Data									
Operating voltage		max. 60 V AC/DC							
Operating current per contact		max. 2 A							
Connection cross section		max. 0.5 mm²							
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)							
Temperature range		-25...+85 °C							
Article No.									
The composition of your article number is explained on page 3.1.i		7 0 0 0		-		0 0 0		0 0 0 0	
		1 Form							
Notes									
		Other versions on request.							

M12 ROUND PLUG CONNECTORS

Field-wireable

– Screw terminals

Male

90°

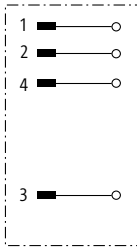
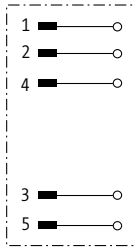
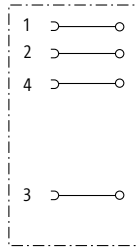
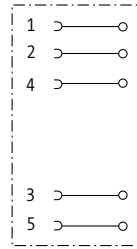


Female

90°



Approvals:  

1 Form	12821 me×	12841 me×	12981 me×	13001 me×
Type	4-pole	5-pole	4-pole	5-pole
Circuit diagram				
Sealing range (cable diameter)	4...6 mm			
Contact layout	Male 	Male 	Female 	Female 
Technical Data				
Operating voltage	max. 250 V AC/DC	max. 125 V AC/DC	max. 250 V AC/DC	max. 125 V AC/DC
Operating current per contact	max. 4 A			
Connection cross section	max. 0.75 mm²			
Sealing range (cable diameter)	4...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)			
Temperature range	-25...+85 °C			
Article No.				
The composition of your article number is explained on page 3.1.i	7 0 0 0	–	0 0 0	0 0 0 0
	1 Form			

Notes

Other versions on request.

M12 ROUND PLUG CONNECTORS

Field-wireable

– Screw terminals

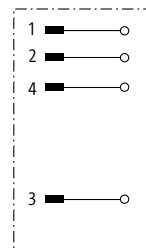
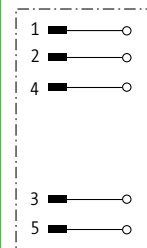
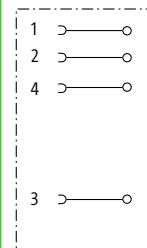
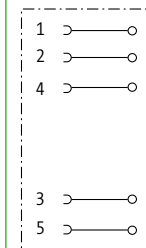
Approvals:  

Male
90°



Female
90°



1 Form		12861 me✕	12881 me✕	13021 me✕	13041 me✕
Type	4-pole	5-pole	5-pole	4-pole	5-pole
Circuit diagram					
Sealing range (cable diameter)	6...8 mm				
Contact layout	Male 	Male 	Female 	Female 	
Technical Data					
Operating voltage	max. 250 V AC/DC		max. 125 V AC/DC		max. 250 V AC/DC
Operating current per contact	max. 4 A				
Connection cross section	max. 0.75 mm²				
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)				
Temperature range	-25...+85 °C				
Article No.					
The composition of your article number is explained on page 3.1.i	7 0 0 0		0 0 0		0 0 0 0
	1 Form				
Notes					
Other versions on request.					

M12 ROUND PLUG CONNECTORS

Field-wireable

– Screw terminals

Male

90°

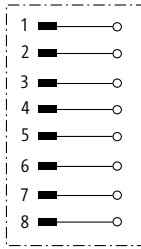
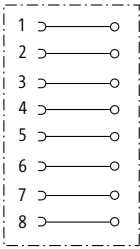
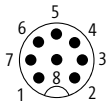
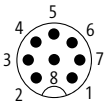


Female

90°



Approvals:

1	Form	17311	me✕	17331	me✕
	Type	8-pole			8-pole
	Circuit diagram				
	Sealing range (cable diameter)	6...8 mm			
	Contact layout	Male 			Female 
	Technical Data				
	Operating voltage	max. 60 V AC/DC			
	Operating current per contact	max. 2 A			
	Connection cross section	max. 0.5 mm²			
	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)			
	Temperature range	-25...+85 °C			
	Article No.				
	The composition of your article number is explained on page 3.1.i	7 0 0 0 - - 0 0 0 0 0 0 0			
		1 Form			
Notes	Other versions on request.				

M12 ROUND PLUG CONNECTORS

Field-wireable

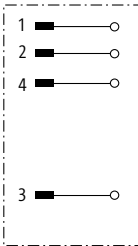
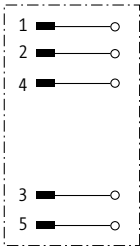
– Screw terminals

Y connector

Male straight



Approvals:

1	Form	12781	me	12801	me
	Type	4-pole		5-pole	
	Circuit diagram				
	Sealing range (cable diameter)	2.1...3/4...5 mm			
	Contact layout	Male 		Male 	
Technical Data					
	Operating voltage	max. 250 V AC/DC		max. 125 V AC/DC	
	Operating current per contact	max. 4 A			
	Connection cross section	max. 0.75 mm²			
	Sealing range (cable diameter)	2.1...3/4...5 mm (2 cable entries)			
	Protection	IP65 and IP67 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 0 0 - - 0 0 0 0 0 0 0			
		1	Form		
Notes		Other versions on request.			

M12 ROUND PLUG CONNECTORS

Field-wireable

– Screw terminals

– shielded

Approvals: 

Male

straight



Female

straight



1

Form

13301

13321

13381

13401

Type

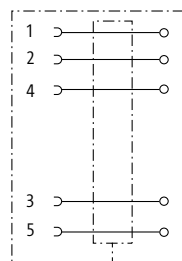
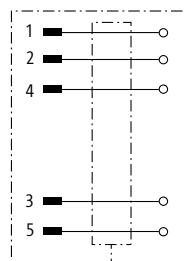
5-pole

5-pole

5-pole

5-pole

Circuit diagram



Sealing range (cable diameter)

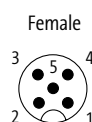
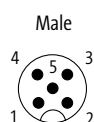
4...6 mm

6...8 mm

4...6 mm

6...8 mm

Contact layout



Technical Data

Operating voltage

max. 125 V AC/DC

Operating current per contact

max. 4 A

Connection cross section

max. 0.75 mm²

Sealing range (cable diameter)

4...6 mm

6...8 mm

4...6 mm

6...8 mm

Protection

IP65 and IP67 when plugged and screwed down (EN 60529)

Housing

CuZn, nickel plated

Temperature range

-25...+85 °C

Article No.

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

7 0 0 0

-

-

0 0 0

0 0 0 0

1

Form

Notes

Other versions on request.

M12 ROUND PLUG CONNECTORS

Field-wireable

– Screw terminals

– shielded

Approvals: 

Male

straight



Female

straight



1 Form

17341

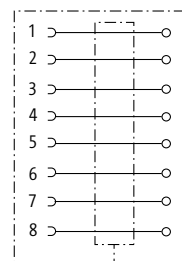
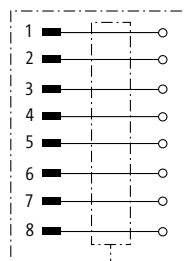
17361

Type

8-pole

8-pole

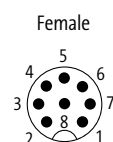
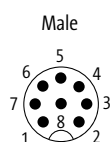
Circuit diagram



Sealing range (cable diameter)

6...8 mm

Contact layout



Technical Data

Operating voltage	max. 60 V AC/DC
Operating current per contact	max. 2 A
Connection cross section	max. 0.5 mm ²
Sealing range (cable diameter)	6...8 mm
Protection	IP65 and IP67 when plugged and screwed down (EN 60529)
Housing	CuZn, nickel plated
Temperature range	-25...+85 °C

Article No.

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

7 0 0 0

-

0 0 0

0 0 0 0

1 Form

Notes

Other versions on request.

M12 ROUND PLUG CONNECTORS

Field-wireable

– Screw terminals

– shielded

Approvals: 

Male

90°



Female

90°



1

Form

13341

13361

13421

13441

Type

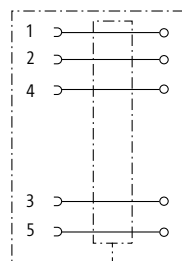
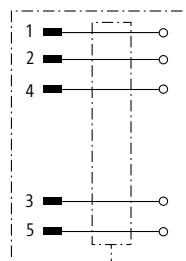
5-pole

5-pole

5-pole

5-pole

Circuit diagram



Sealing range (cable diameter)

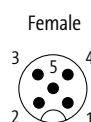
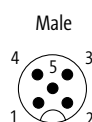
4...6 mm

6...8 mm

4...6 mm

6...8 mm

Contact layout



Technical Data

Operating voltage

max. 125 V AC/DC

Operating current per contact

max. 4 A

Connection cross section

max. 0.75 mm²

Sealing range (cable diameter)

4...6 mm

6...8 mm

4...6 mm

6...8 mm

Protection

IP65 and IP67 when plugged and screwed down (EN 60529)

Housing

CuZn, nickel plated

Temperature range

-25...+85 °C

Article No.

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

7 0 0 0

-

-

0 0 0

0 0 0 0

1

Form

Notes

Other versions on request.

M12 ROUND PLUG CONNECTORS

Field-wireable

– Screw terminals

– shielded

Approvals: 

Male

90°



Female

90°



1 Form

17351

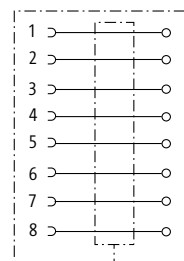
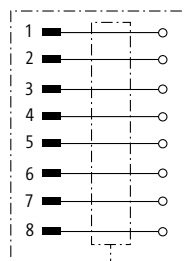
17371

Type

8-pole

8-pole

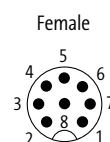
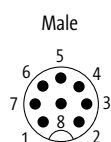
Circuit diagram



Sealing range (cable diameter)

6...8 mm

Contact layout



Technical Data

Operating voltage	max. 60 V AC/DC
Operating current per contact	max. 2 A
Connection cross section	max. 0.5 mm ²
Sealing range (cable diameter)	6...8 mm
Protection	IP65 and IP67 when plugged and screwed down (EN 60529)
Housing	CuZn, nickel plated
Temperature range	-25...+85 °C

Article No.

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

7 0 0 0

–

0 0 0

0 0 0 0

1 Form

Notes

Other versions on request.

T-COUPLERS VERSATILE ADAPTERS

- Slimline saves space
- Minimizes wiring efforts
- Many different configurations

T-COUPLERS FOR PERFECT SYSTEM INSTALLATIONS

Increasingly, automation requires a large number of sensors and with each sensor comes more wiring.

By using T-couplers you reduce the number of cables required and you can combine inputs and outputs depending on the application. Thanks to the slim design, you can connect several M12 ports to our Cube module. The handy torque wrench makes installation easy even in tight spaces and guarantees IP67 seals.

The slimline T-couplers feature a new female screw connection which makes the connection even safer and easier.

Connections



M12 male
T-coupler

M8 female
M12 female
T-coupler

Page 3.3.1



M12 male
T-coupler (slimline)

M8 female
M12 female
T-Coupler (slimline)

Page 3.3.2



7/8" male
Power distributor

7/8" female
Power distributor

Page 3.3.5

T-COUPPLERS M8, M12, 7/8"

Connection cables

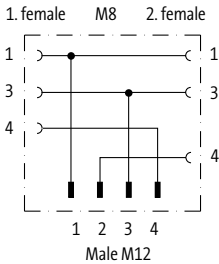
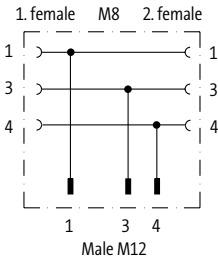
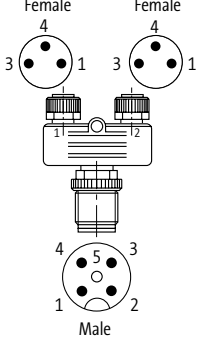
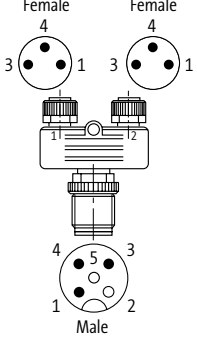
– M12 - M8

T-coupler

Male straight to female straight



Approvals:   US Listed

1 Form	41201	41221
Type Circuit diagram	4-pole 	3-pole 
Contact layout		
Technical Data		
Operating voltage	max. 60 V AC/DC	
Operating current per contact	max. 4 A	
Locking of ports	Screw thread M8/M12 × 1 mm (recommended torque 0.4/0.6 Nm), self-securing	
Protection	IP65 and IP67 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	<u>7</u> <u>0</u> <u>0</u> <u>0</u> - <u> </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.	

T-couplers M8, M12, 7/8"

T-COUPPLERS M8, M12, 7/8"

Connection cables

– M12 - M8



T-coupler (Slimline)
Male straight to female straight



T-couplers M8, M12, 7/8"

1	Form	41211	41231
Type	4-pole	3-pole	
Circuit diagram	1. female M8 2. female Male M12	1. female M8 2. female Male M12	
Contact layout	Female Female Male	Female Female Male	
Holding plate	7000-99061-0000000		
Holding plate and mounting set	7000-99062-0000000		
Technical Data			
Operating voltage	max. 60 V AC/DC		
Operating current per contact	max. 4 A		
Locking of ports	Screw thread M8/M12 × 1 mm (recommended torque 0.4/0.6 Nm), self-securing		
Protection	IP65 and IP67 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 0 0 - - 0 0 0 0 0 0 0		
	1 Form		
Notes	Other versions on request.		

T-COUPPLERS M8, M12, 7/8"

Connection cables

– M12 - M12

T-coupler

Male straight to female straight



Approvals:

1	Form	41121	41141	41161	41181
Type		5-pole		5-pole	
Circuit diagram					
Contact layout					
Technical Data					
Operating voltage		max. 60 V AC/DC			
Operating current per contact		max. 4 A			
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)			
Temperature range		-25...+85 °C			
Article No.					
The composition of your article number is explained on page 3.1.i		7000 - - 000 0000			
		1 Form			
Notes		Other versions on request.			

T-couplers M8, M12, 7/8"

T-COUPPLERS M8, M12, 7/8"

Connection cables

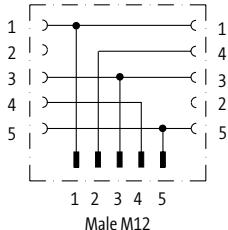
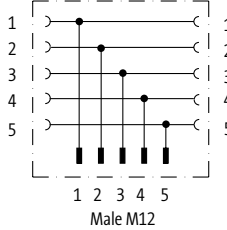
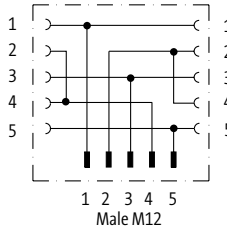
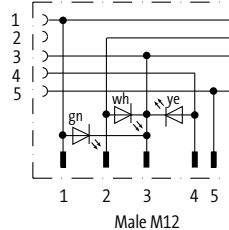
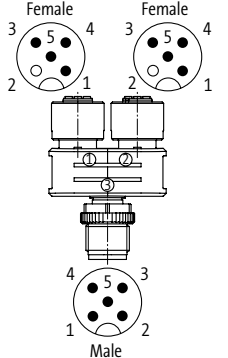
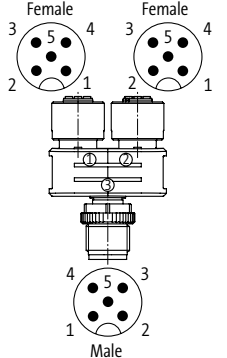
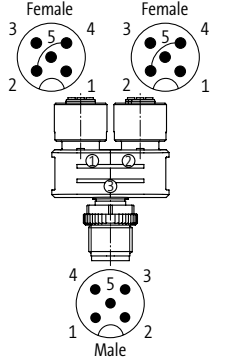
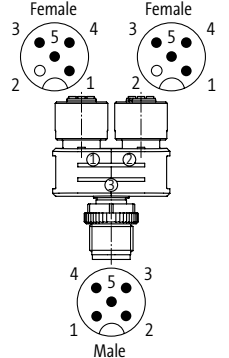
– M12 - M12

T-coupler (Slimline)

Male straight to female straight



Approvals: US Listed

1	Form	41131	41151	41191	41135
Type		5-pole	5-pole	5-pole	5-pole with 3 × LED (PNP)
Circuit diagram		1. female M12 2. female 	1. female M12 2. female 	1. female M12 2. female 	1. female M12 2. female 
Contact layout					
Holding plate		7000-99061-0000000			
Holding plate and mounting set		7000-99062-0000000			
Technical Data					
Operating voltage		max. 60 V AC/DC			24 V DC ±25 %
Operating current per contact		max. 4 A			
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)			
Temperature range		-25...+85 °C			
Article No.					
The composition of your article number is explained on page 3.1.i		7000 — 000 — 000 — 0000			
		1 Form			
Notes		Other versions on request.			

T-COUPPLERS M8, M12, 7/8"

Connection cables

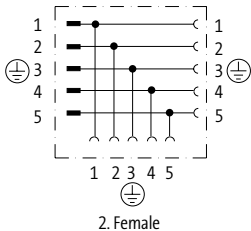
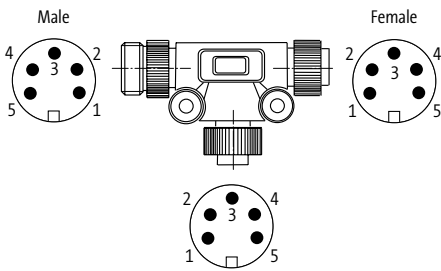
– 7/8"-7/8"

Approvals: 

T-coupler

Male straight to female straight



1 Form	50061
Type	5-pole
Circuit diagram	Male 7/8" 1. Female  2. Female
Contact layout	Male Female 
Technical Data	
Operating voltage	max. 50 V AC/DC
Operating current per contact	max. 8 A
Protection	IP65 and IP67 when plugged and screwed down (EN 60529)
Temperature range	-20...+80 °C
Article No.	
The composition of your article number is explained on page 3.1.i	7 0 0 0 – 5 0 0 6 1 – 0 0 0 0 0 0 0
	1 Form
Notes	Other versions on request.

T-couplers M8, M12, 7/8"

FLANGE CONNECTORS READY FOR ANYTHING

- Molded PP wires
- Anti-twist protection ensures convenient assembly
- Front and rear mounting

COMPREHENSIVE RANGE TO CUSTOMER NEEDS

Murrelektronik has a wide range of M12 flange plug connectors and offers solutions for all kinds of applications. A special characteristic of Murrelektronik's flange connectors is the molded polypropylene wires in the metal housing. Short-circuits can be avoided with this protection. An integrated over-rotation protection makes assembly easy.

Don't see what you needed? Visit onlineshop.murrelektronik.com for other styles including V4A Stainless Steel for Food & Beverage applications.

M8



Male/female

- 3-pole
- 4-pole

Page 3.4.1

M12



Male/female

- 4-pole
- 5-pole
- 8-pole

Page 3.4.2



Control Cabinet Entry System

Male/female

- 5-pole
- 5-pole, B-coded (for Profibus/Interbus)
- 6-pole (for Cube67)
- 8-pole

Page 3.4.5

7/8"



Male/female

- 4-pole
- 5-pole

Page 3.4.4

FLANGE CONNECTORS

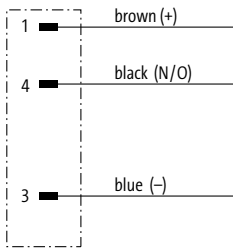
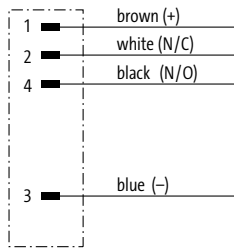
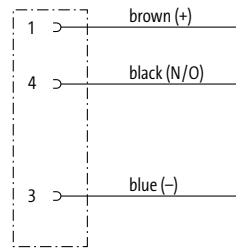
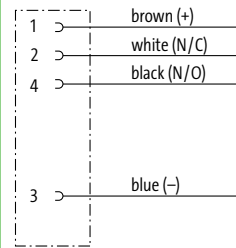
With multi-strand wire

– M8

Male

Female



1	Form	08551	08561	08571	08581
Type	3-pole	4-pole	3-pole	4-pole	
Circuit diagram					
Contact layout	Male 	Male 	Female 	Female 	
2	Wires				
TPE-S	970	971	970	971	
Hexagonal nut M8 × 0.5	7000-08591-0000000				
Technical Data					
Operating voltage	max. 30 V AC/DC	max. 60 V AC/DC	max. 30 V AC/DC	max. 60 V AC/DC	
Protection	IP65 and IP67 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 0 0 - - 0 0 2 0				
	1 Form		2 Wires		
Notes	Other versions on request.				

FLANGE CONNECTORS

With multi-strand wire

– M12

Male



1	Form	13501	13521	17161
	Type	4-pole	5-pole	8-pole
	Circuit diagram			
	Contact layout	Male	Male	Male
	Wires			
	Wire diameter 0.34 mm²	multi-colored	multi-colored	multi-colored
	TPE-S	971	972	
	Wire diameter 0.25 mm²			
	TPE-S			973
	Hexagonal nut M16 × 1.5	7000-13581-0000000		
3	Wires Length			
	0.2 m	0020		
	0.5 m	0050		
	1.0 m	0100		
Technical Data				
Operating voltage		max. 250 V AC/DC	max. 125 V AC/DC	max. 60 V AC/DC
Protection		IP65 and IP67 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 0 0	-	-
		1 Form	2 Wires	3 Wires Length
Notes		Other versions on request.		

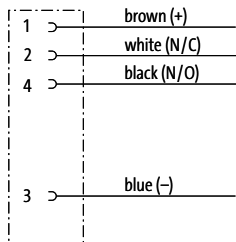
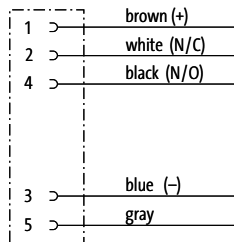
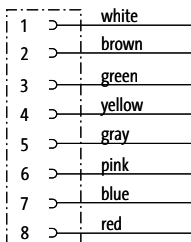
FLANGE CONNECTORS

With multi-strand wire

– M12

Female



1	Form	13541	13561	17181
Type	4-pole	5-pole	8-pole	
Circuit diagram				
Contact layout	Female 	Female 	Female 	
2	Wires			
Wire diameter 0.34 mm²	multi-colored	multi-colored	multi-colored	
TPE-S	971	972		
Wire diameter 0.25 mm²				
TPE-S			973	
Hexagonal nut M16 × 1.5	7000-13581-0000000			
3	Wires Length			
0.2 m	0020			
0.5 m	0050			
1.0 m	0100			
Technical Data				
Operating voltage	max. 250 V AC/DC	max. 125 V AC/DC	max. 60 V AC/DC	
Protection	IP65 and IP67 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 0 0	-	-	-
	1	Form	2	Wires
	3	Wires Length		
Notes				
	Other versions on request.			

FLANGE CONNECTORS

With multi-strand wire

- 7/8"

Male



Female



1	Form	78341		78381	
	Type	5-pole		5-pole	
	Circuit diagram	1 2 4 black blue brown 3 5 green/yellow white		1 2 4 black blue brown 3 5 green/yellow white	
Contact layout	Male 4 2 3 5 1		Female 2 4 3 1 5		
2	Wires				
	TPE-O	978	978		
	Hexagonal nut PG 13.5	7000-78391-0000000			
3	Wires Length				
	0.2 m	0020			
	0.5 m	0050			
	1.0 m	0100			
Technical Data					
Operating voltage		max. 250 V AC/DC			
Protection		IP65 and IP67 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 0 0 - -			
		1 Form		2 Wires	
				3 Wires Length	
Notes		Other versions on request.			

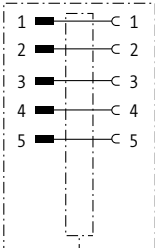
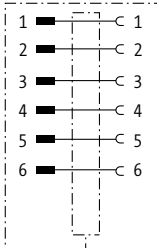
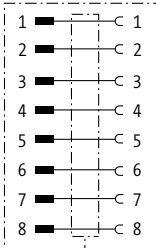
FLANGE CONNECTORS

Control cabinet entry system

Male/Female

– M12 - M12



1	Form	42111	44111	46111	48111
Type		5-pole, shielded	5-pole, shielded, B-coded	6-pole, shielded	8-pole, shielded
Circuit diagram					
Contact layout		Male  Female 	Male  Female 	Male  Female 	Male  Female 
Technical Data					
Operating voltage	max. 24 V AC/DC			max. 30 V AC/DC	max. 24 V AC/DC
Operating current per contact	max. 4 A				max. 1.5 A
Protection	IP65 and IP67 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 0 0 - - 0 0 0 0 0 0 0				
	1			Form	
Notes					
Other versions on request.					

THE MQ12 SYSTEM THE CLEVER SOLUTION

- Effective quick connection system
- Saves installation time – up to 80%
- Plug in, ¼ turn – done!

COMPATIBLE, QUICK AND SAFE

Simply clever – it's our quick connection system that doesn't require any changes on the sensor side. MQ12 is completely compatible and interchangeable with all standard systems.

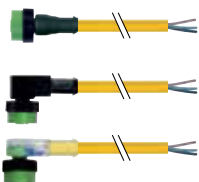
More features:

- Fits on all existing sensor and distributor systems
- High resistance to shock and vibration
- IP67 sealed



Murrelektronik's Efficient
Quick Connection System

With Open Ended Wires



MQ12 female

- Straight
- 90°
- 90° with LED

Page 3.5.1

Connection Cables



MQ12 male

- Straight

MQ12 female

- Straight
- 90°
- 90° with LED

Page 3.5.3

Field-Wireable



Insulation displacement technology

MQ12 male/female

- Straight

Page 3.5.5

MQ12 ROUND PLUG CONNECTORS

Open ended wires

– M12

Approvals: 

Female
straight



Female
90°



1 Form		12221		12341	
Type		4-pole		4-pole	
Circuit diagram		1 2 4 3 brown (+) white (N/C) black (N/O) blue (-)			
Contact layout		Female 3 2 5 4 1			
2 Cable Type		Jacket Color		Jacket Color	
Wire diameter 0.34 mm²		yellow	black	yellow	black
PVC (UL/CSA)		014	614	014	614
PUR (UL/CSA)		034	634	034	634
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. 250 V AC/DC			
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)			
Temperature range		-25...+85 °C, depending on cable quality			
Article No.					
The composition of your article number is explained on page 3.1.i		7 0 5 0 - -			
		1 Form		2 Cable Type	
				3 Cable Length	
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.			

MQ12 ROUND PLUG CONNECTORS

Open ended wires

– M12

Approvals:  

Female

90° with LED



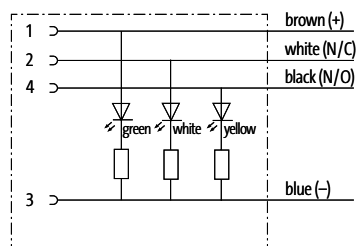
1 Form

1 2 4 2 1

Type

4-pole with 3 × LED (PNP)

Circuit diagram



Contact layout

Female



2 Cable Type

Jacket Color

Wire diameter 0.34 mm²

PVC (UL/CSA)

PUR (UL/CSA)

yellow

black

014

614

034

634

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 and IP67 when plugged and screwed down (EN 60529)

Temperature range

-25...+85 °C, depending on cable quality

Article No.

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

7 0 5 0

–

1 2 4 2 1

–

– – –

– – – –

1

Form

2

Cable Type

3

Cable Length

Notes

Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.

MQ12 ROUND PLUG CONNECTORS

Connection cables

– M12 - M12

Male
straight

Female
straight

Male
straight

Female
90°

Approvals: 

1 Form		40021		40121	
Type		4-pole		4-pole	
Circuit diagram					
Contact layout					
2 Cable Type		Jacket Color		Jacket Color	
Wire diameter 0.34 mm²		yellow	black	yellow	black
PVC (UL/CSA)		014	614	014	614
PUR (UL/CSA)		034	634	034	634
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 and IP67 when plugged and screwed down (EN 60529)			
Temperature range		-25...+85 °C, depending on cable quality			
Article No.					
The composition of your article number is explained on page 3.1.i		7050 - -			
		1 Form		2 Cable Type	
				3 Cable Length	
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.			

MQ12 ROUND PLUG CONNECTORS

Connection cables

– M12 - M12

Approvals:  

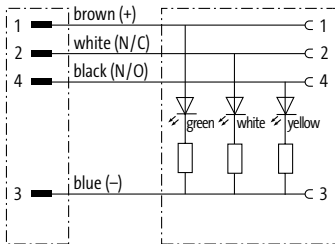
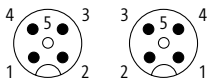
Male

straight

Female

90° with LED



1	Form	40341		
Type		4-pole with 3 × LED (PNP)		
Circuit diagram				
Contact layout		Male Female 		
2	Cable Type	Jacket Color		
Wire diameter 0.34 mm²		yellow	black	
PVC (UL/CSA)		014	614	
PUR (UL/CSA)		034	634	
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 and IP67 when plugged and screwed down (EN 60529)		
Temperature range		-25...+85 °C, depending on cable quality		
Article No.				
The composition of your article number is explained on page 3.1.i		7050 – 40341 – — — — — — — —		
		1 Form 2 Cable Type 3 Cable Length		
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.		

MQ12 ROUND PLUG CONNECTORS

Field-wireable

– M12

– Insulation displacement technology

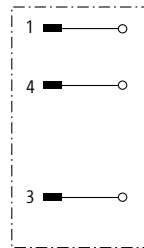
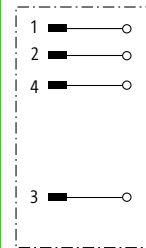
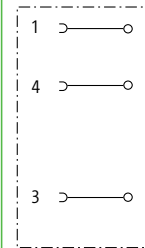
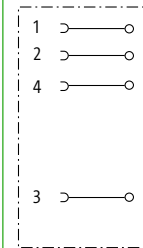
Approvals: 

Male
straight



Female
straight



1	Form	12461	12481	12581	12601
Type		3-pole	4-pole	3-pole	4-pole
Circuit diagram					
Connection cross section		0.25...0.5 mm²			
Contact layout		Male 	Male 	Female 	Female 
Technical Data					
Operating voltage		max. 32 V AC/DC			
Operating current per contact		max. 4 A			
Connection cross section		0.25...0.5 mm² (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			
Protection		IP65 and IP67 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 5 0		0 0 0	0 0 0 0
		1 Form			
Notes		Other versions on request.			

MQ12 ROUND PLUG CONNECTORS

Field-wireable

– M12

– Insulation displacement technology

Approvals: 

Male

straight



Female

straight



1 Form

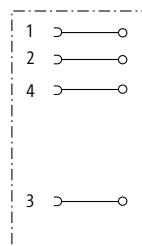
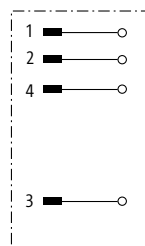
12521

12641

Type
Circuit diagram

4-pole

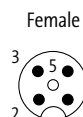
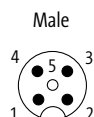
4-pole



Connection cross section

0.5...1.0 mm²

Contact layout



Technical Data

Operating voltage	max. 32 V AC/DC
Operating current per contact	max. 4 A
Connection cross section	0.5...1.0 mm ² (conductor diameter min. 0.1 mm)
Sealing range (cable diameter)	5.5...8 mm
Wire isolation	PVC, PP, TPE
Outer wire diameter	1.6...2.0 mm
Protection	IP65 and IP67 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 5 0

–

–

0 0 0

0 0 0 0

1 Form

Notes

Other versions on request.

MQ12 ROUND PLUG CONNECTORS

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
End fitting accessories			Art-No.
	Tube adapter		
	snap-in for corrugated tube (size 13mm)	Cable diameter (4...7 mm)	7000-99081-0000000

FIELD BUS CONNECTORS

- Wide range of M8, M12 and RJ45 connectors
- 360° shielding
- Flex rated cables

FROM AS INTERFACE TO ETHERNET TO PROFIBUS AND MORE...

Murrelektronik offers connection accessories for the fieldbus products. In addition to both field-wireable M12 and RJ45 connectors we have a wide range of pre-wired, molded models. Both the 15° locking mechanism and the PUR molding ensure an IP65/67 rated connection which make the connectors suitable for many aggressive industrial environments.



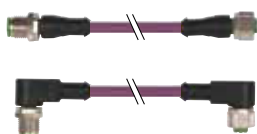
PROFIBUS



With open ended wires

M12 male/female (shielded)
• Straight/90°

Page 3.6.1



Connection Cables

M12 male – M12 female (shielded)
• Straight/90°

Page 3.6.3

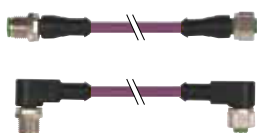
DeviceNet, CANopen



With open ended wires

M12 male/female (shielded)
• Straight/90°

Page 3.6.4

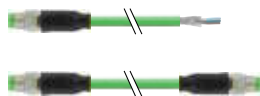


Connection Cables

M12 male – M12 female (shielded)
• Straight/90°

Page 3.6.6

EtherNet, EtherCAT, PROFINET



With open ended wires

M8 male (shielded)

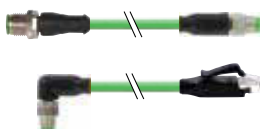
• Straight/90°

Connection Cables

M8 male – M8 male (shielded)

• Straight/90°

Page 3.6.7



Connection Cables

M12 male – M8 male (shielded)

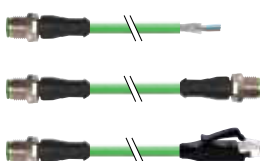
• Straight

Connection Cables

M8 male – RJ45 male (shielded)

• Straight/90°

Page 3.6.9



With open ended wires

M12 male (shielded)

• Straight/90°

Connection Cables

M12 male – M12 male / RJ45 male (shielded)

• Straight/90°

Page 3.6.12



With open ended wires

RJ45 male (shielded)

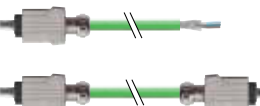
• Straight/90°

Connection Cables

RJ45 male – RJ45 male (shielded)

• Straight/90°

Page 3.6.15



With open ended wires

RJ45 male Push Pull

• Straight

Connection Cables

RJ45 male Push Pull – RJ45 male Push Pull

• Straight

Page 3.6.18

AS Interface



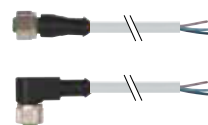
Connection Cables
for MASI68

M12 male – M12 female

• Straight

Page 3.6.21

Cube67, 6-pole

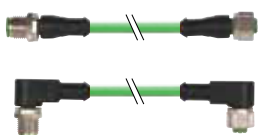


With open ended wires

M12 female

• Straight/90°

Page 3.6.22



Connection Cables

M12 male – M12 female (shielded)

• Straight/90°

Page 3.6.23

NOTES

FIELD BUS CONNECTORS

PROFIBUS

– With open ended wires M12

– shielded, B-coded



Approvals:  

Male

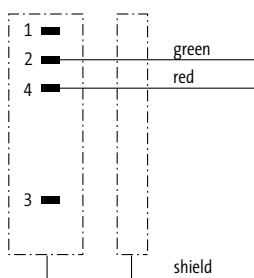
straight



Male

90°



1 Form		14051	14081
Type		2-pole	2-pole
Circuit diagram			
Contact layout			
2 Cable Type		Jacket Color	Jacket Color
1 × 2 × Ø 0.64 mm		violet	violet
PUR (UL/CSA), suitable for C-tracks		841	841
PUR (UL/CSA), Highspeed C-track		840	840
PUR (UL/CSA), Torsion		843	843
PVC (UL/CSA)		850	850
Terminator M12		7000-14041-0000000	
Flange M12, B-coded		7000-44111-0000000	
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	
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)	
Temperature range		-25...+85 °C, depending on cable quality	
Article No.			
The composition of your article number is explained on page 3.1.i		7 0 0 0 - - - - - - - - - -	- - - - -
		1 Form	2 Cable Type
			3 Cable Length
Notes			
		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps. Connection accessories and general accessories can be found at the end of chapter 3.6.	

FIELD BUS CONNECTORS

- PROFIBUS

– With open ended wires M12

– shielded, B-coded

PROFI

BUS

Approvals:

CE

US

PC

ET



1 Form		14061		14071	
Type		2-pole		2-pole	
Circuit diagram					
Contact layout		Female			
2 Cable Type		Jacket Color		Jacket Color	
1 × 2 × Ø 0.64 mm		violet		violet	
PUR (UL/CSA), suitable for C-tracks		841		841	
PUR (UL/CSA), Highspeed C-track		840		840	
PUR (UL/CSA), Torsion		843		843	
PVC (UL/CSA)		850		850	
Terminator M12		7000-14041-0000000			
Flange M12, B-coded		7000-44111-0000000			
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			
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)			
Temperature range		-25...+85 °C, depending on cable quality			
Article No.					
The composition of your article number is explained on page 3.1.i		7000 - ----- - ---- -----			
		1 Form		2 Cable Type	
				3 Cable Length	
Notes					
		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps. Connection accessories and general accessories can be found at the end of chapter 3.6.			

FIELD BUS CONNECTORS

PROFIBUS

– Connection cables M12 - M12

– shielded, B-coded



Approvals:  

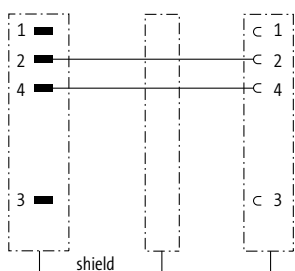
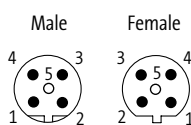
Male
straight

Female
straight

Male
90°

Female
90°



1 Form		44001	44021
Type		2-pole	2-pole
Circuit diagram			
Contact layout			
2 Cable Type		Jacket Color	Jacket Color
1 × 2 × Ø 0.64 mm		violet	violet
PUR (UL/CSA), suitable for C-tracks		841	841
PUR (UL/CSA), Highspeed C-track		840	840
PUR (UL/CSA), Torsion		843	843
PVC (UL/CSA)		850	850
Terminator M12		7000-14041-0000000	
Flange M12, B-coded		7000-44111-0000000	
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. 60 V AC/DC	
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)	
Temperature range		-25...+85 °C, depending on cable quality	
Article No.			
The composition of your article number is explained on page 3.1.i		7 0 0 0 - - - - - - - - - -	- - - - -
		1 Form	2 Cable Type
			3 Cable Length
Notes			
		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps. Connection accessories and general accessories can be found at the end of chapter 3.6.	

FIELD BUS CONNECTORS

DeviceNet, CANopen

– With open ended wires M12

– shielded

DeviceNet CANopen

Approvals:   

Male

straight



Male

90°



1 Form

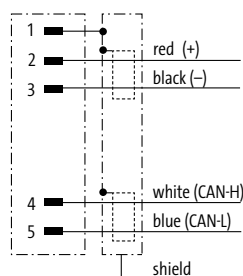
13105

13125

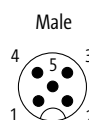
Type
Circuit diagram

5-pole

5-pole



Contact layout



2 Cable Type

Jacket Color

Jacket Color

2x0.25 + 2x0.34 mm²
PUR (UL/CSA), suitable for C-tracks

violet
803

violet
803

Terminator M12

7000-13461-0000000

Control cabinet entry system M12

7000-42111-0000000

3 Cable Length

1.5 m
3.0 m
5.0 m
7.5 m
10.0 m

0150
0300
0500
0750
1000

Technical Data

Operating voltage

max. 60 V AC/DC

Protection

IP65 and IP67 when plugged and screwed down (EN 60529)

Temperature range

-25...+85 °C, depending on cable quality

Article No.

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

7 0 0 0

-

- - - - -

-

- - - - -

- - - - -

1

Form

2

Cable Type

3

Cable Length

Notes

Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.
Connection accessories and general accessories can be found at the end of chapter 3.6.

FIELD BUS CONNECTORS

DeviceNet, CANopen

– With open ended wires M12

– shielded

DeviceNet CANopen

Approvals:   

Female

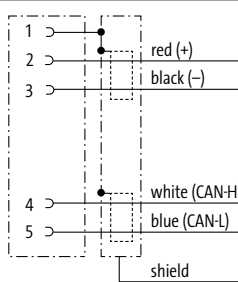
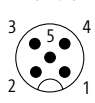
straight



Female

90°



1 Form		13225	13251
Type		5-pole	5-pole
Circuit diagram			
Contact layout	Female 		
2 Cable Type		Jacket Color	Jacket Color
2x0.25 + 2x0.34 mm²		violet	violet
PUR (UL/CSA), suitable for C-tracks		803	803
Terminator M12		7000-13461-0000000	
Control cabinet entry system M12		7000-42111-0000000	
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	
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)	
Temperature range		-25...+85 °C, depending on cable quality	
Article No.			
The composition of your article number is explained on page 3.1.i		7 0 0 0 - - - - - - - - - -	- - - - -
	1 Form	2 Cable Type	3 Cable Length
Notes	Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps. Connection accessories and general accessories can be found at the end of chapter 3.6.		

FIELD BUS CONNECTORS

DeviceNet, CANopen

– Connection cables M12 - M12

– shielded




Approvals:
 



Male

straight

Female

straight



Male

90°

Female

90°



1 Form

40531

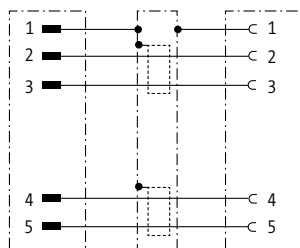
40551

Type

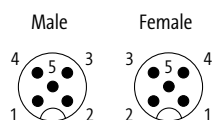
5-pole

5-pole

Circuit diagram



Contact layout



2 Cable Type

Jacket Color

Jacket Color

2x0.25 + 2x0.34 mm²

PUR (UL/CSA), suitable for C-tracks

violet

803

violet

803

Terminator M12

7000-13461-0000000

Control cabinet entry system M12

7000-42111-0000000

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

Protection

IP65 and IP67 when plugged and screwed down (EN 60529)

Temperature range

-25...+85 °C, depending on cable quality

Article No.

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

7 0 0 0

-

-

1

Form

2

Cable Type

3

Cable Length

Notes

Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.
Connection accessories and general accessories can be found at the end of chapter 3.6.

FIELD BUS CONNECTORS

Ethernet CAT 5e

– With open ended wires M8

– shielded

EtherCAT

Approvals:  

Male

straight



Male

90°



1 Form		08811		08821	
Type		4-pole		4-pole	
Circuit diagram		1 2 4 3 yellow (TD+) white (RD+) orange (TD-) blue (RD-) Shield			
Contact layout		Male 2 4 1 3			
2 Cable Type		Jacket Color		Jacket Color	
Wire diameter 0.15 mm²		green		green	
PUR (UL/CSA)		791		791	
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		30 V AC/DC			
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)			
Temperature range		-25...+85 °C, depending on cable quality			
Article No.					
The composition of your article number is explained on page 3.1.i		7 0 0 0 - -			
		1 Form		2 Cable Type	
				3 Cable Length	
Notes					
		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps. Connection accessories and general accessories can be found at the end of chapter 3.6.			

FIELD BUS CONNECTORS

Ethernet CAT 5e

– Connection cables M8 - M8

– shielded

EtherCAT. 

Male

straight

Male

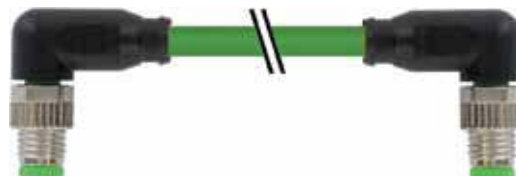
straight

Male

90°

Male

90°



1 Form

89701

89771

Approvals

GOST

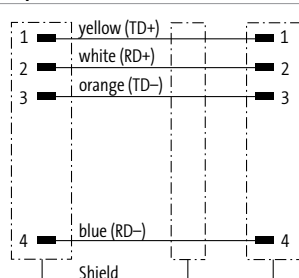
cCSAus

Type

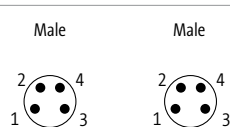
4-pole

4-pole

Circuit diagram



Contact layout



2 Cable Type

Jacket Color

Jacket Color

Wire diameter 0.15 mm²

green

green

PUR (UL/CSA)

791

791

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

30 V AC/DC

Protection

IP65 and IP67 when plugged and screwed down (EN 60529)

Temperature range

-25...+85 °C, depending on cable quality

Article No.

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

7 0 0 0

-

-

1

Form

2

Cable Type

3

Cable Length

Notes

Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.
Connection accessories and general accessories can be found at the end of chapter 3.6.

FIELD BUS CONNECTORS

Ethernet CAT 5e

– Connection cables

– shielded

EtherCAT

Male M12

straight

Male M8

straight

Male M8

90°

Male RJ45

straight



1 Form

44901

89781

Approvals

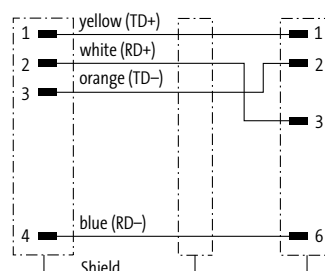
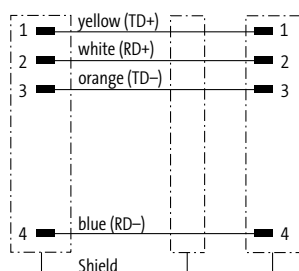
cCSAus, GOST

Type

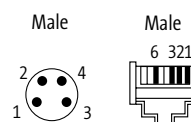
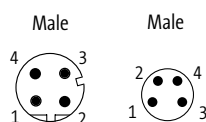
4-pole

4-pole

Circuit diagram



Contact layout



2 Cable Type

Jacket Color

Jacket Color

Wire diameter 0.15 mm²

PUR (UL/CSA)

green

791

green

791

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

30 V AC/DC

Protection

IP65 and IP67 when plugged and screwed down (EN 60529)

IP65, IP67 (M8) - IP20 (RJ45)

Temperature range

-25...+85 °C, depending on cable quality

-20...+80 °C, depending on cable quality

Article No.

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

7 0 0 0

1 Form

2 Cable Type

3 Cable Length

Notes

Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.
Connection accessories and general accessories can be found at the end of chapter 3.6.

FIELD BUS CONNECTORS

Power cable

– With open ended wires M8

– EtherCat Power

Approvals:  

Female

straight



Female

90°



1 Form

08871

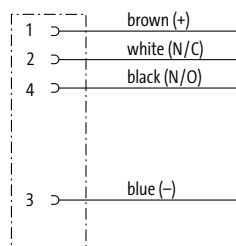
08881

Type

4-pole

4-pole

Circuit diagram



Contact layout

Female



2 Cable Type

Jacket Color

Jacket Color

Wire diameter 0.34 mm²

black

black

PUR (UL/CSA)

634

634

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. 30 V AC/DC

Protection

IP65 and IP67 when plugged and screwed down (EN 60529)

Temperature range

-25...+85 °C, depending on cable quality

Article No.

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

7 0 0 0

-

-

1 Form

2 Cable Type

3 Cable Length

Notes

Other versions on request.

FIELD BUS CONNECTORS

Power cable

– Connection cables M8 - M8

– EtherCat Power

Approvals:

Male

straight

Female

straight

Male

90°

Female

90°



1 Form

89401

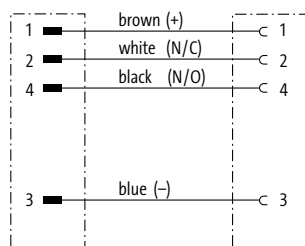
89431

Type

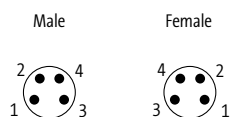
4-pole

4-pole

Circuit diagram



Contact layout



2 Cable Type

Jacket Color

Jacket Color

Wire diameter 0.34 mm²
PUR (UL/CSA)

black
634

black
634

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. 30 V AC/DC
Protection	IP65 and IP67 when plugged and screwed down (EN 60529)
Temperature range	-25...+85 °C, depending on cable quality

Article No.

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

7 0 0 0

1 Form

2 Cable Type

3 Cable Length

Notes

Other versions on request.

FIELD BUS CONNECTORS

Ethernet CAT 5e

– With open ended wires M12

– shielded, D-coded (M12)



Male

straight



Male

90°



1 Form

14541

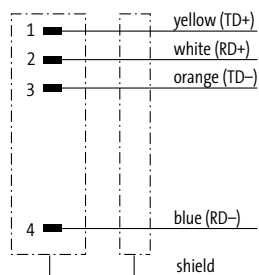
14561

Type

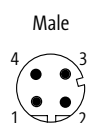
4-pole

4-pole

Circuit diagram



Contact layout



2 Cable Type

Jacket Color

Jacket Color

Wire diameter 0.34 mm²

PUR (UL/CSA)

PUR (UL/CSA), Torsion

PUR (UL/CSA), suitable for C-tracks

green

violet

794

793

796

794

793

798

green

violet

794

793

796

794

793

798

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

60 V DC

Protection

IP65 and IP67 when plugged and screwed down (EN 60529)

Temperature range

-25...+85 °C, depending on cable quality

Article No.

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

7 0 0 0

-

-

1

Form

2

Cable Type

3

Cable Length

Notes

Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.
Connection accessories and general accessories can be found at the end of chapter 3.6.

FIELDBUS CONNECTORS

Ethernet CAT 5e

– Connection cables M12 - M12

– shielded, D-coded

EtherNet/IP[®] conformance tested EtherCAT[®]

PROFI[®]
NET

Approvals:  

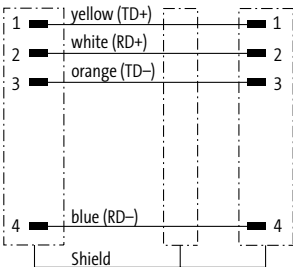
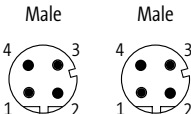
Male
straight

Male
straight

Male
90°

Male
90°



1	Form	44511			44561		
	Type	4-pole			4-pole		
	Circuit diagram						
	Contact layout						
2	Cable Type	Jacket Color			Jacket Color		
	Wire diameter 0.34 mm²		green	violet		green	violet
	PUR (UL/CSA)		794			794	
	PUR (UL/CSA), Torsion		793			793	
	PUR (UL/CSA), suitable for C-tracks		796	798		796	798
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	60 V DC					
	Protection	IP65 and IP67 when plugged and screwed down (EN 60529)					
	Temperature range	-25...+85 °C, depending on cable quality					
	Article No.						
	The composition of your article number is explained on page 3.1.i	7000 - -					
		1 Form		2 Cable Type		3 Cable Length	
	Notes	Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps. Connection accessories and general accessories can be found at the end of chapter 3.6.					

FIELD BUS CONNECTORS

Ethernet CAT 5e

– Connection cables

– shielded, D-coded (M12)

EtherNet[√]IP[™] conformance tested EtherCAT[®]

PROFINET[®]

Approvals: 

Male M12

straight

Male RJ45

straight

Male M12

straight

Male RJ45

45° on bottom



1 Form

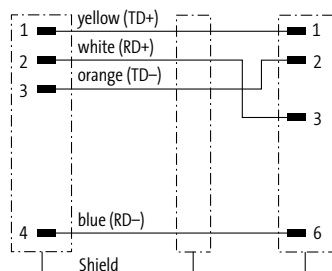
Type
Circuit diagram

4 4 7 1 1

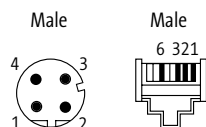
4-pole

4 4 7 3 1

4-pole



Contact layout



2 Cable Type

Wire diameter 0.34 mm²
PUR (UL/CSA)
PUR (UL/CSA), Torsion
PUR (UL/CSA), suitable for C-tracks

Jacket Color

green	violet
794	
793	
796	798

Jacket Color

green	violet
794	
793	
796	798

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	60 V DC
Protection	IP65, IP67 (M12) - IP20 (RJ45)
Temperature range	-25...+85 °C, depending on cable quality
	-25...+70 °C

Article No.

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

7 0 0 0

1 Form

2 Cable Type

3 Cable Length

Notes

Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.
Connection accessories and general accessories can be found at the end of chapter 3.6.

FIELDBUS CONNECTORS

Ethernet CAT 5e

- with open ended wires RJ45
- shielded

EtherNet/IP[®]
conformance tested
EtherCAT[®]
PROFINET[®]
Approvals: 

Male
straight

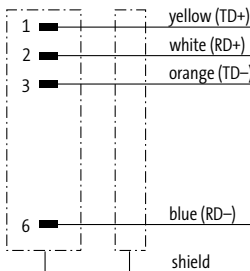
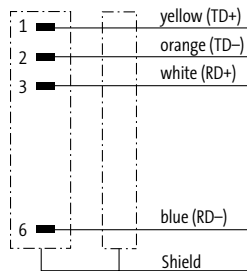


Male
45° on top



Male
on bottom



1	Form	74101			74121			74141											
	Type	4-pole			4-pole			4-pole											
	Circuit diagram																		
	Contact layout																		
2	Cable Type	Jacket Color			Jacket Color			Jacket Color											
	Wire diameter 0.34 mm²		green	violet		green	violet		green	violet									
	PUR (UL/CSA)		794			794			794										
	PUR (UL/CSA), Torsion		793			793			793										
	PUR (UL/CSA), suitable for C-tracks		796	798		796	798		796	798									
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	60 V DC																		
Protection	IP20																		
Temperature range	-25...+85 °C, depending on cable quality																		
Article No.																			
The composition of your article number is explained on page 3.1.i		7 0 0 0			-	-			-										
		1			Form			2			Cable Type			3			Cable Length		
Notes																			
		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps. Connection accessories and general accessories can be found at the end of chapter 3.6.																	

FIELD BUS CONNECTORS

Ethernet CAT 5e

- with open ended wires RJ45
- shielded



1	Form	74161			74181		
	Type	4-pole			4-pole		
	Circuit diagram	1 2 3 6 yellow (TD+) orange (TD-) white (RD+) blue (RD-) Shield					
	Contact layout	Male 6 321					
2	Cable Type	Jacket Color			Jacket Color		
	Wire diameter 0.34 mm²		green	violet		green	violet
	PUR (UL/CSA)		794			794	
	PUR (UL/CSA), Torsion		793			793	
	PUR (UL/CSA), suitable for C-tracks		796	798		796	798
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		60 V DC					
Protection		IP20					
Temperature range		-25...+85 °C, depending on cable quality					
Article No.							
The composition of your article number is explained on page 3.1.i		7 0 0 0 - -					
		1 Form		2 Cable Type		3 Cable Length	
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps. Connection accessories and general accessories can be found at the end of chapter 3.6.					

FIELD BUS CONNECTORS

Ethernet CAT 5e

– with open ended wires RJ45

– shielded

EtherNet/IP[®] conformance tested EtherCAT[®]

PROFI[®] NET[®]
Approvals:

Male RJ45

straight

Male RJ45

straight

Male RJ45

45° on bottom

Male RJ45

45° right



1 Form

74301

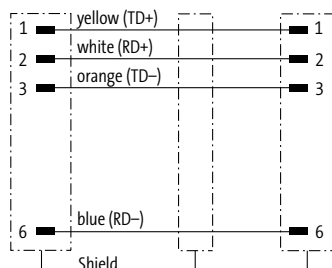
74521

Type

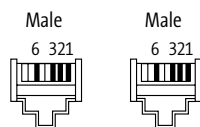
4-pole

4-pole

Circuit diagram



Contact layout



2 Cable Type

Jacket Color

Jacket Color

Wire diameter 0.34 mm²

PUR (UL/CSA)

PUR (UL/CSA), Torsion

PUR (UL/CSA), suitable for C-tracks

green

violet

green

violet

794

794

793

793

796

798

796

798

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

60 V DC

Protection

IP20

Temperature range

-25...+85 °C, depending on cable quality

Article No.

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

7 0 0 0

-

-

1 Form

2 Cable Type

3 Cable Length

Notes

Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.
Connection accessories and general accessories can be found at the end of chapter 3.6.

FIELD BUS CONNECTORS

Ethernet CAT 5e

– Push Pull

– AIDA-conform



Male RJ45

straight



1	Form	74601		
	Type	4-pole		
	Circuit diagram			
	Contact layout	Male 		
2	Cable Type	Jacket Color		
	Wire diameter 0.34 mm²		green	
	PUR (UL/CSA)		794	
	PUR (UL/CSA), suitable for C-tracks		796	
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 DC		
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)		
Temperature range		-40...+70 °C, depending on cable quality		
Article No.				
The composition of your article number is explained on page 3.1.i		7 0 0 0	- 7 4 6 0 1 -	_____
			1 Form	2 Cable Type
				3 Cable Length
Notes				
		Other versions on request. Further cable lengths on request. Connection accessories and general accessories can be found at the end of chapter 3.6.		

FIELDBUS CONNECTORS

Ethernet CAT 5e

– Push Pull

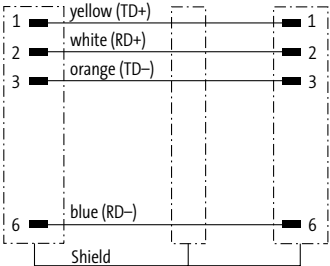
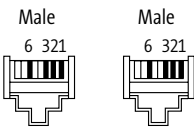
– AIDA-conform



Male RJ45
straight

Male RJ45
straight



1 Form		74641	
Type		4-pole	
Circuit diagram			
Contact layout			
2 Cable Type		Jacket Color	
Wire diameter 0.34 mm²		green	
PUR (UL/CSA)		794	
PUR (UL/CSA), suitable for C-tracks		796	
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 DC	
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)	
Temperature range		-40...+70 °C, depending on cable quality	
Article No.			
The composition of your article number is explained on page 3.1.i		7000 - 74641 -	
		1 Form	2 Cable Type
			3 Cable Length
Notes		Other versions on request. Further cable lengths on request. Connection accessories and general accessories can be found at the end of chapter 3.6.	

FIELDBUS CONNECTORS

Power plug

– Push Pull

Power (male)

straight



Power (male)

straight



Power (male)

straight

1 Form

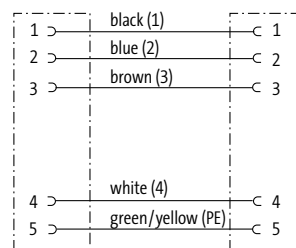
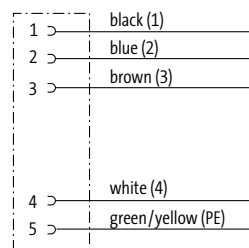
99621

99641

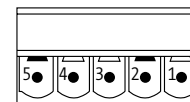
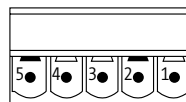
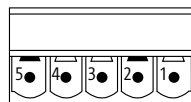
Type Circuit diagram

5-pole

5-pole



Contact layout



2 Cable Type

Jacket Color

Jacket Color

Wire diameter 2.5 mm²
PUR (UL/CSA)

gray
962

gray
962

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. 24 V AC/DC
Protection	IP65 and IP67 when plugged and screwed down (EN 60529)
Temperature range	-40...+70 °C, depending on cable quality

Article No.

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

7 0 0 0

–

–

–

–

–

1 Form

2 Cable Type

3 Cable Length

Notes

Other versions on request. Further cable lengths on request.
Connection accessories and general accessories can be found at the end of chapter 3.6.

FIELDBUS CONNECTORS

Cube67, 6-pole

– With open ended wires M12

– Actuator supply external

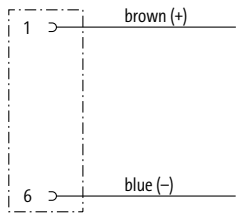
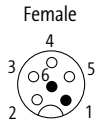
Approvals: 

Female
straight



Female
90°



1 Form		15001	15021
Type		2-pole	2-pole
Circuit diagram			
Contact layout	Female 		
2 Cable Type		Jacket Color	
Wire diameter 0.5 mm² PUR (UL/CSA)		gray 414	gray 414
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. 30 V AC/DC	
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)	
Temperature range		-25...+85 °C, depending on cable quality	
Article No.			
The composition of your article number is explained on page 3.1.i		7 0 0 0 - - - - -	
		1 Form	2 Cable Type
		3 Cable Length	
Notes			
		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps. Connection accessories and general accessories can be found at the end of chapter 3.6.	

FIELD BUS CONNECTORS

Cube67, 6-pole

- Connection cables M12 - M12
- shielded
- Hybrid cable for communication and supply

Approvals:   

Male
straight



Female
straight

Male
90°

Female
90°

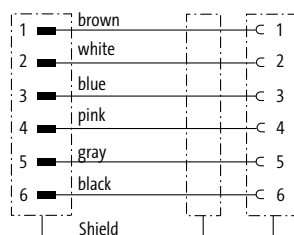


1 Form

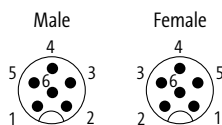
46041

46061

Type
Circuit diagram



Contact layout



2 Cable Type

Jacket Color

Jacket Color

4x0.5 + 2x0.25 mm²
PUR (UL/CSA)

green
802

green
802

Terminator M12

7000-15041-0000000

Control cabinet entry system M12

7000-46111-0000000

T-coupler M12/M12, female/male

7000-46101-0000000

3 Cable Length

0.15 m

0015

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. 30 V AC/DC

Protection

IP65 and IP67 when plugged and screwed down (EN 60529)

Temperature range

-25...+85 °C, depending on cable quality

Article No.

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

7 0 0 0

-

-

1

Form

2

Cable Type

3

Cable Length

Notes

Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.
Connection accessories and general accessories can be found at the end of chapter 3.6.

FIELD BUS CONNECTORS

AS-Interface

– Connection cables M12 - M12

– for MASI68



Approvals: 

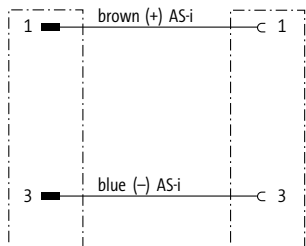
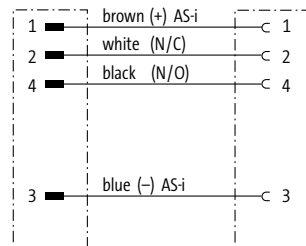
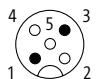
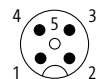
Male

straight

Female

straight



1 Form		40005	40021
Type		2-pole	4-pole
Circuit diagram			
Contact layout		Male  Female 	Male  Female 
2 Cable Type		Jacket Color	
Wire diameter 1.5 mm ² PUR (UL/CSA)		gray 588	gray
Wire diameter 0.75 mm ² PUR (UL/CSA), suitable for C-tracks			862
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 and IP67 when plugged and screwed down (EN 60529)	
Temperature range		-25...+85 °C, depending on cable quality	
Article No.			
The composition of your article number is explained on page 3.1.i		7 0 6 0 - - - - -	
		1 Form	2 Cable Type
			3 Cable Length
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps. Connection accessories and general accessories can be found at the end of chapter 3.6.	

FIELDBUS CONNECTORS

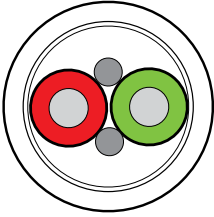
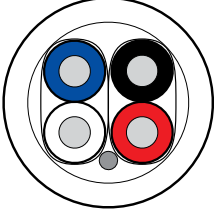
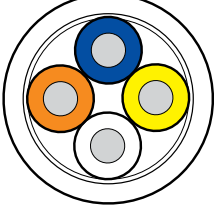
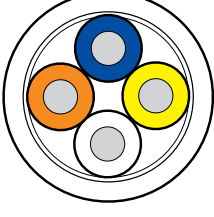
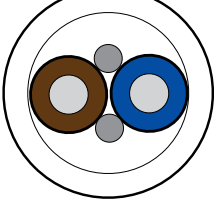
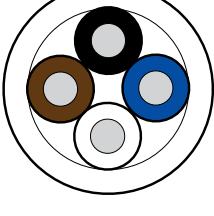
Connection accessories			Art-No.
	T-coupler M12/M12, female/male straight, A-coded, 6-pole, shielded	Cube67 additional actuator power supply	7000-46101-0000000
	straight, A-coded, 4-pole	MASI68 additional actuator power supply	7060-42701-0000000
	Male M12, field-wireable, screw terminals straight, B-coded, 5-pole, shielded	PROFIBUS, Interbus Cable diameter (6...8 mm)	7000-14001-0000000
	Female M12, field-wireable, screw terminals straight, B-coded, 5-pole, shielded	PROFIBUS, Interbus Cable diameter (6...8 mm)	7000-14021-0000000
	Male M12, field-wireable, screw terminals 90°, B-coded, 5-pole, shielded	PROFIBUS, Interbus Cable diameter (6...8 mm)	7000-14011-0000000
	90°, D-coded, 4-pole, shielded	Ethernet CAT 5 Cable diameter (6...8 mm)	7000-14581-0000000
	Female M12, field-wireable, screw terminals 90°, B-coded, 5-pole, shielded	PROFIBUS, Interbus Cable diameter (6...8 mm)	7000-14031-0000000
	Male M12, field-wireable, IDC terminals straight, B-coded, 3-pole, shielded	PROFIBUS Cable diameter (7...8.8 mm)	7000-14201-0000000
	straight, D-coded, 4-pole, shielded	Ethernet CAT 5 Cable diameter (5.5...7.2 mm)	7000-14521-0000000
	Female M12, field-wireable, IDC terminals straight, B-coded, 3-pole, shielded	PROFIBUS Cable diameter (7...8.8 mm)	7000-14221-0000000
	straight, D-coded, 4-pole, shielded	Ethernet CAT 5 Cable diameter (5.5...7.2 mm)	7000-14621-0000000
	Male M12, field-wireable, screw terminals straight, A-coded, 5-pole	DeviceNet, CANopen Cable diameter (6...8 mm)	7000-12761-0000000

FIELD BUS CONNECTORS

Connection accessories			Art-No.
	Female M12, field-wireable, screw terminals straight, A-coded, 5-pole	DeviceNet, CANopen Cable diameter (6...8 mm)	7000-12961-0000000
	Male M12, field-wireable, screw terminals 90°, A-coded, 5-pole	DeviceNet, CANopen Cable diameter (6...8 mm)	7000-12881-0000000
	Female M12, field-wireable, screw terminals 90°, A-coded, 5-pole	DeviceNet, CANopen Cable diameter (6...8 mm)	7000-13041-0000000
	Male RJ45, CAT 5, field-wireable, IDC terminals straight, IP20, 4-pole, shielded	Ethernet CAT 5 Cable diameter (6.5...6.9 mm)	7000-99051-0000000
	Adapter M12/RJ45, CAT 5 female/female 90°, D-coded, 4-pole	Ethernet CAT 5	7000-99052-0000000
	Terminator M12 straight, A-coded, 5-pole	DeviceNet, CANopen	7000-13461-0000000
	straight, B-coded, 4-pole	PROFIBUS	7000-14041-0000000
	straight, A-coded, 6-pole	Cube67	7000-15041-0000000
	Terminator 7/8" straight, screw fixing, 5-pole	DeviceNet, CANopen	7000-78301-0000000

FIELDBUS CONNECTORS

Connection accessories			Art-No.
	Control cabinet entry system M12 straight, A-coded, 5-pole	DeviceNet, CANopen shielded	7000-42111-0000000
	straight, B-coded, 5-pole	PROFIBUS, Interbus shielded	7000-44111-0000000
	straight, D-coded, 4-pole, shielded (female/female)	Ethernet CAT 5	7000-44611-0000000
	straight, A-coded, 6-pole, shielded	Cube67	7000-46111-0000000
	Flange M12 male, pre-wired 0.2 m straight, B-coded, 5-pole	PROFIBUS, Interbus	7000-14121-9750020
	A-coded, 5-pole	DeviceNet, CANopen	7000-13521-9720020
	Flange M12 female, pre-wired 0.2 m straight, B-coded, 5-pole	PROFIBUS, Interbus	7000-14161-9750020
	A-coded, 5-pole	DeviceNet, CANopen	7000-13561-9720020
	Flange M12 female, CAT 5, pre-wired 0.2 m straight, D-coded, 4-pole, shielded	Ethernet CAT 5	7000-14501-9760020
	Push Pull Power connector, spring clamp terminals straight, 5-pole	PROFINET IO Cable diameter (9...13 mm)	7000-99601-0000000
	Push Pull RJ45 data connector, IDC terminals straight, 4-pole	PROFINET IO Cable diameter (5...8 mm)	7000-99611-0000000
	Push Pull SCRJ POF male, field-wireable straight, IP65/67, for POF 1 mm	PROFINET IO, cable diameter 6.5...9.5 mm	7000-99701-0000000

Connection accessories			Art-No.
	Cable drum (100 m) 1 × 2 × Ø 0.64 mm, (violet) Suitable for C-tracks	PROFIBUS	7000-C0201-8400000
	Cable drum (100 m) 2×0.25 + 2×0.34 mm², violet Suitable for C-tracks	DeviceNet, CANopen	7000-C0201-8030000
	Cable drum (100 m) 2 × 2 × 0.34 mm², green Suitable for C-tracks	Ethernet CAT 5, PROFINET IO, EtherCAT	7000-C0201-7960000
	Cable drum (100 m) 2 × 2 × 0.34 mm², violet Suitable for C-tracks	Ethernet CAT 5, PROFINET IO, EtherCAT	7000-C0201-7980000
	Cable drum (100 m) 2 × 1.5 mm², gray	AS-Interface, MASI68	7000-C0201-5880000
	Cable drum (100 m) 4 × 0.75 mm², gray	AS-Interface, MASI68	7000-C0201-8620000
	Bus Connection Plug 90° SUB-D9 (female), screw terminals SUB-D9 (male), screw terminals	CANopen PROFIBUS	55760 55762

FIELDBUS CONNECTORS

Connection accessories			Art-No.
	Bus Connection Plug 180°		
	SUB-D9 (male), cut clamps, flexible cable	PROFIBUS	55583
	SUB-D9 (male), cut clamps, rigid cable	PROFIBUS	55584
	Bus Connection Plug 90°		
	SUB-D9 (male), cut clamps, rigid cable	PROFIBUS	55585
	SUB-D9 (male), cut clamps, flexible cable	PROFIBUS	55587
	Bus Connection Plug 90°		
	SUB-D9 (male), cut clamps, rigid cable, programming device conn.	PROFIBUS	55586
	SUB-D9 (male), cut clamps, flexible cable, programming device conn.	PROFIBUS	55588
	Bus Connection Plug 90°		
	SUB-D9 (male); M12 × 1, B-coded	PROFIBUS	7000-99441-0000000
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

FIELDBUS CONNECTORS

Mounting accessories			Art-No.
	Torque wrench set		
	M12 (0.6 Nm, AF13)	M12 Round Plug Connectors	7000-99102-0000000
End fitting accessories			Art-No.
	Tube adapter		
	snap-in for corrugated tube (size 13mm)	Cable diameter (4...7 mm)	7000-99081-0000000

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:

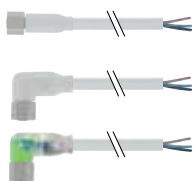
- System solutions
- Comprehensive diagnostic options
- Vibration-proof products
- Excellent logistics for fast deliveries
- Specialists with industry-specific knowledge

ECOLAB®



STAINLESS STEEL

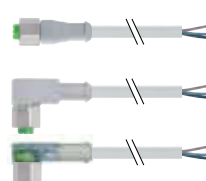
With Open Ended Wires



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



M12 male
• Straight

M12 female
• Straight
• 90°
• 90° with LED

Page 3.7.11



M12 Steel male
• Straight

M12 Steel female
• Straight

Page 3.7.13

Field-Wireable



Insulation Displacement Technology

M12 male
• Straight
M12 female
• Straight
• 90°

Page 3.7.14



Screw Terminals

M12 male/female
• Straight
• 90°

Page 3.7.15

NOTES

PLUG CONNECTORS FOR FOOD & BEVERAGE

Open ended wires

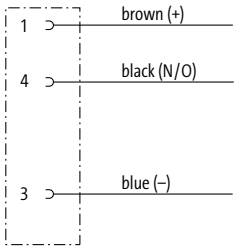
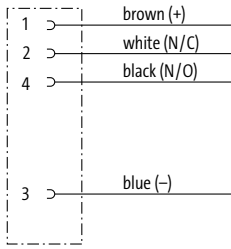
– M8

– Stainless Steel 1.4404 (V4A)

Approvals: 

Female
straight



1 Form		08041	08061
Type		3-pole	4-pole
Circuit diagram			
Contact layout		Female 	Female 
2 Cable Type		Jacket Color	
Wire diameter 0.25 mm²		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		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

Open ended wires

– M8

– Stainless Steel 1.4404 (V4A)

Approvals: 

Female

90°



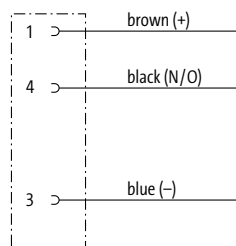
1 Form

08081

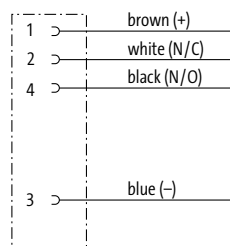
08101

Type
Circuit diagram

3-pole



4-pole



Contact layout

Female



Female



2 Cable Type

Jacket Color

Jacket Color

Wire diameter 0.25 mm²
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

7 0 1 4

–

–

–

–

–

1 Form

2 Cable Type

3 Cable Length

Notes

Other versions on request. Further cable lengths on request.

Approvals:  **ECOLAB**

A diagram of a network cable. On the left, there is a green RJ45 connector. The cable is grey. In the middle of the cable, there is a break symbol consisting of two parallel diagonal lines. On the right, the cable ends in four colored wires: blue, orange, green, and brown.

Plug Connectors for Food & Beverage

PLUG CONNECTORS FOR FOOD & BEVERAGE

Open ended wires

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

Approvals: 

Female
straight



Female
90°



1 Form

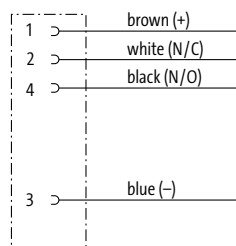
1 2 2 2 1

1 2 3 4 1

Type
Circuit diagram

4-pole

4-pole



Contact layout

Female



2 Cable Type

Jacket Color

Jacket Color

Wire diameter 0.34 mm²
PVC (UL/CSA)

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	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

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

Open ended wires

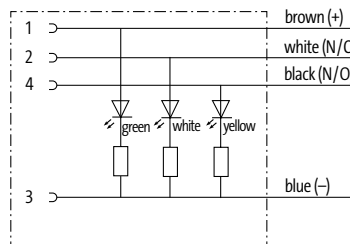
- M12
- Stainless Steel 1.4404 (V4A)
- Profile gasket

Approvals: 

Female

90° with LED



1 Form		1 2 4 2 1	
Type	4-pole with 3 × LED (PNP) (NPN) on request		
Circuit diagram			
Contact layout	Female 		
2 Cable Type		Jacket Color	
Wire diameter 0.34 mm² 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		7014 - 12421 -	
		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

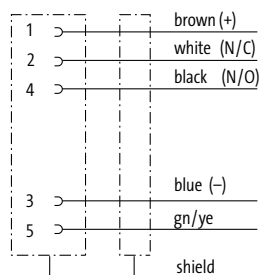
13 2 2 1

13 2 8 1

Type
Circuit diagram

5-pole

5-pole



Contact layout

Female



2 Cable Type

Jacket Color

Jacket Color

Wire diameter 0.34 mm²

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

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.

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

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

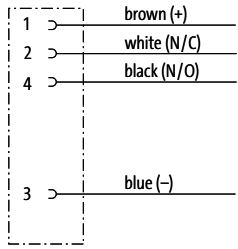
Open ended wires

- M12-Steel
- Stainless Steel 1.4404 (V4A)

Approvals:   

Female
straight



1 Form		1 2 2 2 1	
Type		4-pole	
Circuit diagram			
Contact layout		Female 	
2 Cable Type		Jacket Color	
Wire diameter 0.34 mm²		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

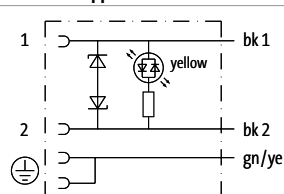
18021

Type

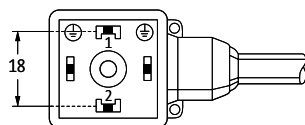
24 V AC/DC

LED and suppression

Circuit diagram



Contact layout



2 Cable Type

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: 

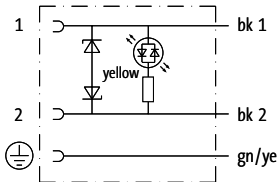
Form B (10 mm)



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	
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	
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 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

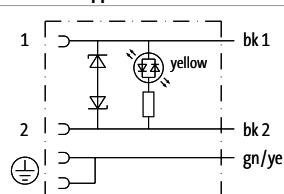
94021

Type

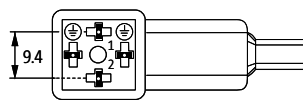
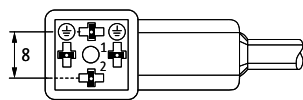
24 V AC/DC

24 V AC/DC

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

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

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		1 2 4 brown (+) white (N/C) black (N/O) 1 2 4 3 blue (-) 3			
Contact layout		Male Female 4 5 3 1 2 3 5 4 2 1			
2 Cable Type		Jacket Color		Jacket Color	
Wire diameter 0.34 mm²		gray		gray	
PVC (UL/CSA)		214		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		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

Connection cables

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

Approvals: 

Male

straight

Female

90° with LED



1 Form

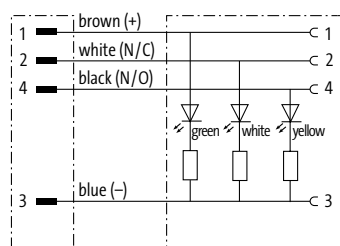
40341

Type

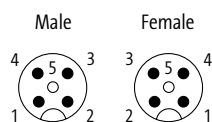
4-pole with 3 × LED (PNP)

(NPN) on request

Circuit diagram



Contact layout



2 Cable Type

Jacket Color

Wire diameter 0.34 mm²

gray

PVC (UL/CSA)

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	1 2 4 3 brown (+) white (N/C) black (N/O) blue (-) 1 2 4 3		
Contact layout	Male Female 4 5 3 1 2 3 5 4 2 1		
2 Cable Type		Jacket Color	
Wire diameter 0.34 mm²		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		7 0 4 4 - 4 0 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

Field-wireable

– M12

– Insulation displacement technology

– Stainless Steel 1.4305 (V2A)

Male

straight



Female

straight



Female

90°



1

Form

12481

12601

12681

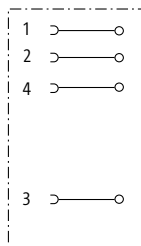
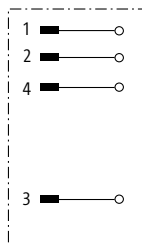
Type

4-pole

4-pole

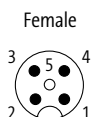
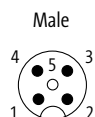
4-pole

Circuit diagram



Connection cross section

Contact layout



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

7 0 0 2

–

–

0 0 0

0 0 0 0

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	5-pole
Circuit diagram	1  2  4  3  5 	1  2  4  3  5 			
Sealing range (cable diameter)	6...8 mm				
Contact layout	Male 4 3 5 1 2	Female 3 4 5 2 1			
Technical Data					
Operating voltage	max. 125 V AC/DC				
Operating current per contact	max. 4 A				
Connection cross section	max. 0.75 mm²				
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	7 0 0 4 - - 0 0 0 0 0 0 0				
	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

M23 ROUND PLUG CONNECTORS MADE FOR DISTRIBUTION BOXES

- Highly resistant, halogen-free molding
- Safely sealed – acc. to IP67
- Reliable – 100 % tested

COMPACT CONNECTOR FOR SAFE SIGNAL TRANSFER

Murrelektronik's M23 connectors are specially designed for distribution systems with M23 connections. They ensure a safe signal transfer from the distribution box to the control cabinet and a safe power supply to the distributor as well as the sensors and actuators connected to it.

With Open Ended Wires



M23 female, 12-pole

- Straight/90°
- For unshielded distribution boxes

Page 3.8.1



M23 female, 19-pole

- Straight/90°
- For unshielded distribution boxes

Page 3.8.2



M23 female, 12- and 19-pole

- Straight
- For shielded distribution boxes

Page 3.8.3

Field-Wireable



With solder connection

M23 female, 12- and 19-pole

- Straight/90°
- For unshielded distribution boxes

Page 3.8.4

M23 ROUND PLUG CONNECTORS

Open ended wires

– 12-pole

Female

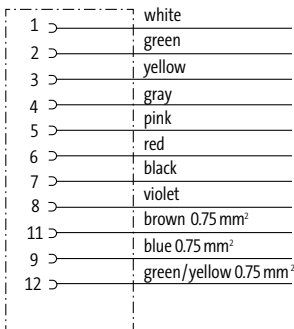
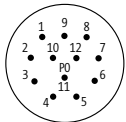
straight



Female

90°



1 Form		23051	23151
Type		11-pole used for 8-way distribution box, 4-pole	11-pole used for 8-way distribution box, 4-pole
Circuit diagram			
Contact layout		Female 	
2 Cable Type		Jacket Color – No./diameter of wires	
PUR/PVC		gray 362 – 8 × 0.34 + 3 × 0.75 mm²	gray 362 – 8 × 0.34 + 3 × 0.75 mm²
3 Cable Length			
5.0 m		0500	
10.0 m		1000	
15.0 m		1500	
Technical Data			
Operating voltage		max. 125 V AC/DC	
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)	
Temperature range		-25...+85 °C, depending on cable quality	
Article No.			
The composition of your article number is explained on page 3.1.i		7 0 0 0 – – – – – – – – – – –	
		1 Form	2 Cable Type
		3 Cable Length	
Notes		Other versions on request.	

M23 ROUND PLUG CONNECTORS

Open ended wires

– 19-pole

Female

straight



Female

90°



1 Form

23251

23351

Type

19-pole used

19-pole used

Circuit diagram

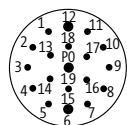
for 8-way distribution boxes, 5-pole

for 8-way distribution boxes, 5-pole

15	white
7	gray/pink
5	green
4	red/blue
	yellow
16	white/green
8	gray
3	brown/green
14	pink
17	white/yellow
9	red
2	yellow/brown
13	black
11	white/gray
10	violet
1	gray/brown
18	brown 1.0mm ²
19	blue 1.0mm ²
6	green/yellow 1.0mm ²
12	

Contact layout

Female



2 Cable Type

Jacket Color – No./diameter of wires

PUR/PVC

gray

gray

PUR (UL/CSA)

398 – 16 × 0.34 + 3 × 0.75 mm²

398 – 16 × 0.34 + 3 × 0.75 mm²

452 – 16 × 0.5 + 3 × 1.0 mm²

452 – 16 × 0.5 + 3 × 1.0 mm²

3 Cable Length

5.0 m

0500

10.0 m

1000

15.0 m

1500

Technical Data

Operating voltage

max. 125 V AC/DC

Protection

IP65 and IP67 when plugged and screwed down (EN 60529)

Temperature range

-25...+85 °C, depending on cable quality

Article No.

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

7 0 0 0

–

–

–

–

–

1 Form

2 Cable Type

3 Cable Length

Notes

Other versions on request.

M23 ROUND PLUG CONNECTORS

Open ended wires

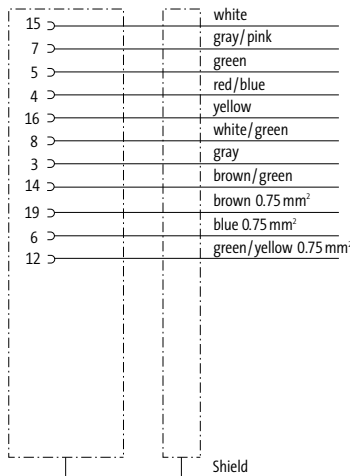
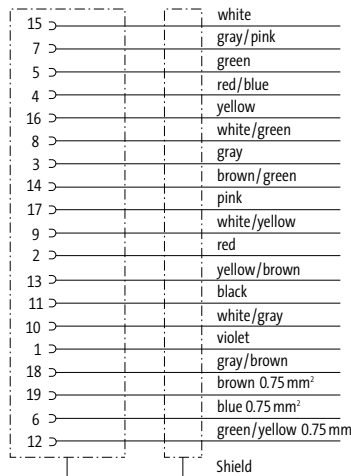
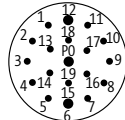
– 19-pole

– shielded

Female

straight



1 Form		23711	23751
Type		11-pole used for 4-way distribution boxes, 5-pole	19-pole used for 8-way distribution boxes, 5-pole
Circuit diagram			
Contact layout		Female 	
2 Cable Type		Jacket Color – No./diameter of wires	
PUR (UL/CSA)		gray 373 – 8 × 0.34 + 3 × 0.75 mm ²	gray 401 – 16 × 0.34 + 3 × 0.75 mm ²
3 Cable Length			
5.0 m		0500	
10.0 m		1000	
15.0 m		1500	
Technical Data			
Operating voltage		max. 125 V AC/DC	
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)	
Temperature range		-25...+85 °C, depending on cable quality	
Article No.			
The composition of your article number is explained on page 3.1.i		7 0 0 0 1 Form	
		2 Cable Type	
		3 Cable Length	
Notes		Other versions on request.	

M23 ROUND PLUG CONNECTORS

Field-wireable

– 12-pole or 19-pole

– Solder connection

Female

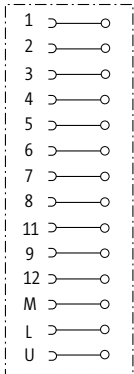
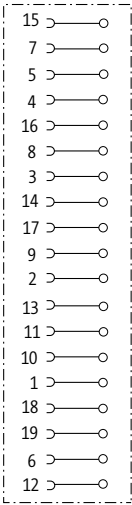
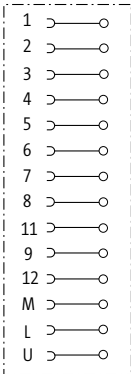
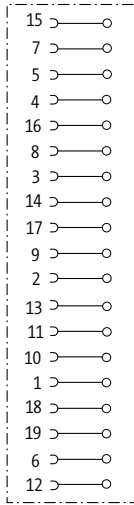
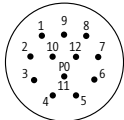
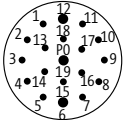
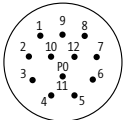
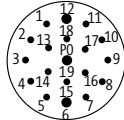
straight



Female

90°



1	Form	23061	23261	23161	23361
Type		12-pole	19-pole	12-pole	19-pole
		for 4...8-way distribution boxes, 4-pole	for 4...8-way distribution boxes, 5-pole	for 4...8-way distribution boxes, 4-pole	for 4...8-way distribution boxes, 5-pole
Circuit diagram					
Contact layout		Female 	Female 	Female 	Female 
Technical Data					
Operating voltage	max. 125 V AC/DC				
Operating current per contact	max. 8 A				
Connection cross section	max. 1 mm ²				
Sealing range (cable diameter)	8...14 mm				
Connection	Solder buckets				
Protection	IP65 and IP67 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					
	7000 - - 000 0000				
	1 Form				

Notes

Other versions on request.

NOTES

7/8" ROUND PLUG CONNECTORS

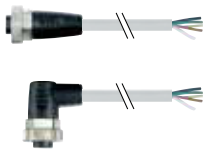
POWERFUL AND SAFE

- Tough and reliable
- Molded connector
- Easy, safe connections with thread

THE CONNECTOR FOR LARGE POWER TRANSMISSION

Murrelektronik's 7/8" round plug connector is designed for optimum performance and the pre-wired versions can transmit power up to 12 A/contact at max. 400 V AC/DC. Of course, all connectors are 100% tested.

With Open Ended Wires



7/8" female

- Straight
- 90°

Page 3.9.1

Connection Cables



7/8" male

- Straight
- 90°

7/8" female

- Straight
- 90°

Page 3.9.2

Field-Wireable



Insulation Displacement Technology

7/8" male/female

- Straight

Page 3.9.3



Screw Terminals

7/8" male/female

- Straight
- 90°

Page 3.9.4

7/8" ROUND PLUG CONNECTORS

Open ended wires

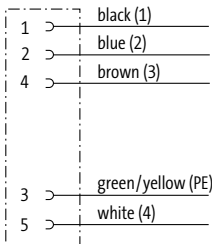
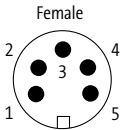
Female
straight



Female
90°



Approvals: 

1 Form		78021	78051
Type		5-pole Power cable	5-pole Power cable
Circuit diagram			
Contact layout			
2 Cable Type		Jacket Color	
Wire diameter 1.0 mm²		gray	gray
PUR/PVC		965	965
Wire diameter 1.5 mm²			
PUR (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	
Technical Data			
Operating voltage		max. 230/400 V AC/DC	
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)	
Temperature range		-25...+85 °C, depending on cable quality	
Article No.			
The composition of your article number is explained on page 3.1.i		7 0 0 0	- - - - -
		1 Form	2 Cable Type 3 Cable Length
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.	

7/8" ROUND PLUG CONNECTORS

Connection cables

– 7/8"– 7/8"

Approvals: 

Male

straight

Female

straight



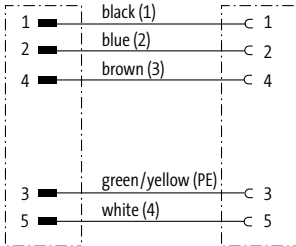
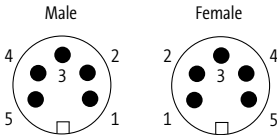
Male

90°

Female

90°



1 Form		50021		50051	
Type		5-pole		5-pole	
		Power cable		Power cable	
Circuit diagram					
Contact layout					
2 Cable Type		Jacket Color		Jacket Color	
Wire diameter 1.0 mm²		gray		gray	
PUR/PVC		965		965	
Wire diameter 1.5 mm²					
PUR (UL/CSA)		961		961	
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. 230/400 V AC/DC			
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)			
Temperature range		-25...+85 °C, depending on cable quality			
Article No.					
The composition of your article number is explained on page 3.1.i		7000 - -			
		1 Form		2 Cable Type	
				3 Cable Length	
Notes					
		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.			

7/8" ROUND PLUG CONNECTORS

Field-wireable

– IDC terminals

Male

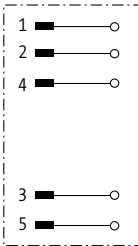
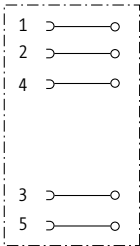
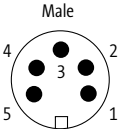
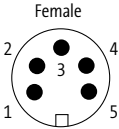
straight



Female

straight



1	Form	78091	78211
Type	5-pole	5-pole	
Circuit diagram			
Connection cross section	0.75...1.5 mm²		
Contact layout			
Technical Data			
Operating voltage	max. 230/400 V AC/DC		
Operating current per contact	max. 10 A		
Connection cross section	0.75...1.5 mm² (conductor diameter min. 0.15 mm)		
Sealing range (cable diameter)	6.8...9.5 mm		
Wire isolation	PVC, PP, TPE		
Outer wire diameter	max. 2.8 mm		
Locking of ports	Screw thread 7/8" (recommended torque 1.5 Nm) self-securing		
Protection	IP65 and IP67 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	7000- - 00000000		
	1 Form		
Notes			
Other versions on request.			

7/8" ROUND PLUG CONNECTORS

Field-wireable

– Screw terminals

Male

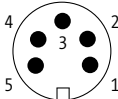
straight



Male

90°



1	Form	78081	78101	78141
Type		5-pole	5-pole	5-pole
Circuit diagram		1  2  4  3  5 		
Sealing range (cable diameter)		6...8 mm	10...12 mm	6...8 mm
Contact layout		Male 		
Technical Data				
Operating voltage		max. 250 V AC/DC		
Operating current per contact		max. 9 A		
Connection cross section		max. 1.5 mm²		
Sealing range (cable diameter)		6...8 mm	10...12 mm	6...8 mm
Locking of ports		Screw thread 7/8" (recommended torque 1.5 Nm) self-securing		
Protection		IP65 and IP67 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 0 0	- - - - - -	0 0 0 0
				0 0 0 0
		1	Form	
Notes				
		Other versions on request.		

7/8" ROUND PLUG CONNECTORS

Field-wireable

– Screw terminals

Female

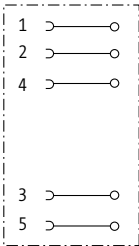
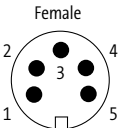
straight



Female

90°



1	Form	78201	78221	78261
Type		5-pole	5-pole	5-pole
Circuit diagram				
Sealing range (cable diameter)		6...8 mm	10...12 mm	6...8 mm
Contact layout				
Technical Data				
Operating voltage		max. 250 V AC/DC		
Operating current per contact		max. 9 A		
Connection cross section		max. 1.5 mm²		
Sealing range (cable diameter)		6...8 mm	10...12 mm	6...8 mm
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)		
Temperature range		-25...+85 °C		
Locking of ports		Screw thread 7/8" (recommended torque 1.5 Nm) self-securing		
Article No.				
The composition of your article number is explained on page 3.1.i		7 0 0 0	-	0 0 0
				0 0 0 0
		1	Form	
Notes				
		Other versions on request.		

7/8" ROUND PLUG CONNECTORS

Connection accessories			Art-No.
	Flange 7/8" male, pre-wired 0.2 m 5-pole	7/8" Round Plug Connectors	7000-78341-9780020
	Flange 7/8" female, pre-wired 0.2 m 5-pole	7/8" Round Plug Connectors	7000-78381-9780020
	T-coupler 7/8"-7/8", female/male 5-pole		7000-50061-0000000
Mounting accessories			Art-No.
	Torque wrench set 7/8" (1.5 Nm, AF22)	IDC terminals	7000-99104-0000000
	Torque wrench 7/8" (SW24)		7000-99097-0000000

NOTES



VALVE CONNECTORS MORE MODELS THAN EVER

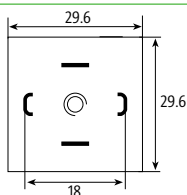
- Molded construction – resistant to shock and vibration
- Tested to ensure reliability
- IP65 to IP67 Rated

THE CONNECTOR FOR VALVES AND PRESSURE SWITCHES

25 years ago, Murrelektronik developed and produced the first pre-wired and molded valve connector. It was a revolution! Now, more than ever, Murrelektronik's valve plugs enjoy long-running success as a result of continuous improvement. A captive gasket, integrated LED status indicator and suppression are the top features of Murrelektronik's MSUD valve plug.

With Open Ended Wires

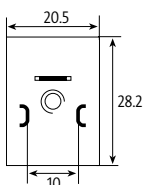
Valve Diagram



MSUD Valve Connector

- Form A
- acc. to EN 175301-803 (ISO 4400)
- Pin spacing 18 mm

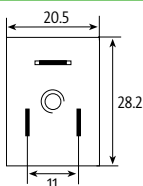
Page 3.10.1



MSUD Valve Connector

- Form B
- acc. to EN 175301-803 (ISO 6952)
- Pin spacing 10 mm

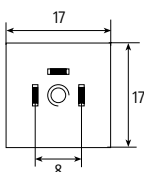
Page 3.10.4



MSUD Valve Connector

- Form BI
- Industrial standard
- Pin spacing 11 mm

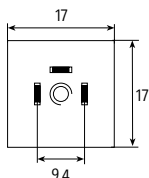
Page 3.10.6



MSUD Valve Connector

- Form C
- acc. to EN 175301-803 (ISO 6952)
- Pin spacing 8 mm

Page 3.10.8



MSUD Valve Connector

- Form CI
- Industrial standard
- Pin spacing 9.4 mm

Page 3.10.10

With Open Ended Wires

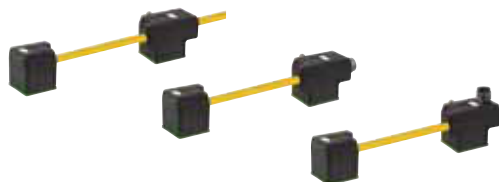


Junior Timer Valve Connector

2-pole
• Straight

Page 3.10.12

Connection Cables

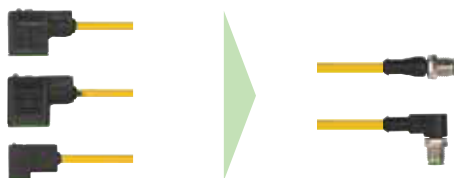


**MSUD Double Valve Connector
With connection cable**

• Form A
• Form B
• Form BI

M12 male
• Top connection
• Rear connection
• With connection cable

Page 3.10.13



MSUD Valve Connector

• Form A
• Form B
• Form BI
• Form C
• Form CI

M12 male
• Straight
• 90°

Page 3.10.16



MSUD Valve Connector Adapter

• Form A
• Form B
• Form BI

M12 male
• Top connection
• Rear connection

Page 3.10.20

Field-Wireable



Screw Terminals

SVS Valve Connector

• Form A
• Form B
• Form BI

Page 3.10.23



Insulation Displacement Technology

MOSA Valve Connector

• Form C
• Form CI

Page 3.10.31



Screw Terminals

SVS Eco Valve Connector

• Form A
• Form B
• Form BI
• Form C
• Form CI

Page 3.10.32

NOTES

| VALVE CONNECTORS

MSUD

– with open ended wires

Form A (18 mm)



Approvals: 

1	Form	18001			18021			18041		
	Type	24 V AC/DC			24 V AC/DC			110 V AC/DC		
		LED			LED and suppression			LED and suppression		
	Circuit diagram									
Contact layout										
2	Cable Type	Jacket Color			Jacket Color			Jacket Color		
	Wire diameter 0.75 mm²	yellow	gray	black	yellow	gray	black	yellow	gray	black
	PVC	016	216	616	016	216	616	016	216	616
	PUR/PVC	026	226	626	026	226	626	026	226	626
	PUR (UL/CSA)	036	236	636	036	236	636	036	236	636
	PUR (UL/CSA), welding spark res.	056	256	656	056	256	656	056	256	656
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 %						110 V AC/DC ±10 %		
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)								
Temperature range		-25...+85 °C, depending on cable quality								
Article No.										
The composition of your article number is explained on page 3.1.i		7 0 0 0			- - - - -			- - - - -		
		1 Form			2 Cable Type			3 Cable Length		
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.								

VALVE CONNECTORS

MSUD

– with open ended wires

Approvals: 

Form A (18 mm)



1 Form

18061

18081

Type

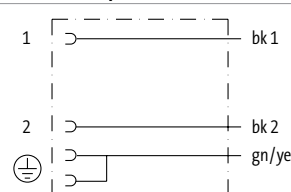
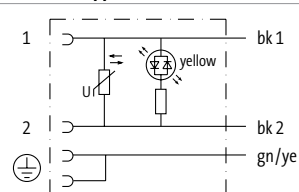
230 V AC/DC

0...230 V AC/DC

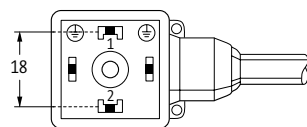
LED and suppression

without components

Circuit diagram



Contact layout



2 Cable Type

Jacket Color

Jacket Color

Wire diameter 0.75 mm²

yellow

gray

black

yellow

gray

black

PVC

016

216

616

016

216

616

PUR/PVC

026

226

626

026

226

626

PUR (UL/CSA)

036

236

636

036

236

636

PUR (UL/CSA), welding spark res.

056

256

656

056

256

656

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

230 V AC/DC ±10 %

max. 230 V AC/DC

Protection

IP65 and IP67 when plugged and screwed down (EN 60529)

Temperature range

-25...+85 °C, depending on cable quality

Article No.

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

7 0 0 0

-

-

1 Form

2 Cable Type

3 Cable Length

Notes

Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.

VALVE CONNECTORS

MSUD

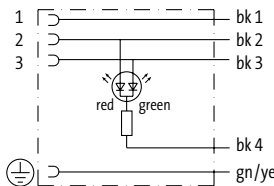
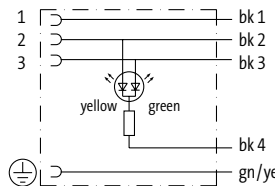
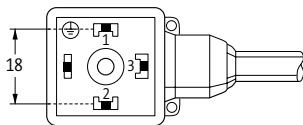
– with open ended wires

– for pressure switches

Approvals: 

Form A (18 mm)



1	Form	18121			18141		
	Type	24 V DC			24 V DC		
	Circuit diagram						
Contact layout							
2	Cable Type	Jacket Color			Jacket Color		
	Wire diameter 0.75 mm²	yellow	gray	black	yellow	gray	black
	PVC	018	218	618	018	218	618
	PUR/PVC	028	228	628	028	228	628
	PUR (UL/CSA)	038	238	638	038	238	638
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 and IP67 when plugged and screwed down (EN 60529)					
Temperature range		-25...+85 °C, depending on cable quality					
Article No.							
The composition of your article number is explained on page 3.1.i		7000 - -					
		1 Form		2 Cable Type		3 Cable Length	
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.					

| VALVE CONNECTORS

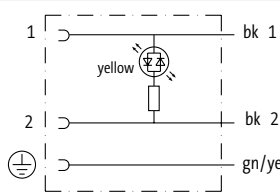
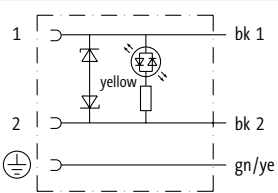
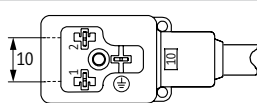
MSUD

– with open ended wires

Approvals:  

Form B (10 mm)



1	Form	10001			10021			10041					
	Type	24 V AC/DC LED			24 V AC/DC LED and suppression			110 V AC/DC LED and suppression					
	Circuit diagram												
Contact layout													
2	Cable Type	Jacket Color			Jacket Color			Jacket Color					
	Wire diameter 0.75 mm²	yellow	gray	black	yellow	gray	black	yellow	gray	black			
	PVC	016	216	616	016	216	616	016	216	616			
	PUR/PVC	026	226	626	026	226	626	026	226	626			
	PUR (UL/CSA)	036	236	636	036	236	636	036	236	636			
	PUR (UL/CSA), welding spark res.	056	256	656	056	256	656	056	256	656			
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 %						110 V AC/DC ±10 %					
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)											
Temperature range		-25...+85 °C, depending on cable quality											
Article No.													
The composition of your article number is explained on page 3.1.i													
		7 0 0 0 - -											
		1		Form		2		Cable Type		3		Cable Length	
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.											

| VALVE CONNECTORS

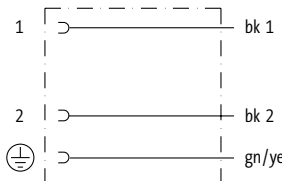
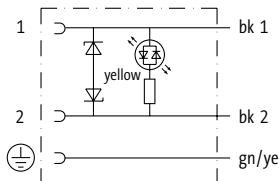
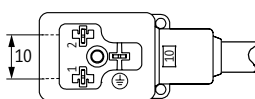
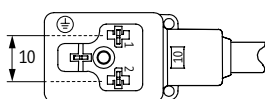
MSUD

– with open ended wires

Form B (10 mm)



Approvals: 

1 Form		10061			10081		
Type		0...230 V AC/DC			24 V AC/DC		
		without components			LED and suppression		
Circuit diagram							
Contact figure		0°, PE at cable outlet			180°, PE opposite cable outlet		
Contact layout							
2 Cable Type		Jacket Color			Jacket Color		
Wire diameter 0.75 mm²		yellow	gray	black	yellow	gray	black
PVC		016	216	616	016	216	616
PUR/PVC		026	226	626	026	226	626
PUR (UL/CSA)		036	236	636	036	236	636
PUR (UL/CSA), welding spark res.		056	256	656	056	256	656
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. 230 V AC/DC			24 V AC/DC ±25 %		
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)					
Temperature range		-25...+85 °C, depending on cable quality					
Article No.							
The composition of your article number is explained on page 3.1.i		7 0 0 0 - - - - - - - -					
		1 Form		2 Cable Type		3 Cable Length	
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.					

VALVE CONNECTORS

MSUD

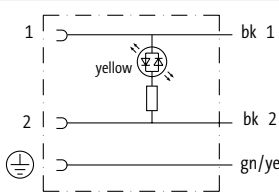
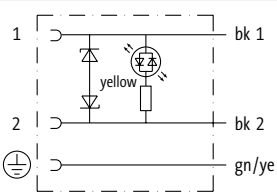
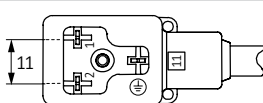
– with open ended wires

Approvals:  

Form BI (11 mm)

Industrial standard



1	Form	11001			11021			11041		
	Type	24 V AC/DC			24 V AC/DC			110 V AC/DC		
		LED			LED and suppression			LED and suppression		
	Circuit diagram									
Contact layout										
2	Cable Type	Jacket Color			Jacket Color			Jacket Color		
	Wire diameter 0.75 mm²	yellow	gray	black	yellow	gray	black	yellow	gray	black
	PVC	016	216	616	016	216	616	016	216	616
	PUR/PVC	026	226	626	026	226	626	026	226	626
	PUR (UL/CSA)	036	236	636	036	236	636	036	236	636
	PUR (UL/CSA), welding spark res.	056	256	656	056	256	656	056	256	656
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 %							110 V AC/DC ±10 %	
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)								
Temperature range		-25...+85 °C, depending on cable quality								
Article No.										
The composition of your article number is explained on page 3.1.i		7 0 0 0			— — — — —			— — — — —		
		1 Form			2 Cable Type			3 Cable Length		
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.								

| VALVE CONNECTORS

MSUD

– with open ended wires

Form BI (11 mm)

Industrial standard



Approvals: 

1 Form		11061			11081		
Type		0...230 V AC/DC			24 V AC/DC		
		without components			LED and suppression		
Circuit diagram							
Contact figure		0°, PE at cable outlet			180°, PE opposite cable outlet		
Contact layout							
2 Cable Type		Jacket Color			Jacket Color		
Wire diameter 0.75 mm²		yellow	gray	black	yellow	gray	black
PVC		016	216	616	016	216	616
PUR/PVC		026	226	626	026	226	626
PUR (UL/CSA)		036	236	636	036	236	636
PUR (UL/CSA), welding spark res.		056	256	656	056	256	656
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		230 V AC/DC			24 V AC/DC ±25 %		
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)					
Temperature range		-25...+85 °C, depending on cable quality					
Article No.							
The composition of your article number is explained on page 3.1.i		7000 - -					
		1 Form		2 Cable Type		3 Cable Length	
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.					

VALVE CONNECTORS

MSUD

– with open ended wires

Approvals:  

Form C (8 mm)



1 Form

80001

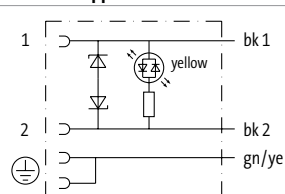
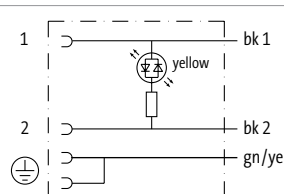
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Type

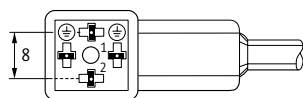
24 V AC/DC

24 V AC/DC

Circuit diagram



Contact layout



2 Cable Type

Jacket Color

Jacket Color

Wire diameter 0.75 mm²

yellow

gray

black

yellow

gray

black

PVC

016

216

616

016

216

616

PUR/PVC

026

226

626

026

226

626

PUR (UL/CSA)

036

236

636

036

236

636

PUR (UL/CSA), welding spark res.

056

256

656

056

256

656

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 $\pm 25\%$

Protection

IP65 and IP67 when plugged and screwed down (EN 60529)

Temperature range

-25...+85 °C, depending on cable quality

Article No.

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

7 0 0 0

-

-

1

Form

2

Cable Type

3

Cable Length

Notes

Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.

VALVE CONNECTORS

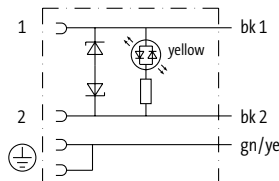
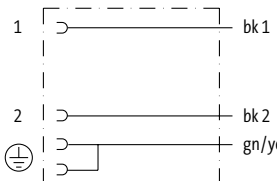
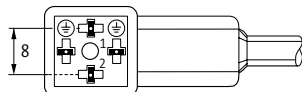
MSUD

– with open ended wires

Form C (8 mm)



Approvals: 

1	Form	80041			80061		
	Type	110 V AC/DC			0...230 V AC/DC		
	Circuit diagram	LED and suppression 			without components 		
Contact layout							
2	Cable Type	Jacket Color			Jacket Color		
	Wire diameter 0.75 mm²	yellow	gray	black	yellow	gray	black
	PVC	016	216	616	016	216	616
	PUR/PVC	026	226	626	026	226	626
	PUR (UL/CSA)	036	236	636	036	236	636
	PUR (UL/CSA), welding spark res.	056	256	656	056	256	656
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		110 V AC/DC ±10 %			max. 230 V AC/DC		
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)					
Temperature range		-25...+85 °C, depending on cable quality					
Article No.							
The composition of your article number is explained on page 3.1.i		7000 - -					
		1 Form		2 Cable Type		3 Cable Length	
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.					

| VALVE CONNECTORS

MSUD

– with open ended wires

Approvals: 

Form CI (9.4 mm)

Industrial standard



1 Form

94001

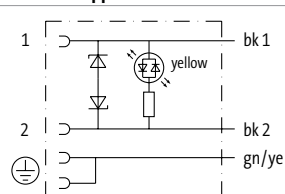
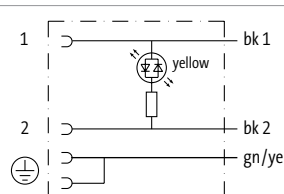
94021

Type

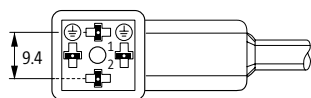
24 V AC/DC

24 V AC/DC

Circuit diagram



Contact layout



2 Cable Type

Jacket Color

Jacket Color

Wire diameter 0.75 mm²

yellow

gray

black

yellow

gray

black

PVC

016

216

616

016

216

616

PUR/PVC

026

226

626

026

226

626

PUR (UL/CSA)

036

236

636

036

236

636

PUR (UL/CSA), welding spark res.

056

256

656

056

256

656

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 and IP67 when plugged and screwed down (EN 60529)

Temperature range

-25...+85 °C, depending on cable quality

Article No.

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

7 0 0 0

-

-

1

Form

2

Cable Type

3

Cable Length

Notes

Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.

VALVE CONNECTORS

MSUD

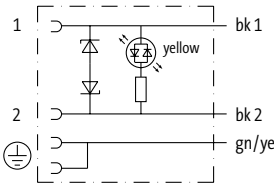
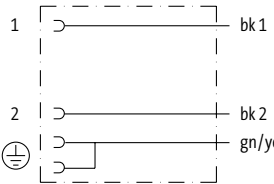
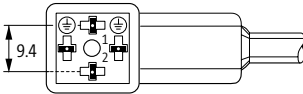
– with open ended wires

Form CI (9.4 mm)

Industrial standard



Approvals:

1	Form	94041			94061					
	Type	110 V AC/DC			0...230 V AC/DC					
	Circuit diagram	LED and suppression 			without components 					
Contact layout										
2	Cable Type	Jacket Color			Jacket Color					
	Wire diameter 0.75 mm²	yellow	gray	black	yellow	gray	black			
	PVC	016	216	616	016	216	616			
	PUR/PVC	026	226	626	026	226	626			
	PUR (UL/CSA)	036	236	636	036	236	636			
	PUR (UL/CSA), welding spark res.	056	256	656	056	256	656			
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		110 V AC/DC ±10 %			max. 230 V AC/DC					
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)								
Temperature range		-25...+85 °C, depending on cable quality								
Article No.										
The composition of your article number is explained on page 3.1.i		7000 - -								
		1		Form	2		Cable Type	3		Cable Length
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.								

VALVE CONNECTORS

Junior Timer

– with open ended wires

Male

straight



Approvals:

1 Form

70001

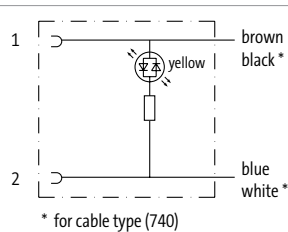
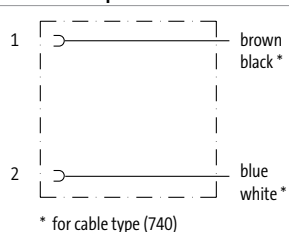
70021

Type

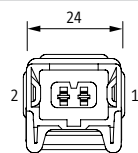
0...230 V AC/DC

10...30 V AC/DC

Circuit diagram



Contact layout



2 Cable Type

Jacket Color

Jacket Color

Wire diameter 0.5 mm²

PUR

black

black

Wire diameter 0.75 mm²

PVC

740

740

PUR/PVC

752

752

750

750

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

0...230 V AC/DC

10...30 V AC/DC

Protection

IP65 inserted and tightened

Temperature range

-25...+85 °C, depending on cable quality

Article No.

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

7 0 0 0

-

-

1

Form

2

Cable Type

3

Cable Length

Notes

Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.

VALVE CONNECTORS

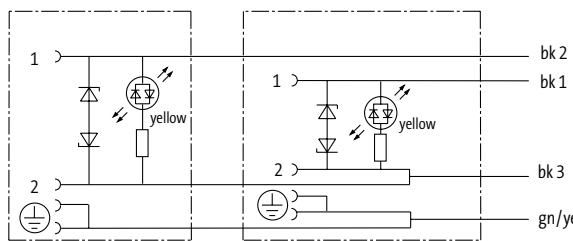
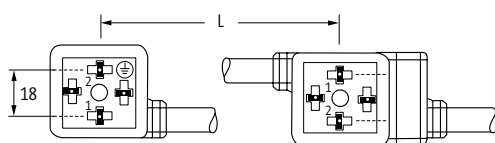
MSUD - MSUD

– Double valve plugs with connection cable

Approvals:   

Form A (18 mm)



1	Form	58001	58021			58041				
	Type	24 V AC/DC	24 V AC/DC			24 V AC/DC				
		LED and suppression	LED and suppression			LED and suppression				
		L = 100 mm	L = 150 mm			L = 200 mm				
Circuit diagram		Valve plug 2 Valve plug 1 Connection cable 								
Contact layout										
2	Cable Type	Jacket Color			Jacket Color			Jacket Color		
	Wire diameter 0.75 mm²	yellow	gray	black	yellow	gray	black	yellow	gray	black
	PVC	017	217	617	017	217	617	017	217	617
	PUR/PVC	027	227	627	027	227	627	027	227	627
	PUR (UL/CSA)	037	237	637	037	237	637	037	237	637
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 ±20 % / DC ±25 %								
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)								
Temperature range		-25...+85 °C, depending on cable quality								
Article No.										
The composition of your article number is explained on page 3.1.i		7 0 0 0 - - - - - -								
		1 Form			2 Cable Type			3 Cable Length		
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.								

VALVE CONNECTORS

MSUD - MSUD

– Double valve plugs with M12 male, connector top entry

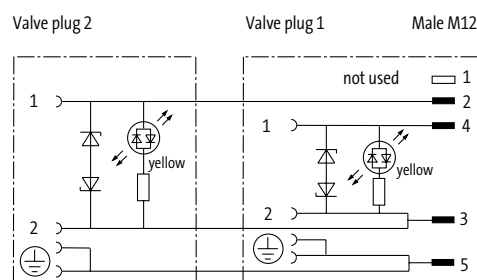
Approvals:  

Form A (18 mm)

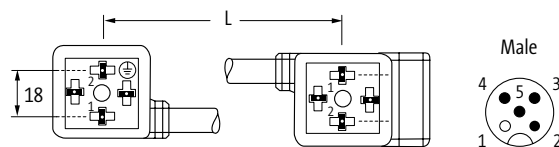


1 Form	41501	41521	41541
Type	24 V AC/DC, M12 (4-pole)	24 V AC/DC, M12 (4-pole)	24 V AC/DC, M12 (4-pole)
LED and suppression		LED and suppression	LED and suppression
L = 100 mm		L = 150 mm	L = 200 mm

Circuit diagram



Contact layout



2 Cable Type	Jacket Color			Jacket Color			Jacket Color		
Wire diameter 0.75 mm²	yellow	gray	black	yellow	gray	black	yellow	gray	black
PVC	016	216	616	016	216	616	016	216	616
PUR/PVC	026	226	626	026	226	626	026	226	626
PUR (UL/CSA)	036	236	636	036	236	636	036	236	636

Technical Data

Operating voltage	24 V AC ±20 % / DC ±25 %
Protection	IP65 and IP67 when plugged and screwed down (EN 60529)
Temperature range	-25...+85 °C, depending on cable quality

Article No.

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

7 0 0 0

-

-

0 0 0 0

1 Form

2 Cable Type

Notes

Other versions on request.

VALVE CONNECTORS

MSUD - MSUD

– Double valve plugs with M12 male, connector at the rear

Approvals:  

Form A (18 mm)



1	Form	41561			41581			41601		
	Type	24 V AC/DC, M12 (4-pole)			24 V AC/DC, M12 (4-pole)			24 V AC/DC, M12 (4-pole)		
		LED and suppression			LED and suppression			LED and suppression		
		L = 100 mm			L = 150 mm			L = 200 mm		
Circuit diagram		Valve plug 2 Valve plug 1 Male M12								
Contact layout										
2	Cable Type	Jacket Color			Jacket Color			Jacket Color		
	Wire diameter 0.75 mm²	yellow	gray	black	yellow	gray	black	yellow	gray	black
	PVC	016	216	616	016	216	616	016	216	616
	PUR/PVC	026	226	626	026	226	626	026	226	626
	PUR (UL/CSA)	036	236	636	036	236	636	036	236	636
Technical Data										
Operating voltage		24 V AC ±20 % / DC ±25 %								
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)								
Temperature range		-25...+85 °C, depending on cable quality								
Article No.										
The composition of your article number is explained on page 3.1.i		7 0 0 0			- - - - -			0 0 0 0		
		1			Form			2		
					Cable Type					
Notes		Other versions on request.								

VALVE CONNECTORS

MSUD - M12

– Connection cables

Form A (18 mm)

Male M12

straight



Approvals:  

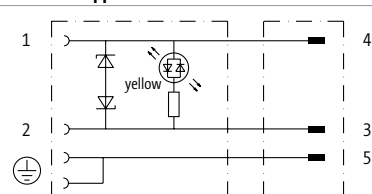
1 Form

40881

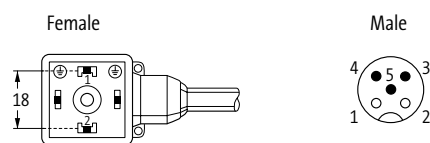
Type

24 V AC/DC, M12 (3-pole)

Circuit diagram



Contact layout



2 Cable Type

Jacket Color

Wire diameter 0.75 mm ²	yellow	gray	black
PVC	016	216	616
PUR/PVC	026	226	626
PUR (UL/CSA)	036	236	636
PUR (UL/CSA), welding spark res.	056	256	656

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 AC $\pm 20\%$ / DC $\pm 25\%$
Protection	IP65 and IP67 when plugged and screwed down (EN 60529)
Temperature range	-25...+85 °C, depending on cable quality

Article No.

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

7 0 0 0

- 4 0 8 8 1

1 Form

2 Cable Type

3 Cable Length

Notes

Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.

| VALVE CONNECTORS

MSUD - M12

– Connection cables

– for pressure switches

Approvals:  

Form A (18 mm)

Male M12

straight



1 Form		40921			40931		
Type		24 V DC, M12 (5-pole)			24 V DC, M12 (5-pole)		
Circuit diagram		LED (red/green)			LED (yellow/green)		
Contact layout		Female			Male		
2 Cable Type		Jacket Color			Jacket Color		
Wire diameter 0.34 mm²		yellow	gray	black	yellow	gray	black
PVC (UL/CSA)		015	215	615	015	215	615
PUR/PVC		025	225	625	025	225	625
PUR (UL/CSA)		035 (126)	235	635 (732)	035 (126)	235	635 (732)
PUR (UL/CSA), welding spark res.		055	255	655	055	255	655
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 and IP67 when plugged and screwed down (EN 60529)					
Temperature range		-25...+85 °C, depending on cable quality					
Article No.							
The composition of your article number is explained on page 3.1.i		7 0 0 0 - - - - - -			- - - - - - - - - -		
		1 Form		2 Cable Type		3 Cable Length	
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.					

VALVE CONNECTORS

MSUD - M12

– Connection cables

Approvals:  

Form B (10 mm)

Male M12
straight



Form BI (11 mm)
Industrial standard

Male M12
straight



1 Form

41001

40961

Type

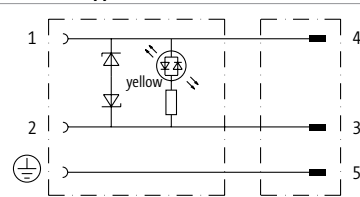
24 V AC/DC, M12 (3-pole)

24 V AC/DC, M12 (3-pole)

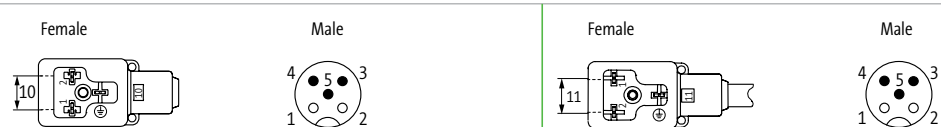
LED and suppression

LED and suppression

Circuit diagram



Contact layout



2 Cable Type

Jacket Color

Jacket Color

Wire diameter 0.75 mm²	yellow	gray	black	yellow	gray	black
PVC	016	216	616	016	216	616
PUR/PVC	026	226	626	026	226	626
PUR (UL/CSA)	036	236	636	036	236	636
PUR (UL/CSA), welding spark res.	056	256	656	056	256	656

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 AC ±20 % / DC ±25 %
Protection	IP65 and IP67 when plugged and screwed down (EN 60529)
Temperature range	-25...+85 °C, depending on cable quality

Article No.

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

7 0 0 0

-

-

1 Form

2 Cable Type

3 Cable Length

Notes

Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.

| VALVE CONNECTORS

MSUD - M12

– Connection cables

Form C (8 mm)

Male M12
straight

Form CI (9.4 mm)
Industrial standard

Male M12
straight



Approvals:

1 Form		41081			41041			
Type		24 V AC/DC, M12 (3-pole)			24 V AC/DC, M12 (3-pole)			
		LED and suppression			LED and suppression			
Circuit diagram								
Contact layout								
2 Cable Type		Jacket Color			Jacket Color			
Wire diameter 0.75 mm²		yellow	gray	black	yellow	gray	black	
PVC		016	216	616	016	216	616	
PUR/PVC		026	226	626	026	226	626	
PUR (UL/CSA)		036	236	636	036	236	636	
PUR (UL/CSA), welding spark res.		056	256	656	056	256	656	
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 AC ±20 % / DC ±25 %						
Protection		IP65 and IP67 when plugged and screwed down (EN 60529)						
Temperature range		-25...+85 °C, depending on cable quality						
Article No.								
The composition of your article number is explained on page 3.1.i		7000 - -						
		1 Form		2 Cable Type		3 Cable Length		
Notes		Other versions on request. Differing cable lengths up to 2 m can be ordered in 0.2 m steps, from 2 m on in 0.5 m steps.						

VALVE CONNECTORS

MSUD - M12

– Adapter

Approvals:  

Form A (18 mm)

Top connection



Form A (18 mm)

Rear connection



1 Form

41301

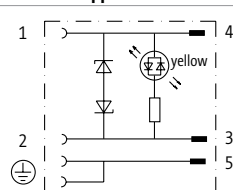
41421

Type

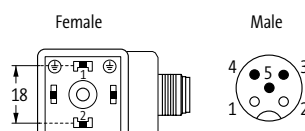
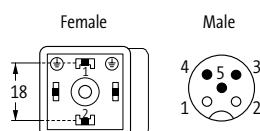
M12 (3-pole)

M12 (3-pole)

Circuit diagram



Contact layout



Technical Data

Operating voltage	24 V AC $\pm 20\%$ / DC $\pm 25\%$
Operating current per contact	max. 4 A
Switch off peak	max. 55 V
Locking of ports	M3 (recommended torque 0.4 Nm)
Protection	IP65 and IP67 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 0 0

-

0 0 0

0 0 0 0

1 Form

Notes

Other versions on request.

VALVE CONNECTORS

MSUD - M12

– Adapter

Approvals:   

Form A (18 mm)

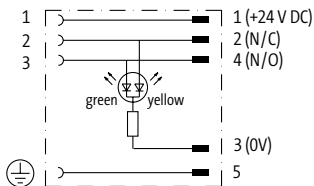
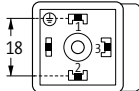
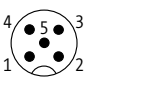
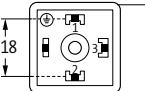
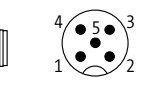
Top connection



Form A (18 mm)

Rear connection



1	Form	41321	41441
Type	M12 (5-pole) for pressure switches	M12 (5-pole) for pressure switches	
Circuit diagram			
Contact layout	Female  Male  Female  Male 		
Technical Data			
Operating voltage	24 V AC/DC ±25 %		
Operating current per contact	max. 4 A		
Switch off peak	max. 55 V	–	
Locking of ports	M3 (recommended torque 0.4 Nm)		
Protection	IP65 and IP67 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 0 0	–	0 0 0
			0 0 0 0
	1	Form	
Notes	Other versions on request.		

VALVE CONNECTORS

MSUD - M12

– Adapter

Approvals:   

Form B (10 mm)

Top connection



Form B (10 mm)

Rear connection



1 Form

41901

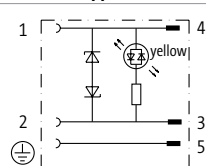
41961

Type

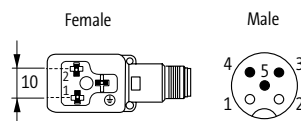
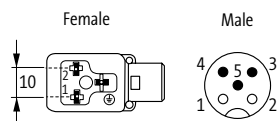
M12 (3-pole)

M12 (3-pole)

Circuit diagram



Contact layout



Technical Data

Operating voltage	24 V AC $\pm 20\%$ / DC $\pm 25\%$
Operating current per contact	max. 4 A
Switch off peak	max. 55 V
Locking of ports	M3 (recommended torque 0.4 Nm)
Protection	IP65 and IP67 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 0 0

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1 Form

Notes

Other versions on request.

VALVE CONNECTORS

MSUD - M12

– Adapter

Approvals:   

Form BI (11 mm)

Industrial standard
Top connection



Form BI (11 mm)

Industrial standard
Rear connection



1 Form		42021	42081
Type		M12 (3-pole)	M12 (3-pole)
		LED and suppression	LED and suppression
Circuit diagram			
Contact layout	Female Male Female Male		
Technical Data			
Operating voltage	24 V AC ±20 % / DC ±25 %		
Operating current per contact	max. 4 A		
Switch off peak	max. 55 V		
Locking of ports	M3 (recommended torque 0.4 Nm)		
Protection	IP65 and IP67 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 0 0 - - 0 0 0 0 0 0 0		
	1 Form		
Notes	Other versions on request.		

VALVE CONNECTORS

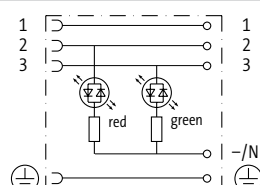
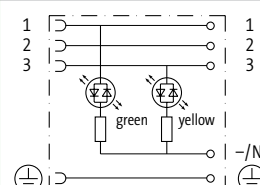
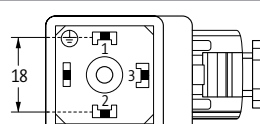
SVS

- Field-wireable
- Convenient connection, screw terminals
- for pressure switches

Approvals: 

Form A (18 mm)



1	Form	29281	29301	29441	29461
	Type	24...230 V AC/DC	24...230 V AC/DC	24 V AC/DC	24 V AC/DC
		LED red (2) green (3)	LED red (2) green (3)	LED green (1) yellow (3)	LED green (1) yellow (3)
		metric	PG 9	metric	PG 9
Circuit diagram					
	Contact layout				
Technical Data					
Operating voltage		24...230 V AC/DC		24 V AC/DC ±25 %	
Operating current per contact		max. 4 A			
Sealing range (cable diameter)		5...10 mm	6...8 mm	5...10 mm	6...8 mm
Locking of ports		M3 (recommended torque 0.4 Nm)			
Compression gland		M16 × 1.5 mm	PG 9; (PG11, NPT 1/2" o. r.)	M16 × 1.5 mm	PG 9; (PG11, NPT 1/2" o. r.)
Protection		IP65 inserted and tightened (EN 60529), with gland			
Temperature range		-20...+60 °C			
Article No.					
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		0 0 0 0			
		1 Form			
Notes		Other versions on request.			

VALVE CONNECTORS

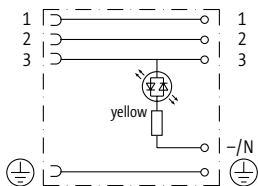
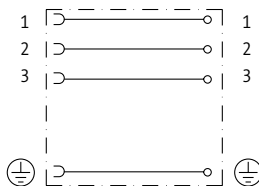
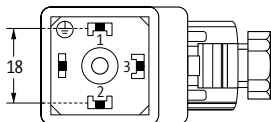
SVS

- Field-wireable
- Convenient connection, screw terminals
- for pressure switches

Approvals: 

Form A (18 mm)



1	Form	29361	29381	29401	29421
	Type	24...230 V AC/DC	24...230 V AC/DC	0...230 V AC/DC	0...230 V AC/DC
		LED yellow (3)	LED yellow (3)	without components	without components
		metric	PG 9	metric	PG 9
	Circuit diagram				
	Contact layout				
Technical Data					
Operating voltage		24...230 V AC/DC		0...230 V AC/DC	
Operating current per contact		max. 4 A		max. 10 A	
Sealing range (cable diameter)		5...10 mm	6...8 mm	5...10 mm	6...8 mm
Locking of ports		M3 (recommended torque 0.4 Nm)			
Compression gland		M16 × 1.5 mm	PG 9; (PG11, NPT 1/2" o. r.)	M16 × 1.5 mm	PG 9; (PG11, NPT 1/2" o. r.)
Protection		IP65 inserted and tightened (EN 60529), with gland			
Temperature range		-20...+60 °C			
Article No.					
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		1 Form			
Notes		Other versions on request.			

VALVE CONNECTORS

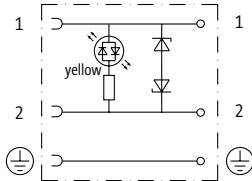
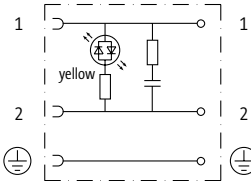
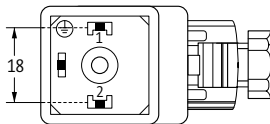
SVS

- Field-wireable
- Convenient connection, screw terminals

Approvals: 

Form A (18 mm)



1	Form	29001	29021	29041	29061
	Type	24 V AC/DC	24 V AC/DC	24 V AC/DC	24 V AC/DC
		LED and Z-diode	LED and Z-diode	LED and RC	LED and RC
		metric	PG 9	metric	PG 9
Circuit diagram					
Contact layout					
Technical Data					
Operating voltage	24 V AC ±20 % / DC ±25 %		24 V AC/DC ±25 %		
Operating current per contact	max. 4 A		max. 2 A		
Switch off peak	max. 55 V		–		
Max. power (W)	max. 100 W(VA)		max. 50 W(VA)		
Connection cross section	4 mm² single core, with ferrule end 1.5 mm²		–		4 mm² single core, with ferrule end 1.5 mm²
Sealing range (cable diameter)	5...10 mm	6...8 mm	5...10 mm	6...8 mm	
Locking of ports	M3 (recommended torque 0.4 Nm)				
Compression gland	M16 × 1.5 mm	PG 9; (PG11, NPT 1/2" o. r.)	M16 × 1.5 mm	PG 9; (PG11, NPT 1/2" o. r.)	
Protection	IP65 inserted and tightened (EN 60529), with gland				
Temperature range	-20...+60 °C				
Article No.					
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	1 Form				
Notes					
		Other versions on request.			

VALVE CONNECTORS

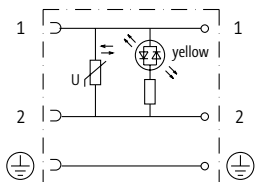
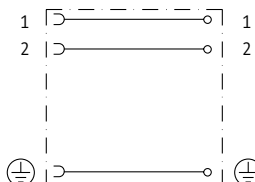
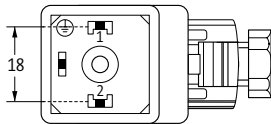
SVS

- Field-wireable
- Convenient connection, screw terminals

Approvals: 

Form A (18 mm)



1	Form	29081	29101	29241	29261
	Type	110 V AC/DC	110 V AC/DC	0...230 V AC/DC	0...230 V AC/DC
		LED and VDR	LED and VDR	without components	without components
		metric	PG 9	metric	PG 9
	Circuit diagram				
	Contact layout				
Technical Data					
Operating voltage	110 V AC/DC ±10 %		0...230 V AC/DC		
Operating current per contact	max. 4 A		max. 10 A		
Switch off peak	max. 250 V		–		
Max. power (W)	max. 100 W(VA)		–		
Connection cross section	4 mm² single core, with ferrule end 1.5 mm²				
Sealing range (cable diameter)	5...10 mm	6...8 mm	5...10 mm	6...8 mm	
Locking of ports	M3 (recommended torque 0.4 Nm)				
Compression gland	M16 × 1.5 mm	PG 9; (PG11, NPT 1/2" o. r.)	M16 × 1.5 mm	PG 9; (PG11, NPT 1/2" o. r.)	
Protection	IP65 inserted and tightened (EN 60529), with gland				
Temperature range	-20...+60 °C				
Article No.					
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	1 Form				
Notes	Other versions on request.				

VALVE CONNECTORS

SVS

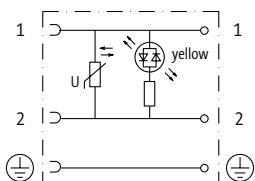
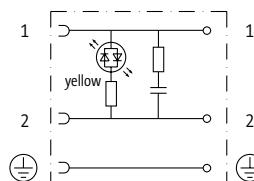
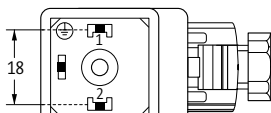
– Field-wireable

– Convenient connection, screw terminals

Approvals: 

Form A (18 mm)



1 Form		29161	29181	29121	29141
Type		230 V AC/DC	230 V AC/DC	110 V AC/DC and 230 V AC/DC	110 V AC/DC and 230 V AC/DC
		LED and VDR	LED and VDR	LED and RC	LED and RC
		metric	PG 9	metric	PG 9
Circuit diagram	 				
Contact layout					
Technical Data					
Operating voltage	230 V AC/DC ±10 %		110 V AC/DC ±10 % and 230 V AC/DC ±10 %		
Operating current per contact	max. 1 A				
Switch off peak	max. 533 V		–		
Max. power (W)	max. 100 W(VA)		max. 50 W(VA)		
Connection cross section	4 mm² single core, with ferrule end 1.5 mm²				
Sealing range (cable diameter)	5...10 mm	6...8 mm	5...10 mm	6...8 mm	
Locking of ports	M3 (recommended torque 0.4 Nm)				
Compression gland	M16 × 1.5 mm	PG 9; (PG11, NPT 1/2" o. r.)	M16 × 1.5 mm	PG 9; (PG11, NPT 1/2" o. r.)	
Protection	IP65 inserted and tightened (EN 60529), with gland				
Temperature range	-20...+60 °C				
Article No.					
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	1 Form				
Notes		Other versions on request.			

VALVE CONNECTORS

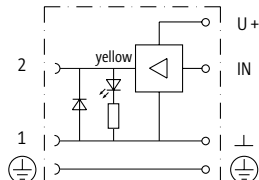
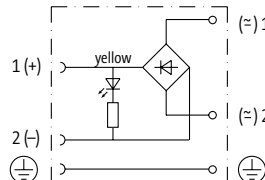
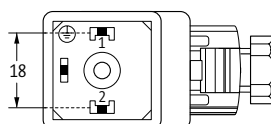
SVS

- Field-wireable
- Convenient connection, screw terminals

Approvals: 

Form A (18 mm)



1	Form	29481	29501	29521	29541
	Type	24 V DC	24 V DC	24...230 V AC/DC	24...230 V AC/DC
		LED and switching amplifier	LED and switching amplifier	LED and bridge rectifier	LED and bridge rectifier
		metric	PG 9	metric	PG 9
	Circuit diagram				
	Contact layout				
Technical Data					
Operating voltage		24 V AC/DC ±25 %		24...230 V AC/DC	
Control voltage		ON: 10...30 V DC; OFF: 0...6 V DC (IN)		–	
Operating current per contact		max. 2 A (short-circuit protected)		max. 1.5 A	
Switch off peak		max. 46 V		–	
Connection cross section		–	4 mm² single core, with ferrule end 1.5 mm²		
Sealing range (cable diameter)		5...10 mm	6...8 mm	5...10 mm	6...8 mm
Locking of ports		M3 (recommended torque 0.4 Nm)			
Compression gland		M16 × 1.5 mm	PG 9; (PG11, NPT 1/2" o. r.)	M16 × 1.5 mm	PG 9; (PG11, NPT 1/2" o. r.)
Protection		IP65 inserted and tightened (EN 60529), with gland			
Temperature range		-20...+60 °C			
Article No.					
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		1 Form			
Notes		Other versions on request.			

VALVE CONNECTORS

SVS

- Field-wireable
- Convenient connection, screw terminals

Approvals: 

Form B (10 mm)



1 Form

29561

29581

29601

29621

Type

24 V AC/DC

24 V AC/DC

24 V AC/DC

24 V AC/DC

LED and Z-diode

LED and Z-diode

LED and RC

LED and RC

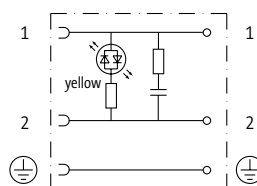
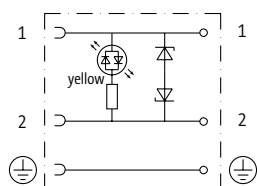
metric

PG 9

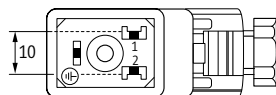
metric

PG 9

Circuit diagram



Contact layout



Technical Data

Operating voltage 24 V AC $\pm 20\%$ / DC $\pm 25\%$

24 V AC/DC $\pm 25\%$

Operating current per contact max. 4 A

max. 2 A

Switch off peak max. 55 V

–

Max. power (W) max. 100 W(VA)

max. 50 W(VA)

Connection cross section 4 mm² single core, with ferrule end 1.5 mm²

Sealing range (cable diameter) 5...10 mm

6...8 mm

5...10 mm

6...8 mm

Locking of ports M3 (recommended torque 0.4 Nm)

Compression gland M16 $\times$ 1.5 mm

PG 9

M16 $\times$ 1.5 mm

PG 9

Protection IP65 inserted and tightened (EN 60529), with gland

Temperature range -20...+60 °C

Article No.

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

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1 Form

Notes

Other versions on request.

SVS

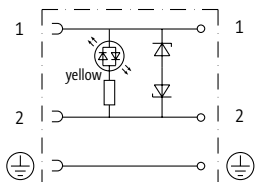
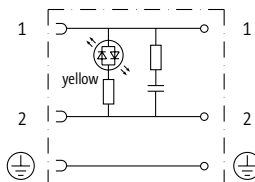
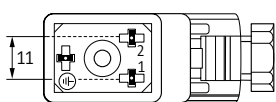
- Field-wireable
- Convenient connection, screw terminals

Approvals: 

Form BI (11 mm)

Industrial standard



1	Form	29801	29821	29841	29861
Type		24 V AC/DC	24 V AC/DC	24 V AC/DC	24 V AC/DC
		LED and Z-diode	LED and Z-diode	LED and RC	LED and RC
		metric	PG 9	metric	PG 9
Circuit diagram					
Contact layout					
Technical Data					
Operating voltage		24 V AC ±20 % / DC ±25 %		24 V AC/DC ±25 %	
Operating current per contact		max. 4 A		max. 2 A	
Switch off peak		max. 55 V		–	
Max. power (W)		max. 100 W(VA)		max. 50 W(VA)	
Connection cross section		4 mm² single core, with ferrule end 1.5 mm²			
Sealing range (cable diameter)		5...10 mm	6...8 mm	5...10 mm	6...8 mm
Locking of ports		M3 (recommended torque 0.4 Nm)			
Compression gland		M16 × 1.5 mm	PG 9	M16 × 1.5 mm	PG 9
Protection		IP65 inserted and tightened (EN 60529), with gland			
Temperature range		-20...+60 °C			
Article No.					
The composition of your article number is explained on page 3.1.i					
		7 0 0 0	1 Form	0 0 0	0 0 0 0
Notes					
		Other versions on request.			

VALVE CONNECTORS

MOSA

– Field-wireable

– IDC terminals

Approvals: 

Form C (8 mm)



Form CI (9.4 mm)

Industrial standard



1 Form

80081

94081

Type

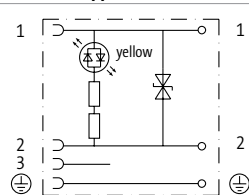
24 V AC/DC

24 V AC/DC

LED and suppression

LED and suppression

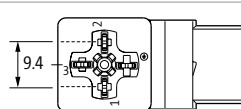
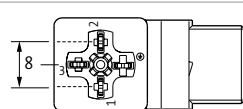
Circuit diagram



Contact figure

Cable outlet can be turned in 3 × 90° steps

Contact layout



Technical Data

Operating voltage	24 V AC/DC ±25 %
Operating current per contact	max. 3 A
Switch off peak	max. 53 V
Connection cross section	0.25...0.5 mm ² (conductor diameter min. 0.1 mm)
Sealing range (cable diameter)	4...6 mm
Outer wire diameter	1.2...1.6 mm
Contact figure	Cable outlet can be turned in 3 × 90° steps
Protection	IP65 and IP67 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

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1 Form

Notes

Other versions on request.

SVS Eco

- Field-wireable
- Screw terminals
- without components

Approvals: 

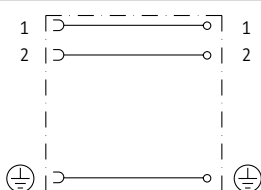
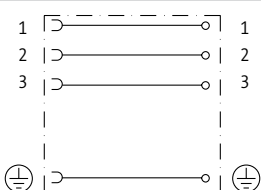
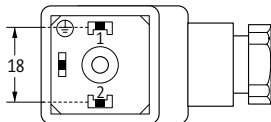
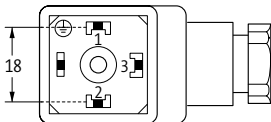
Form A (18 mm)



Form A (18 mm)

for pressure switches



1 Form		29245	29405
Type		0...230 V AC/DC	0...230 V AC/DC
		without components	without components
		metric	metric
Circuit diagram			
Contact figure		Cable outlet can be turned in 90° steps	
Contact layout			
Technical Data			
Operating voltage		0...230 V AC/DC	
Operating current per contact		max. 10 A	
Connection cross section		0.5...1.5 mm²	
Sealing range (cable diameter)		6...8 mm	
Locking of ports		M3 (recommended torque 0.4 Nm)	
Contact figure		Cable outlet can be turned in 90° steps	
Compression gland		M16 × 1.5 mm	
Protection		IP65 inserted and tightened	
Temperature range		-40...+80 °C	
Article No.			
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VALVE CONNECTORS

SVS Eco

- Field-wireable
- Screw terminals
- without components

Approvals: 

Form B (10 mm)



Form BI (11 mm)



1 Form

29765

30005

Type

0...230 V AC/DC

0...230 V AC/DC

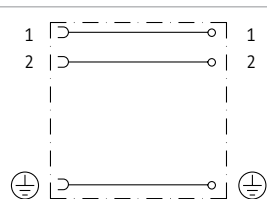
without components

without components

metric

metric

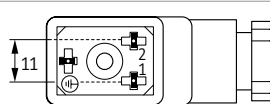
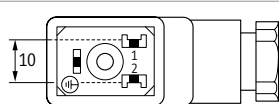
Circuit diagram



Contact figure

Cable outlet can be turned in 180° steps

Contact layout



Technical Data

Operating voltage 0...230 V AC/DC

Operating current per contact max. 10 A

Connection cross section 0.5...1.5 mm²

Sealing range (cable diameter) 6...8 mm

Locking of ports M3 (recommended torque 0.4 Nm)

Contact figure Cable outlet can be turned in 180° steps

Compression gland M16 × 1.5 mm

M12 × 1.75 mm

Protection IP65 inserted and tightened

Temperature range -40...+80 °C

Article No.

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

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1 Form

Notes

Other versions on request.

VALVE CONNECTORS

SVS Eco

- Field-wireable
- Screw terminals
- without components

Approvals: 

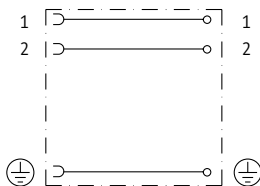
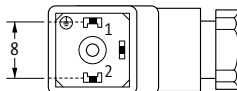
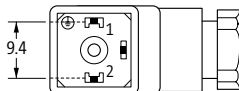
Form C (8 mm)



Form CI (9.4 mm)

Industrial standard



1 Form		30055	30155
Type	0...230 V AC/DC	0...110 V AC/DC	
	without components	without components	
	metric	metric	
Circuit diagram			
Contact figure	Cable outlet can be turned in 90° steps		
Contact layout			
Technical Data			
Operating voltage	0...230 V AC/DC	0...110 V AC/DC	
Operating current per contact	max. 6 A		
Connection cross section	0.34...0.5 mm²		
Sealing range (cable diameter)	4...6 mm		
Locking of ports	M2.5 (couple de serrage recommandé 0,4 Nm)	M3 (recommended torque 0.4 Nm)	
Contact figure	Cable outlet can be turned in 90° steps		
Compression gland	M16 × 1.5 mm	M12 × 1.75 mm	
Protection	IP65 inserted and tightened		
Temperature range	-40...+80 °C		
Article No.			
The composition of your article number is explained on page 3.1.i	7000 - - 000 0000		
	1 Form		
Notes			
Other versions on request.			

VALVE CONNECTORS

SVS Eco, LED

– Field-wireable

– Screw terminals

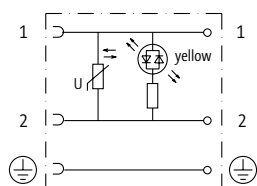
Approvals: 

Form A (18 mm)



1 Form	29005	29085	29165
Type	24 V AC/DC	110 V AC/DC	230 V AC/DC
	LED and VDR	LED and VDR	LED and VDR
	metric	metric	metric

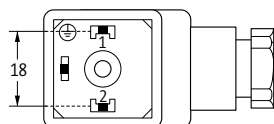
Circuit diagram



Contact figure

Cable outlet can be turned in 90° steps

Contact layout



Technical Data

Operating voltage	24 V AC/DC ±10 %	110 V AC/DC ±10 %	230 V AC/DC ±10 %
Operating current per contact	max. 1.5 A		
Connection cross section	0.5...1.5 mm²		
Sealing range (cable diameter)	6...8 mm		
Locking of ports	M3 (recommended torque 0.4 Nm)		
Compression gland	M16 × 1.5 mm		
Contact figure	Cable outlet can be turned in 90° steps		
Protection	IP65 inserted and tightened		
Temperature range	-40...+60 °C		

Article No.

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

7 0 0 0

-

0 0 0

0 0 0 0

1 Form

Notes

Other versions on request.

- Screw terminals

Form B (10 mm)



Valve Connectors

VALVE CONNECTORS

SVS Eco, LED

– Field-wireable

– Screw terminals

Approvals: 

Form BI (11 mm)

Industrial standard



1 Form

29805

29885

29925

Type

24 V AC/DC

110 V AC/DC

230 V AC/DC

LED and VDR

LED and VDR

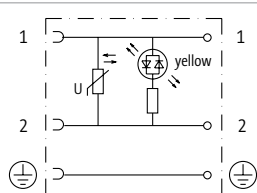
LED and VDR

metric

metric

metric

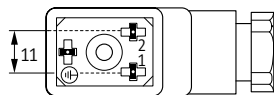
Circuit diagram



Contact figure

Cable outlet can be turned in 180° steps

Contact layout



Technical Data

Operating voltage	24 V AC/DC ±10 %	110 V AC/DC ±10 %	230 V AC ±10 %
Operating current per contact	max. 1.5 A		
Connection cross section	0.5...1.5 mm²		
Sealing range (cable diameter)	6...8 mm		
Locking of ports	M3 (recommended torque 0.4 Nm)		
Compression gland	M16 × 1.5 mm		
Contact figure	Cable outlet can be turned in 180° steps		
Protection	IP65 inserted and tightened		
Temperature range	-40...+60 °C		

Article No.

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

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0 0 0

0 0 0 0

1 Form

Notes

Other versions on request.

SVS Eco, LED

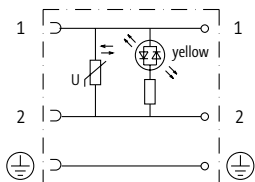
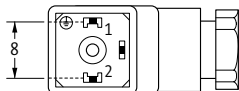
– Field-wireable

– Screw terminals

Approvals: 

Form C (8 mm)



1	Form	30105	30115	30125
	Type	24 V AC/DC	110 V AC/DC	230 V AC/DC
		LED and VDR	LED and VDR	LED and VDR
		metric	metric	metric
	Circuit diagram			
	Contact figure	Cable outlet can be turned in 90° steps		
	Contact layout			
Technical Data				
	Operating voltage	24 V AC/DC ±10 %	110 V AC/DC ±10 %	230 V AC/DC ±10 %
	Operating current per contact	max. 1.5 A		
	Connection cross section	0.34...0.5 mm²		
	Sealing range (cable diameter)	4...6 mm		
	Locking of ports	M2.5 (couple de serrage recommandé 0,4 Nm)		
	Compression gland	M12 × 1.75 mm		
	Contact figure	Cable outlet can be turned in 90° steps		
	Protection	IP65 inserted and tightened		
	Temperature range	-40...+60 °C		
Article No.				
	The composition of your article number is explained on page 3.1.i	7 0 0 0 - - 0 0 0 0 0 0 0		
		1 Form		
Notes				
	Other versions on request.			

VALVE CONNECTORS

SVS Eco, LED

– Field-wireable

– Screw terminals

Approvals: 

Form CI (9.4 mm)

Industrial standard



1 Form

30205

30215

Type

24 V AC/DC

110 V AC/DC

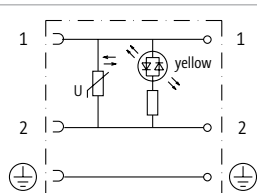
LED and VDR

LED and VDR

metric

metric

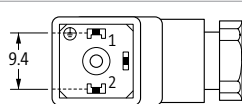
Circuit diagram



Contact figure

Cable outlet can be turned in 90° steps

Contact layout



Technical Data

Operating voltage	24 V AC/DC ±10 %	110 V AC/DC ±10 %
Operating current per contact	max. 1.5 A	
Connection cross section	0.34...0.5 mm²	
Sealing range (cable diameter)	4...6 mm	
Locking of ports	M3 (recommended torque 0.4 Nm)	
Compression gland	M12 × 1.75 mm	
Contact figure	Cable outlet can be turned in 90° steps	
Protection	IP65 inserted and tightened	
Temperature range	-40...+60 °C	

Article No.

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

7 0 0 0

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0 0 0

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1 Form

Notes

Other versions on request.

VALVE CONNECTORS

Labeling accessories			Art-No.
	ACS label plate KM 5		
	for self marking (9 × 20 mm)		7000-99001-0000000
	for self marking with ADEMARK markers		7000-99003-0000000
Gasket accessories			Art-No.
	Silicon gasket		
		Valve plug (form A)	7000-99011-0000000
		Valve plug (form A)	7000-99012-0000000
	Silicon gasket		
		Valve plug (form B, BI)	7000-99013-0000000
		Valve plug (form B, BI)	7000-99014-0000000
	Accessories set		
	Fixing screw, isolation plate, label plate, flat gasket	Valve plug (form A)	7000-99015-0000000
	Fixing screw, isolation plate, label plate, flat gasket	Valve plug (form A), field wireable	7000-99016-0000000
	Fixing screw, isolation plate, label plate, flat gasket	Valve plug (form B, BI)	7000-99017-0000000
	Fixing screw, isolation plate, label plate, flat gasket	Valve plug (form B, BI), field wireable	7000-99018-0000000
	Fixing screw, isolation plate, label plate, flat gasket	Valve plug (form C)	7000-99019-0000000
	Fixing screw, isolation plate, label plate, flat gasket	Valve plug (form CI)	7000-99020-0000000
	Hexagonal screw		
	Metal	Valve plug (form A)	7000-99021-0000000
	Metal	Valve plug (form A, B, BI), field wireable	7000-99022-0000000
	Plastic	Valve plug (form A)	7000-99023-0000000
	Gasket for valve plug socket		
	2 contacts + PE and 3 contacts + PE	Valve plug (form A)	7000-99251-0000000
	2 contacts + PE	Valve plug (form B)	7000-99271-0000000
	2 contacts + PE	Valve plug (form BI)	7000-99261-0000000
	2 contacts + PE and 3 contacts + PE	Valve plug (form C)	7000-99291-0000000
	2 contacts + PE and 3 contacts + PE	Valve plug (form CI)	7000-99281-0000000
End fitting accessories			Art-No.
	Cable compression gland PG 9		
	(gray)	Valve plug (form A, B, BI), field wireable	7000-99025-0000000
	(black)	Valve plug (form A, B, BI), field wireable	7000-99026-0000000

VALVE CONNECTORS

End fitting accessories			Art-No.
	Tube adapter snap-in for corrugated tube (size 13mm)	Cable diameter (4...7 mm)	7000-99081-0000000
	Valve plug socket 2 contacts + PE	Valve plug (form A)	7000-99201-0000000
	2 contacts + PE	Valve plug (form B)	7000-99221-0000000
	2 contacts + PE	Valve plug (form BI)	7000-99211-0000000
	2 contacts + PE	Valve plug (form C)	7000-99241-0000000
	2 contacts + PE	Valve plug (form CI)	7000-99231-0000000
	Valve plug socket 3 contacts + PE	Valve plug (form A)	7000-99205-0000000
	3 contacts + PE	Valve plug (form C)	7000-99245-0000000
	3 contacts + PE	Valve plug (form CI)	7000-99235-0000000

Cables								
violet	No./diameter of wires	Wire isolation	C-track properties	Jacket	Outer Ø mm	Bend radius (moving)	Temperature range (fixed)	Temperature range (mobile)
840 shielded	1×2×Ø 0.64mm	PE (rd, gn)	10 million	PUR (UL/CSA)	approx. 7.8	15 × outer Ø	-40...+80 °C	-20...+70 °C
841 shielded	1×2×Ø 0.64mm	PE (rd, gn)	3 million	PUR (UL/CSA)	approx. 7.7	15 × outer Ø	-40...+80 °C	-20...+70 °C
843 shielded	1×2×Ø 0.64mm	PE (rd, gn)		PUR (UL/CSA)	approx. 8.0	15 × outer Ø	-40...+80 °C	-20...+80 °C
850 shielded	1×2×Ø 0.64mm	PE (rd, gn)		PVC (UL/CSA)	approx. 7.8	15 × outer Ø	-20...+70 °C	-5...+60 °C

yellow	gray	black	No./diameter of wires	Wire isolation	C-track properties	Jacket	Outer Ø mm	Bend radius (moving)	Temperature range (fixed)	Temperature range (mobile)
010	210	610	3 × 0.25 mm²	PVC (br, bl, bk)		PVC (UL/CSA)	approx. 4.5	10 × outer Ø	-30...+80 °C	-5...+80 °C
020	220	620	3 × 0.25 mm²	PVC (br, bl, bk)	2 million	PUR/PVC	approx. 4.5	15 × outer Ø	-30...+80 °C	-5...+80 °C
030	230	630	3 × 0.25 mm²	PP (br, bl, bk)	5 million	PUR (UL/CSA)	approx. 4.1	10 × outer Ø	-40...+80 °C	-25...+80 °C
050	250	650	3 × 0.25 mm²	PP (br, bl, bk)	10 million	PUR (UL/CSA),welding spark res.	approx. 4.1	10 × outer Ø	-40...+90 °C	-25...+90 °C
011	211	611	4 × 0.25 mm²	PVC (br, wh, bl, bk)		PVC (UL/CSA)	approx. 4.8	10 × outer Ø	-30...+80 °C	-5...+80 °C
021	221	621	4 × 0.25 mm²	PVC (br, wh, bl, bk)	2 million	PUR/PVC	approx. 4.8	15 × outer Ø	-30...+80 °C	-5...+80 °C
031	231	631	4 × 0.25 mm²	PP (br, wh, bl, bk)	5 million	PUR (UL/CSA)	approx. 4.4	10 × outer Ø	-40...+80 °C	-25...+80 °C
051	251	651	4 × 0.25 mm²	PP (br, wh, bl, bk)	10 million	PUR (UL/CSA),welding spark res.	approx. 4.4	10 × outer Ø	-40...+90 °C	-25...+90 °C
013	213	613	3 × 0.34 mm²	PVC (br, bl, bk)		PVC (UL/CSA)	approx. 4.6	10 × outer Ø	-30...+80 °C	-5...+80 °C
023	223	623	3 × 0.34 mm²	PVC (br, bl, bk)	2 million	PUR/PVC	approx. 4.9	15 × outer Ø	-30...+80 °C	-5...+80 °C
033	233	633	3 × 0.34 mm²	PP (br, bl, bk)	5 million	PUR (UL/CSA)	approx. 4.3	10 × outer Ø	-40...+80 °C	-25...+80 °C
053	253	653	3 × 0.34 mm²	PP (br, bl, bk)	10 million	PUR (UL/CSA),welding spark res.	approx. 4.3	10 × outer Ø	-40...+90 °C	-25...+90 °C
014	214	614	4 × 0.34 mm²	PVC (br, wh, bl, bk)		PVC (UL/CSA)	approx. 5.0	10 × outer Ø	-30...+80 °C	-5...+80 °C
024	224	624	4 × 0.34 mm²	PVC (br, wh, bl, bk)	2 million	PUR/PVC	approx. 5.2	15 × outer Ø	-30...+80 °C	-5...+80 °C
034	234	634	4 × 0.34 mm²	PP (br, wh, bl, bk)	5 million	PUR (UL/CSA)	approx. 4.7	10 × outer Ø	-40...+80 °C	-25...+80 °C
054	254	654	4 × 0.34 mm²	PP (br, wh, bl, bk)	10 million	PUR (UL/CSA),welding spark res.	approx. 4.7	10 × outer Ø	-40...+90 °C	-25...+90 °C
015	215	615	5 × 0.34 mm²	PVC (br, wh, bl, bk, gnye)		PVC (UL/CSA)	approx. 5.2	10 × outer Ø	-30...+80 °C	-5...+80 °C
025	225	625	5 × 0.34 mm²	PVC (br, wh, bl, bk, gnye)	2 million	PUR/PVC	approx. 5.9	15 × outer Ø	-30...+80 °C	-5...+80 °C
035	235	635	5 × 0.34 mm²	PP (br, wh, bl, bk, gnye)	5 million	PUR (UL/CSA)	approx. 5.0	10 × outer Ø	-40...+80 °C	-25...+80 °C
126	–	732	5 × 0.34 mm²	PP (br, wh, bl, bk, gr)	5 million	PUR (UL/CSA)	approx. 5.0	10 × outer Ø	-40...+80 °C	-25...+80 °C
055	255	655	5 × 0.34 mm²	PP (br, wh, bl, bk, gnye)	10 million	PUR (UL/CSA),welding spark res.	approx. 5.0	10 × outer Ø	-40...+90 °C	-25...+90 °C

gray	black	No./diameter of wires	Wire isolation	C-track properties	Jacket	Outer Ø mm	Bend radius (moving)	Temperature range (fixed)	Temperature range (mobile)
200 shielded	600 shielded	3 × 0.34 mm²	PVC (br, bl, bk)		PVC (UL/CSA)	approx. 5.0	10 × outer Ø	-30...+80 °C	-5...+80 °C
201 shielded	601 shielded	4 × 0.34 mm²	PVC (br, wh, bl, bk)		PVC (UL/CSA)	approx. 5.3	10 × outer Ø	-30...+80 °C	-5...+80 °C
240 shielded	640 shielded	3 × 0.34 mm²	PP (br, bl, bk)	5 million	PUR (UL/CSA)	approx. 5.0	10 × outer Ø	-40...+80 °C	-25...+80 °C
241 shielded	641 shielded	4 × 0.34 mm²	PP (br, wh, bl, bk)	5 million	PUR (UL/CSA)	approx. 5.3	10 × outer Ø	-40...+80 °C	-25...+80 °C

TECHNICAL APPENDIX

Cables									
yellow	black	No./diameter of wires	Wire isolation	C-track properties	Jacket	Outer Ø mm	Bend radius (moving)	Temperature range (fixed)	Temperature range (mobile)
014	614	4 × 0.34 mm²	PVC (br, wh, bl, bk)		PVC (UL/CSA)	approx. 5.0	10 × outer Ø	-30...+80 °C	-5...+80 °C
034	634	4 × 0.34 mm²	PP (br, wh, bl, bk)	5 million	PUR (UL/CSA)	approx. 4.7	10 × outer Ø	-40...+80 °C	-25...+80 °C

green	No./diameter of wires	Wire isolation	C-track properties	Jacket	Outer Ø mm	Bend radius (moving)	Temperature range (fixed)	Temperature range (mobile)
793 shielded	2 × 2 × 0.34 mm²	PE (wh, ye, bl, or)		PUR (UL/CSA)	approx. 6.7	12 × outer Ø	-40...+80 °C	-20...+60 °C
794 shielded	2 × 2 × 0.34 mm²	PE (wh, ye, bl, or)		PUR (UL/CSA)	approx. 6.7	12 × outer Ø	-40...+80 °C	-20...+60 °C

green	violet	No./diameter of wires	Wire isolation	C-track properties	Jacket	Outer Ø mm	Bend radius (moving)	Temperature range (fixed)	Temperature range (mobile)
796 shielded	798 shielded	2 × 2 × 0.34 mm²	PE (wh, ye, bl, or)	5 million	PUR (UL/CSA)	approx. 6.7	15 × outer Ø	-25...+80 °C	-20...+60 °C

gray	No./diameter of wires	Wire isolation	C-track properties	Jacket	Outer Ø mm	Bend radius (moving)	Temperature range (fixed)	Temperature range (mobile)
210	3 × 0.25 mm²	PVC (br, bl, bk)		PVC (UL/CSA)	approx. 4.5	10 × outer Ø	-30...+80 °C	-5...+80 °C
211	4 × 0.25 mm²	PVC (br, wh, bl, bk)		PVC (UL/CSA)	approx. 4.8	10 × outer Ø	-30...+80 °C	-5...+80 °C
214	4 × 0.34 mm²	PVC (br, wh, bl, bk)		PVC (UL/CSA)	approx. 5.0	10 × outer Ø	-30...+80 °C	-5...+80 °C
214	4 × 0.34 mm²	PVC (br, wh, bl, bk)		PVC (UL/CSA)	approx. 5.0	10 × outer Ø	-30...+80 °C	-5...+80 °C
291 shielded	8 × 0.25 mm²	PP (wh, br, gn, ye, gr, pk, bl, rd)	2 million	PUR	approx. 7.0	15 × outer Ø	-40...+80 °C	-20...+80 °C
292	8 × 0.25 mm²	PP (wh, br, gn, ye, gr, pk, bl, rd)	2 million	PUR	approx. 6.0	15 × outer Ø	-40...+80 °C	-20...+80 °C
294 shielded	8 × 0.25 mm²	PP (br, wh, bl, bk, gr, pk, vi, or)	2 million	PUR (UL/CSA)	approx. 7.0	10 × outer Ø	-40...+80 °C	-20...+80 °C
295	8 × 0.25 mm²	PP (br, wh, bl, bk, gr, pk, vi, or)	2 million	PUR (UL/CSA)	approx. 6.0	10 × outer Ø	-40...+80 °C	-20...+80 °C
301	12 × 0.25 mm²	PP (br, bl, wh, gn, pk, ye, bk, gr, rd, vi, grp, rdbl)	3 million	PUR (UL/CSA)	approx. 6.9	15 × outer Ø	-40...+80 °C	-20...+80 °C
317 shielded	3 × 0.34 mm²	PVC (br, bl, bk)		PVC	approx. 5.9	15 × outer Ø	-40...+80 °C	-5...+80 °C
318 shielded	3 × 0.34 mm²	PVC (br, bl, bk)		PUR/PVC	approx. 5.9	15 × outer Ø	-30...+80 °C	-5...+70 °C
330 shielded	4 × 0.34 mm²	PVC (br, wh, bl, bk)		PVC	approx. 5.9	15 × outer Ø	-30...+80 °C	-5...+70 °C
330 shielded	4 × 0.34 mm²	PVC (br, wh, bl, bk)		PVC	approx. 5.9	15 × outer Ø	-30...+80 °C	-5...+70 °C
331 shielded	4 × 0.34 mm²	PVC (br, wh, bl, bk)		PUR/PVC	approx. 5.9	15 × outer Ø	-30...+80 °C	-5...+70 °C
331 shielded	4 × 0.34 mm²	PVC (br, wh, bl, bk)		PUR/PVC	approx. 5.9	15 × outer Ø	-30...+80 °C	-5...+70 °C
336	4 × 0.34 mm²	TPE-S (br, wh, bl, bk)		TPE-S	approx. 5.2	15 × outer Ø	-50...+125 °C	-30...+105 °C
348 shielded	5 × 0.34 mm²	PVC (br, wh, bl, bk, gnye)		PVC	approx. 5.9	15 × outer Ø	-30...+80 °C	-5...+70 °C
348 shielded	5 × 0.34 mm²	PVC (br, wh, bl, bk, gnye)		PVC	approx. 5.9	15 × outer Ø	-30...+80 °C	-5...+70 °C
349 shielded	5 × 0.34 mm²	PVC (br, wh, bl, bk, gnye)		PUR/PVC	approx. 5.9	15 × outer Ø	-40...+80 °C	-5...+70 °C
414	2 × 0.5 mm²	PP (br, bl)	5 million	PUR (UL/CSA)	approx. 4.4	10 × outer Ø	-25...+80 °C	-25...+80 °C

Cables								
gray	No./diameter of wires	Wire isolation	C-track properties	Jacket	Outer Ø mm	Bend radius (moving)	Temperature range (fixed)	Temperature range (mobile)
588	2 × 1.5 mm ²	PP (br, bl)		PUR (UL/CSA)	approx. 8.0	10 × outer Ø	-50...+80 °C	-25...+80 °C
862	4 × 0.75 mm ²	PP (br, wh, bl, bk)	5 million	PUR (UL/CSA)	approx. 6.5	10 × outer Ø	-40...+80 °C	-20...+80 °C
961	5 × 1.5 mm ²	PP (br, wh, bl, bk, gnye, num.)	5 million	PUR (UL/CSA)	approx. 8.7	10 × outer Ø	-50...+80 °C	-20...+80 °C
962	5 × 2.5 mm ²	PP (br, wh, bl, bk, gnye, num.)	5 million	PUR (UL/CSA)	approx. 9.7	10 × outer Ø	-50...+80 °C	-20...+80 °C
965	5 × 1.0 mm ²	PP (br, wh, bl, bk, gnye, num.)		PUR/PVC	approx. 7.2	10 × outer Ø	-30...+70 °C	-5...+70 °C

green	No./diameter of wires	Wire isolation	C-track properties	Jacket	Outer Ø mm	Bend radius (moving)	Temperature range (fixed)	Temperature range (mobile)
791	1 × 4 × 0.15 mm ²	PE (wh, ye, bl, or)		PUR (UL/CSA)	approx. 4.9	12 × outer Ø	-20...+80 °C	-20...+50 °C
794 shielded	2 × 2 × 0.34 mm ²	PE (wh, ye, bl, or)		PUR (UL/CSA)	approx. 6.7	12 × outer Ø	-40...+80 °C	-20...+60 °C
796 shielded	2 × 2 × 0.34 mm ²	PE (wh, ye, bl, or)	5 million	PUR (UL/CSA)	approx. 6.7	15 × outer Ø	-25...+80 °C	-20...+60 °C
802 shielded	4×0.5 + 2×0.25 mm ²	PP (br, bl, bk, wh), (gr, pk)	5 million	PUR (UL/CSA)	approx. 7.9	10 × outer Ø	-40...+90 °C	0...+90 °C
820 shielded	4 × 0.34 mm ²	TPE (br, bl, bk, wh)		PUR	approx. 5.9	10 × outer Ø	-50...+80 °C	-40...+80 °C

violet	No./diameter of wires	Wire isolation	C-track properties	Jacket	Outer Ø mm	Bend radius (moving)	Temperature range (fixed)	Temperature range (mobile)
803 shielded	2×0.25 + 2×0.34 mm ²	PE (rd, bk), (bl, wh)	5 million	PUR (UL/CSA)	approx. 6.9	15 × outer Ø	-40...+80 °C	-20...+80 °C

black	No./diameter of wires	Wire isolation	C-track properties	Jacket	Outer Ø mm	Bend radius (moving)	Temperature range (fixed)	Temperature range (mobile)
634	4 × 0.34 mm ²	PP (br, wh, bl, bk)	5 million	PUR (UL/CSA)	approx. 4.7	10 × outer Ø	-40...+80 °C	-25...+80 °C
702	12 × 0.14 mm ²	PVC (br, bl, wh, gn, pk, ye, bk, gr, rd, vi, grpk, rdbl)		PVC	approx. 6.0	10 × outer Ø	-30...+70 °C	-5...+70 °C
703 shielded	12 × 0.14 mm ²	PVC (br, bl, wh, gn, pk, ye, bk, gr, rd, vi, grpk, rdbl)		PVC	approx. 6.5	10 × outer Ø	-30...+70 °C	-5...+70 °C
705	12 × 0.14 mm ²	PP (br, bl, wh, gn, pk, ye, bk, gr, rd, vi, grpk, rdbl)	2 million	PUR (UL/CSA)	approx. 6.0	10 × outer Ø	-40...+85 °C	-25...+85 °C
706 shielded	12 × 0.14 mm ²	PP (br, bl, wh, gn, pk, ye, bk, gr, rd, vi, grpk, rdbl)	2 million	PUR (UL/CSA)	approx. 6.5	10 × outer Ø	-40...+85 °C	-25...+85 °C
740	2 × 0.5 mm ²	TPE-E (bk, wh)	2 million	PUR	approx. 5.0	10 × outer Ø	-50...+90 °C	-30...+90 °C
750	2 × 0.75 mm ²	PVC (br, bl)		PUR/PVC	approx. 5.9	15 × outer Ø	-40...+80 °C	-5...+80 °C
752	2 × 0.75 mm ²	PVC (br, bl)		PVC	approx. 5.2	15 × outer Ø	-30...+70 °C	-5...+70 °C

TECHNICAL APPENDIX

Cables										
yellow	gray	black	No./diameter of wires	Wire isolation	C-track properties	Jacket	Outer Ø mm	Bend radius (moving)	Temperature range (fixed)	Temperature range (mobile)
016	216	616	3 × 0.75 mm²	PVC (bk, num, gnye)		PVC	approx. 5.9	10 × outer Ø	-30...+70 °C	-5...+70 °C
026	226	626	3 × 0.75 mm²	PVC (bk, num, gnye)	2 million	PUR/PVC	approx. 5.9	15 × outer Ø	-30...+80 °C	-5...+80 °C
036	236	636	3 × 0.75 mm²	PP (bk, num, gnye)	5 million	PUR (UL/CSA)	approx. 5.9	10 × outer Ø	-40...+80 °C	-25...+80 °C
056	256	656	3 × 0.75 mm²	TPE (bk, numbered, gnye)	10 million	PUR (UL/CSA),welding spark res.	approx. 5.2	10 × outer Ø	-40...+90 °C	-25...+90 °C
016	216	616	3 × 0.75 mm²	PVC (bk, num, gnye)		PVC	approx. 5.9	10 × outer Ø	-30...+70 °C	-5...+70 °C
026	226	626	3 × 0.75 mm²	PVC (bk, num, gnye)	2 million	PUR/PVC	approx. 5.9	15 × outer Ø	-30...+80 °C	-5...+80 °C
036	236	636	3 × 0.75 mm²	PP (bk, num, gnye)	5 million	PUR (UL/CSA)	approx. 5.9	10 × outer Ø	-40...+80 °C	-25...+80 °C
017	217	617	4 × 0.75 mm²	PVC (bk, num, gnye)		PVC	approx. 6.2	10 × outer Ø	-30...+70 °C	-5...+70 °C
027	227	627	4 × 0.75 mm²	PVC (bk, num, gnye)	2 million	PUR/PVC	approx. 6.5	15 × outer Ø	-30...+80 °C	-5...+80 °C
037	237	637	4 × 0.75 mm²	PP (bk, num, gnye)	5 million	PUR (UL/CSA)	approx. 6.5	10 × outer Ø	-40...+80 °C	-25...+80 °C
018	218	618	5 × 0.75 mm²	PVC (bk, num, gnye)		PVC	approx. 7.0	10 × outer Ø	-30...+70 °C	-5...+70 °C
028	228	628	5 × 0.75 mm²	PVC (bk, num, gnye)	2 million	PUR/PVC	approx. 7.0	15 × outer Ø	-30...+80 °C	-5...+80 °C
038	238	638	5 × 0.75 mm²	PP (bk, num, gnye)	5 million	PUR (UL/CSA)	approx. 7.0	10 × outer Ø	-40...+80 °C	-25...+80 °C

multi-colored	No./diameter of wires	Wire isolation		Outer Ø mm	Bend radius (moving)	Temperature range (fixed)
970	3 × 0.34 mm²	PP (br, bk, bl)		approx. 2.7	10 × outer Ø	-40...+80 °C
971	4 × 0.34 mm²	PP (br, wh, bl, bk)		approx. 3.0	10 × outer Ø	-40...+80 °C
972	5 × 0.34 mm²	PP (br, wh, bl, bk, gr)		approx. 3.4	10 × outer Ø	-40...+80 °C
973	8 × 0.25 mm²	PP (wh, br, gn, ye, gr, pk, bl, rd)		approx. 4.4	10 × outer Ø	-40...+80 °C

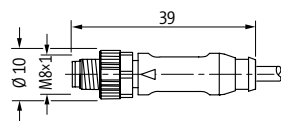
Wires	No./diameter of wires	Wire isolation	C-track properties	Outer Ø mm	Bend radius (moving)	Temperature range (fixed)
978	5 × 0.75 mm²	PVC (br, wh, bl, bk, gnye)		approx. 7.8	10 × outer Ø	-25...+85 °C

Cables							
gray	No./diameter of wires	C-track properties	Jacket	Outer Ø mm	Bend radius (moving)	Temperature range (fixed)	Temperature range (mobile)
333	4×0.34 + 3×0.75 mm ²	2 million	PUR/PVC	approx. 7.4	12 × outer Ø	-30...+80 °C	-5...+70 °C
334	4×0.34 + 2×0.75 mm ²	5 million	PUR (UL/CSA), halogen free	approx. 7.6	10 × outer Ø	-40...+80 °C	-5...+80 °C
337	4×0.34 + 2×0.75 mm ²	2 million	PUR/PVC	approx. 6.9	12 × outer Ø	-30...+80 °C	-5...+70 °C
350	6×0.34 + 2×0.75 mm ²	2 million	PUR/PVC	approx. 7.8	12 × outer Ø	-30...+80 °C	-5...+70 °C
356	6×0.34 + 2×0.75 mm ²	5 million	PUR (UL/CSA), halogen free	approx. 8.5	10 × outer Ø	-40...+80 °C	-5...+80 °C
357	8×0.34 + 2×0.75 mm ²	2 million	PUR/PVC	approx. 8.6	12 × outer Ø	-30...+80 °C	-5...+70 °C
358	8×0.34 + 2×0.75 mm ²	2 million	PUR/PVC	approx. 8.6	12 × outer Ø	-30...+80 °C	-5...+70 °C
359	8×0.34 + 2×0.75 mm ²	5 million	PUR (UL/CSA), halogen free	approx. 9.2	10 × outer Ø	-40...+80 °C	-5...+80 °C
360	8×0.34 + 2×0.75 mm ²	5 million	PUR (UL/CSA), halogen free	approx. 9.2	10 × outer Ø	-40...+80 °C	-5...+80 °C
362	8×0.34 + 3×0.75 mm ²	2 million	PUR/PVC	approx. 8.1	12 × outer Ø	-30...+80 °C	-5...+70 °C
362	8×0.34 + 3×0.75 mm ²	2 million	PUR/PVC	approx. 8.1	12 × outer Ø	-30...+80 °C	-5...+70 °C
363	8×0.34 + 3×0.75 mm ²	2 million	PUR/PVC	approx. 8.1	12 × outer Ø	-30...+80 °C	-5...+70 °C
373 shielded	8×0.34 + 3×0.75 mm ²	5 million	PUR (UL/CSA), halogen free	approx. 9.3	12 × outer Ø	-40...+90 °C	-40...+90 °C
374	8×0.34 + 5×0.75 mm ²	2 million	PUR/PVC	approx. 10.5	12 × outer Ø	-30...+80 °C	-5...+70 °C
384	10×0.34 + 2×0.75 mm ²	5 million	PUR (UL/CSA), halogen free	approx. 9.3	10 × outer Ø	-40...+80 °C	-5...+80 °C
385	10×0.34 + 2×0.75 mm ²	2 million	PUR/PVC	approx. 8.3	12 × outer Ø	-30...+80 °C	-5...+70 °C
386	12×0.34 + 2×0.75 mm ²	2 million	PUR/PVC	approx. 8.8	12 × outer Ø	-30...+80 °C	-5...+70 °C
389	12×0.34 + 2×0.75 mm ²	5 million	PUR (UL/CSA), halogen free	approx. 9.5	10 × outer Ø	-40...+80 °C	-5...+80 °C
395	16×0.34 + 2×0.75 mm ²	2 million	PUR/PVC	approx. 9.6	12 × outer Ø	-30...+80 °C	-5...+70 °C
396	16×0.34 + 2×0.75 mm ²	5 million	PUR (UL/CSA), halogen free	approx. 10.4	10 × outer Ø	-40...+80 °C	-5...+80 °C
398	16×0.34 + 3×0.75 mm ²	2 million	PUR/PVC	approx. 10.0	12 × outer Ø	-30...+80 °C	-5...+70 °C
398	16×0.34 + 3×0.75 mm ²	2 million	PUR/PVC	approx. 10.0	12 × outer Ø	-30...+80 °C	-5...+70 °C
401 shielded	16×0.34 + 3×0.75 mm ²	5 million	PUR (UL/CSA), halogen free	approx. 11.7	12 × outer Ø	-40...+90 °C	-40...+90 °C
403	16×0.34 + 5×0.75 mm ²	5 million	PUR (UL/CSA), halogen free	approx. 11.5	10 × outer Ø	-40...+90 °C	-40...+90 °C
404	16×0.34 + 5×0.75 mm ²	2 million	PUR/PVC	approx. 12.5	12 × outer Ø	-30...+80 °C	-5...+70 °C
407	20×0.34 + 3×0.75 mm ²	2 million	PUR/PVC	approx. 10.0	12 × outer Ø	-30...+80 °C	-5...+70 °C
408	20×0.34 + 3×0.75 mm ²	5 million	PUR (UL/CSA), halogen free	approx. 10.0	10 × outer Ø	-40...+90 °C	-40...+90 °C
411	20×0.34 + 2×0.75 mm ²	5 million	PUR (UL/CSA), halogen free	approx. 11.3	10 × outer Ø	-40...+80 °C	-5...+80 °C
412	20×0.34 + 2×0.75 mm ²	2 million	PUR/PVC	approx. 10.4	12 × outer Ø	-30...+80 °C	-5...+70 °C
447	8×0.5 + 3×1.0 mm ²	5 million	PUR (UL/CSA), halogen free	approx. 9.4	10 × outer Ø	-40...+90 °C	-40...+90 °C
448	8×0.5 + 3×1.0 mm ²	5 million	PUR (UL/CSA), halogen free	approx. 9.4	10 × outer Ø	-40...+90 °C	-40...+90 °C
448	8×0.5 + 3×1.0 mm ²	5 million	PUR (UL/CSA), halogen free	approx. 9.4	10 × outer Ø	-40...+90 °C	-40...+90 °C
452	16×0.5 + 3×1.0 mm ²	5 million	PUR (UL/CSA), halogen free	approx. 11.5	10 × outer Ø	-40...+90 °C	-40...+90 °C
452	16×0.5 + 3×1.0 mm ²	5 million	PUR (UL/CSA), halogen free	approx. 11.5	10 × outer Ø	-40...+90 °C	-40...+90 °C
533	18 × 0.75 mm ²	2 million	PUR/PVC	approx. 11.7	12 × outer Ø	-40...+80 °C	-5...+70 °C

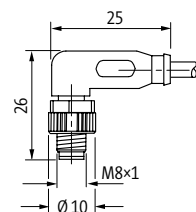
M8 Round Plug Connectors

Open ended wires

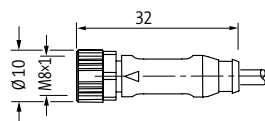
Male straight



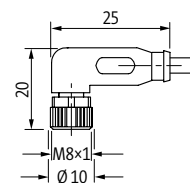
Male 90°



Female straight

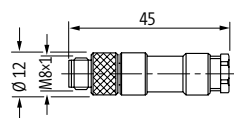


Female 90°

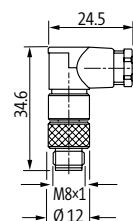


Field-wireable (solder pins)

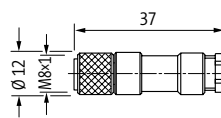
Male straight



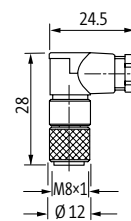
Male 90°



Female straight



Female 90°



max. 0.25 mm²

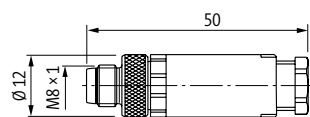
max. 0.25 mm²

max. 0.25 mm²

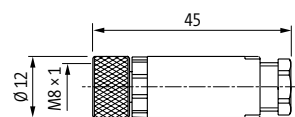
max. 0.25 mm²

Field wireable (screw terminals)

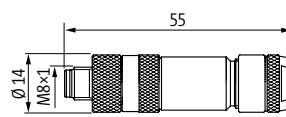
Male straight



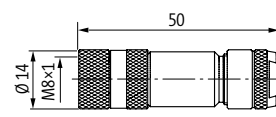
Female straight



Male straight, shielded



Female straight, shielded



0.14... 0.5 mm²

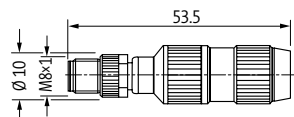
0.14... 0.5 mm²

0.14... 0.5 mm²

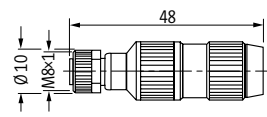
0.14... 0.5 mm²

Field-wireable (IDC terminals)

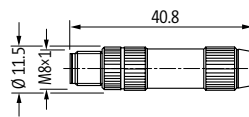
Male straight



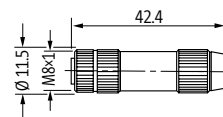
Female straight



Male straight



Female straight



0.25...0.5 mm²

0.25...0.5 mm²

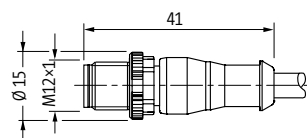
0.14...0.34 mm²

0.14...0.34 mm²

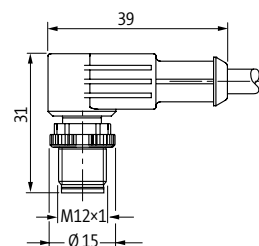
M12 Round Plug Connectors

Open ended wires

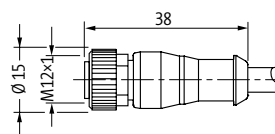
Male straight



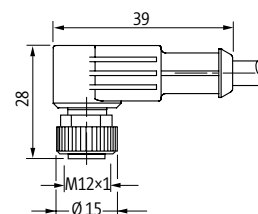
Male 90°



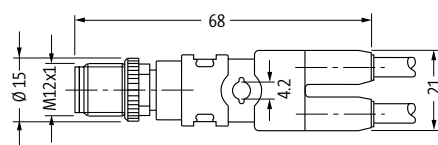
Female straight



Female 90°

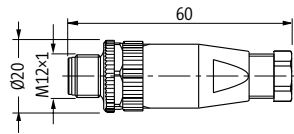


Male straight (Y connector)

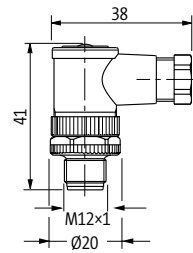


M12 Round Plug Connectors

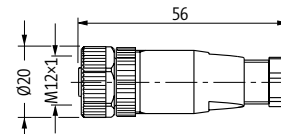
Male straight



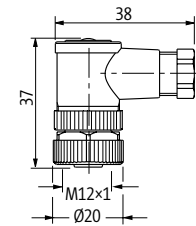
Male 90°



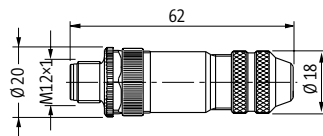
Female straight



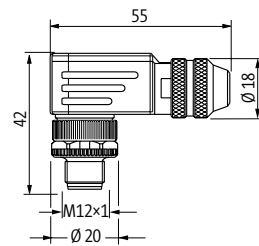
Female 90°



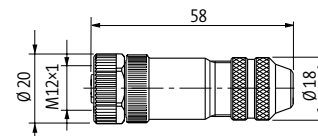
Male straight, shielded



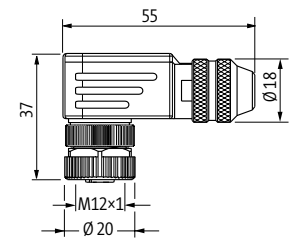
Male 90°, shielded



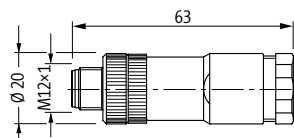
Female straight, shielded



Female 90°, shielded

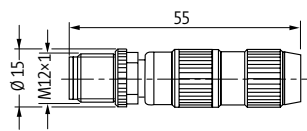


Male straight, shielded, Y connector

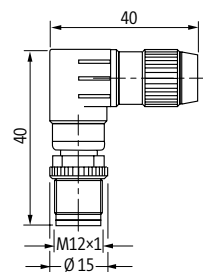


Field-wireable (IDC terminals)

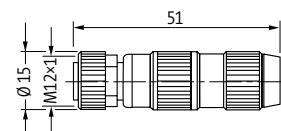
Male straight



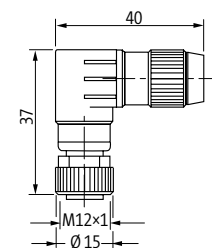
Male 90°



Female straight



Female 90°



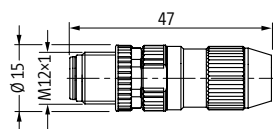
0.25...0.5 mm²

0.25...0.5 mm²

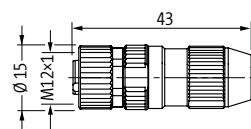
0.25...0.5 mm²

0.25...0.5 mm²

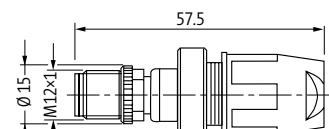
Male straight



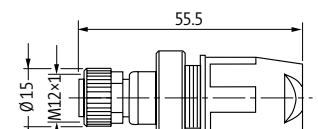
Female straight



Male straight



Female straight



0.14...0.34 mm²

0.14...0.34 mm²

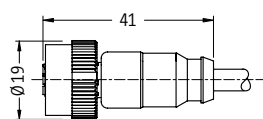
0.5...1.0 mm²

0.5...1.0 mm²

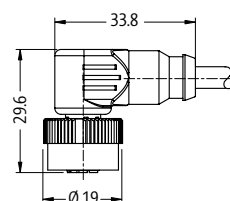
MQ12 Round Plug Connectors

Open ended wires

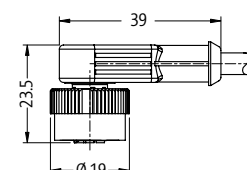
Female straight



Female 90°



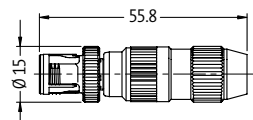
Female 90° with LED



TECHNICAL APPENDIX

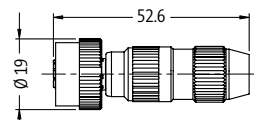
MQ12 Round Plug Connectors

Male straight



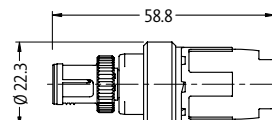
0.25...0.5 mm²

Female straight



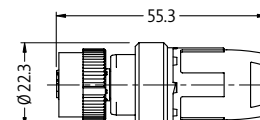
0.25...0.5 mm²

Male straight



0.5...1.0 mm²

Female straight

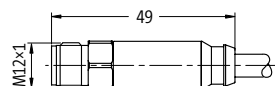


0.5...1.0 mm²

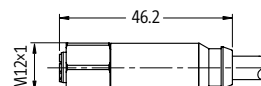
M12-Steel round plug connector

Open ended wires

Male straight

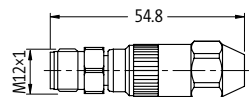


Female straight

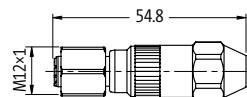


Field-wireable (IDC terminals)

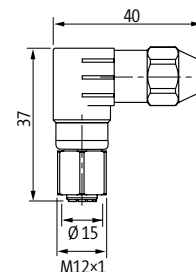
Male straight



Female straight



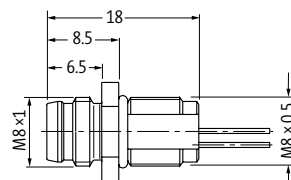
Female 90°



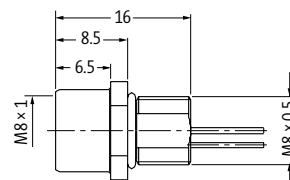
Flange connector M8, M12, 7/8"

Open ended wires

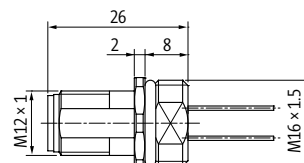
Male M8



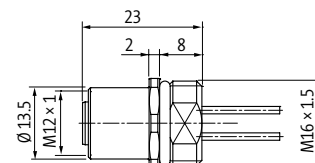
Female M8



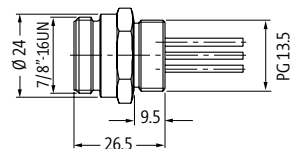
Male M12



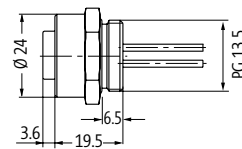
Female M12



Male 7/8"

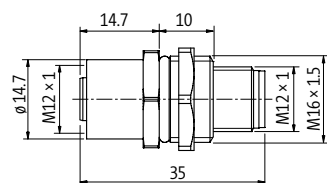


Female 7/8"



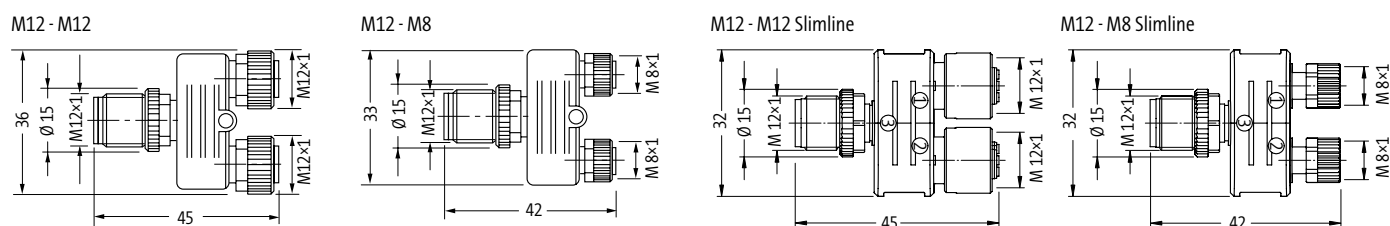
Control cabinet entry system M12

Male/Female

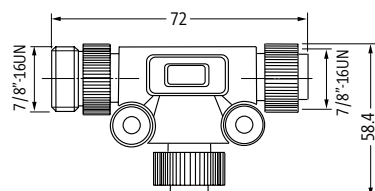


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T-couplers M8, M12, 7/8"



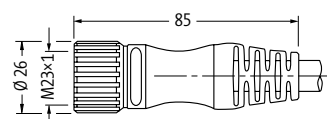
7/8"-7/8"



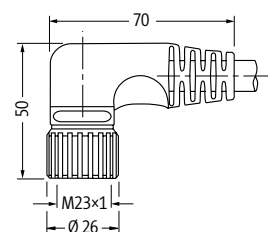
M23 Round Plug Connectors

Open ended wires

Female straight

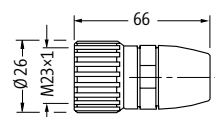


Female 90°

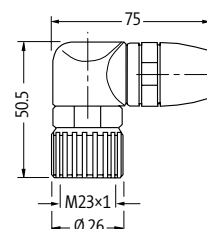


Field wireable (screw terminals)

Female straight, shielded



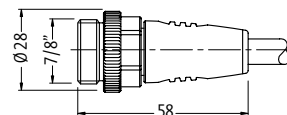
Female 90°, shielded



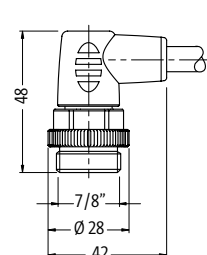
7/8" Round Plug Connectors

Open ended wires

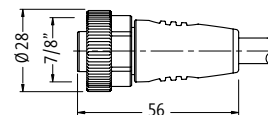
Male straight



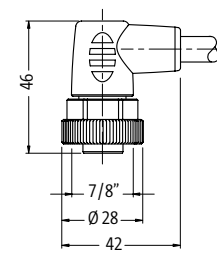
Male 90°



Female straight



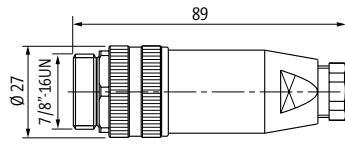
Female 90°



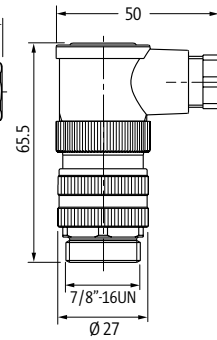
TECHNICAL APPENDIX

7/8" Round Plug Connectors

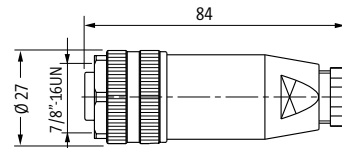
Male straight



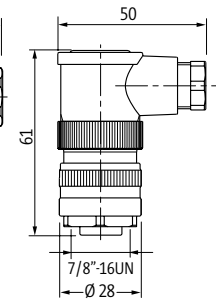
Male 90°



Female straight

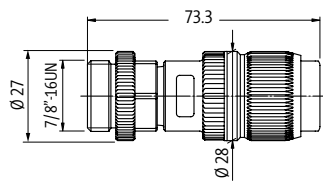


Female 90°

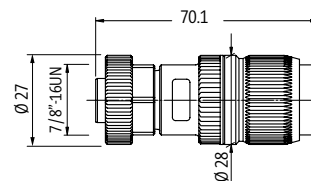


Field-wireable (IDC terminals)

Male straight



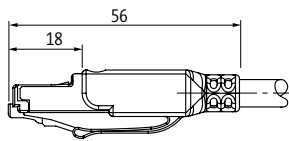
Female straight



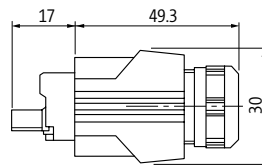
Plug connector RJ45

Open ended wires

Male straight, RJ45

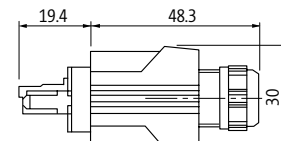


Male straight, Push Pull Power



Height: 36 mm

Male straight, Push Pull RJ45

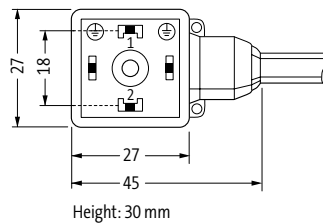


Height: 22 mm

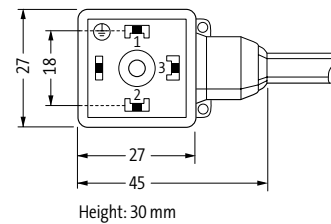
Valve plugs MSUD

Open ended wires

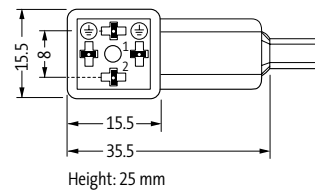
Form A (18 mm)



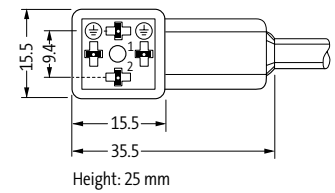
Form A (18 mm) for pressure switch



Form C (8 mm)

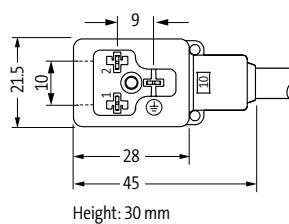


Form CI (9.4 mm)



Bridged PE

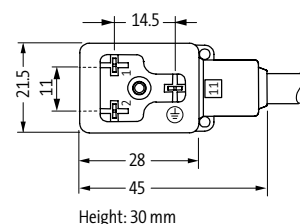
Form B (10 mm)



PE at cable entry (0°)

PE opposite cable entry (0°)

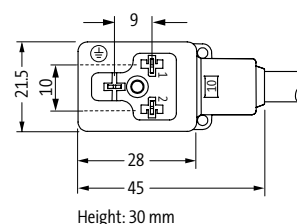
Form BI (11 mm)



PE at cable entry (0°)

Bridged PE

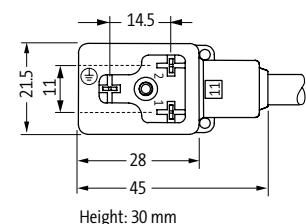
Form B (10 mm)



PE opposite cable entry (180°)

Bridged PE

Form BI (11 mm)

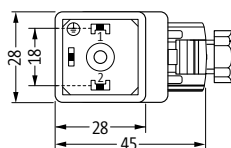


PE opposite cable entry (180°)

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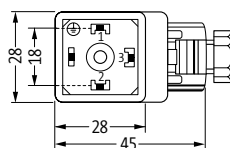
Valve plugs SVS

Form A (18 mm)



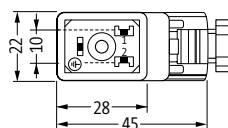
Height: 41 mm

Form A (18 mm) for pressure switch



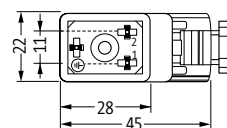
Height: 41 mm

Form B (10 mm)



Height: 41 mm

Form BI (11 mm)

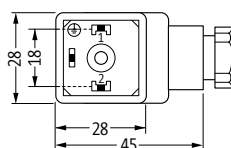


Height: 41 mm

Valve plugs SVS Eco

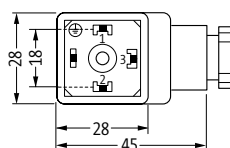
Field wireable (screw terminals)

Form A (18 mm)



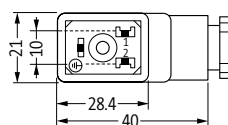
Height: 31 mm

Form A (18 mm) for pressure switch



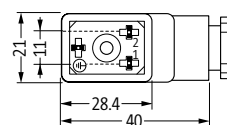
Height: 31 mm

Form B (10 mm)



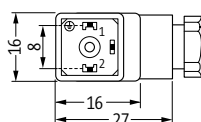
Height: 31 mm

Form BI (11 mm)



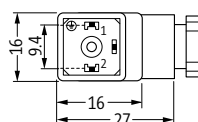
Height: 31 mm

Form C (8 mm)



Height: 26 mm

Form CI (9.4 mm)

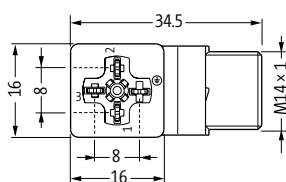


Height: 26 mm

Valve plugs MOSA

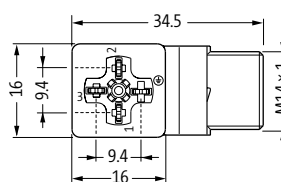
Field-wireable (IDC terminals)

Form C (8 mm)



Height: 28 mm

Form CI (9.4 mm)



Height: 28 mm