



FLANGE CONNECTORS READY FOR ANYTHING

- Molded PVC or 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. Encapsulated components guarantee a high level of short-circuit protection. In addition, the integrated anti-rotation protection makes installation very easy.

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

M8



- Male/female**
- 3-pole
 - 4-pole

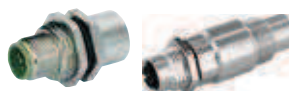
Page 3.4.1

M12



- Male/female**
- 3-pole
 - 4-pole
 - 5-pole
 - 8-pole

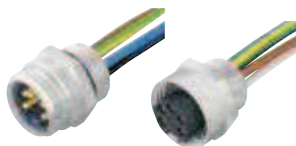
Page 3.4.2



- Control Cabinet Entry System
Male/female (shielded)**
- 5-pole
 - 6-pole
 - 8-pole

Page 3.4.12

Power



- 7/8"**
Male/female
- 5-pole

Page 3.4.4



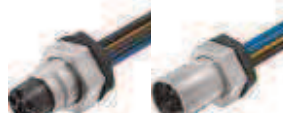
- M12 Power
Male/female**
- 4-pole
 - 5-pole

Page 3.4.5



- MQ15 X-Power
Male/female**
- 4-pole
 - 6-pole

Page 3.4.8



- MQ15 X-Power
Male/female (shielded housing)**
- 4-pole
 - 6-pole

Page 3.4.10

FLANGE CONNECTORS

With multi-strand wire

– M8

Flange male

Front mounting



Flange female

Front mounting



Approvals:

1 Form	08552	08562	08571	08581
Type	3-pole	4-pole	3-pole	4-pole
Circuit diagram				
Contact layout	<p>Male</p>	<p>Male</p>	<p>Female</p>	<p>Female</p>
2 Wires				
Wire diameter 0.25 mm ²	multi-colored	multi-colored	multi-colored	multi-colored
PP	970	969	970	969
PVC	910	911	910	911
Hexagonal nut M8 × 0.5	7000-08591-0000000			
3 Wires Length				
0.2 m	0020			
0.5 m	0050			
1.0 m	0100			
Technical Data				
Operating voltage	max. 50 V AC/60 V DC			
Protection	IP67 inserted and tightened (EN 60529)			
Temperature range	-25...+85 °C			
Article No.				
The composition of your article number is explained on page 3.1.i	<div style="display: flex; justify-content: space-around; align-items: center;"> 7 0 0 0 - - </div>			
	1	2	3	
	Form	Wires	Wires Length	
Notes	Other versions on request.			

Flange Connectors

FLANGE CONNECTORS

With multi-strand wire

- M12

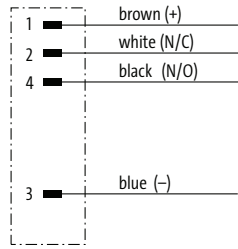
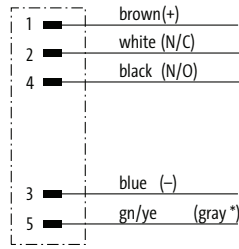
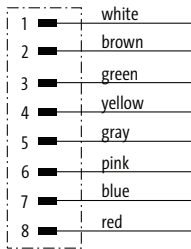


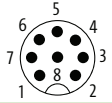
Flange male

Front mounting



Approvals: 

Flange Connectors

1 Form	13501	13521	17161
Type	4-pole	5-pole	8-pole
Circuit diagram		 <p>(* for cable type 902 and 972)</p>	
Contact layout	<p>Male</p> 	<p>Male</p> 	<p>Male</p> 
2 Wires			
Wire diameter 0.34 mm ²	multi-colored	multi-colored	multi-colored
PUR		975 (972)	
PVC	901	902	
PP	971		
Wire diameter 0.25 mm ²			
PP			973
PVC			903
Hexagonal nut M16 x 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. 30 V AC/DC
Protection	IP67 inserted and tightened (EN 60529)		
Temperature range	-25...+85 °C		
Article No.			
The composition of your article number is explained on page 3.1.i	<div style="display: flex; justify-content: space-around; align-items: center;"> 7 0 0 0 - _ _ _ _ _ _ </div>		
	1 Form	2 Wires	3 Wires Length
Notes	Other versions on request.		

FLANGE CONNECTORS

With multi-strand wire

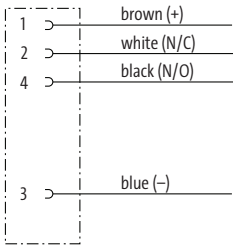
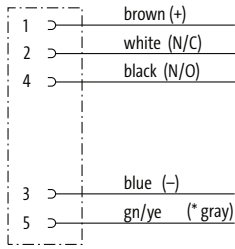




- M12

Flange female

Front mounting



Approvals: 

1 Form	13541	13561	17181
Type	4-pole	5-pole	8-pole
Circuit diagram		 <p>(* for cable type 902, 972)</p>	
Contact layout	<p>Female</p> 	<p>Female</p> 	<p>Female</p> 
2 Wires			
Wire diameter 0.34 mm²	multi-colored	multi-colored	multi-colored
PUR		975 (972)	
PVC	901	902	
PP	971		
Wire diameter 0.25 mm²			
PP			973
PVC			903
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. 30 V AC/DC
Protection	IP67 inserted and tightened (EN 60529)		
Temperature range	-25...+85 °C		
Article No.			
The composition of your article number is explained on page 3.1.i	<div style="display: flex; justify-content: space-around; align-items: center;"> 7 0 0 0 - - </div>		
	1 Form	2 Wires	3 Wires Length
Notes	Other versions on request.		

Flange Connectors

FLANGE CONNECTORS

With multi-strand wire

- 7/8"

Flange male
Front mounting



Flange female
Front mounting



1 Form

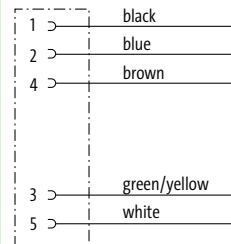
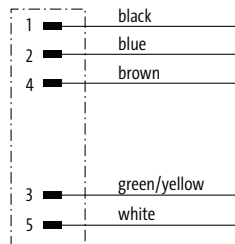
78341

78381

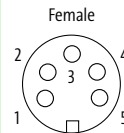
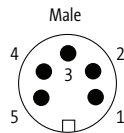
Type
Circuit diagram

5-pole

5-pole



Contact layout



2 Wires

5 x AWG18

multi-colored

multi-colored

PVC

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. 300 V AC/DC

Protection

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 0 0 - - - - -

1 Form

2 Wires

3 Wires Length

Notes

Other versions on request.

Flange Connectors

FLANGE CONNECTORS

With multi-strand wire

– M12 Power

Approvals: 

Flange male

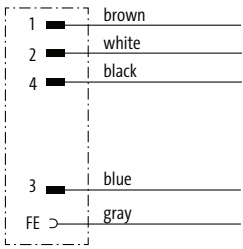
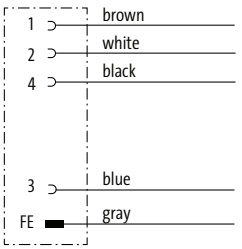
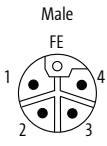
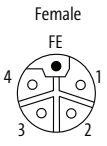
Front mounting



Flange female

Front mounting




1 Form	P4281	P4291
Type	5-pole L-coded	5-pole L-coded
Circuit diagram		
Contact layout	<p>Male</p> 	<p>Female</p> 
2 Wires	multi-colored	
Wire diameter 1.5 mm ² PUR	980	980
3 Wires Length	multi-colored	
0.2 m 0.5 m 1.0 m	0020 0050 0100	
Technical Data		
Operating voltage	max. 63 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	<div style="display: flex; justify-content: space-around; align-items: center;"> 7 0 0 0 – – – – – – – – – – </div>	
	1 Form	2 Wires
	3 Wires Length	
Notes	Other versions on request.	

FLANGE CONNECTORS

With multi-strand wire

– M12 Power

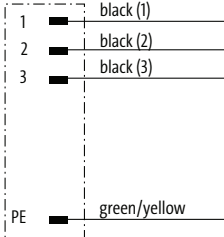
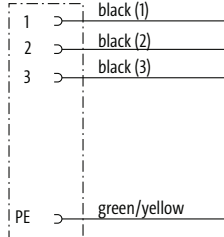
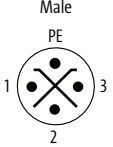
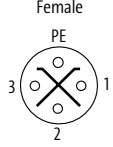
Approvals: 

Flange male
Front mounting



Flange female
Front mounting



1 Form	P 6281	P 6291	
Type	4-pole S-coded	4-pole S-coded	
Circuit diagram			
Contact layout	<p>Male</p> 	<p>Female</p> 	
2 Wires			
Wire diameter 1.5 mm ² mPPE	multi-colored 940	multi-colored 940	
3 Wires Length			
0.2 m	0020		
0.5 m	0050		
1.0 m	0100		
1.5 m	0150		
Technical Data			
Operating voltage	max. 630 V AC/DC		
Protection	IP67 inserted and tightened (EN 60529)		
Temperature range	-40...+85 °C, depending on cable quality		
Article No.			
The composition of your article number is explained on page 3.1.i	<div style="display: flex; justify-content: space-around; align-items: center;"> 7 0 0 0 - _ _ _ - _ _ _ </div>		
	1 Form	2 Wires	3 Wires Length
Notes	Other versions on request.		

Flange Connectors

FLANGE CONNECTORS

With multi-strand wire

– MQ15 X-Power

Flange male

Front mounting



Flange Connectors

1 Form	P8181	P8081	P8081
Type	6-pole max. 16 A (Power); max. 10 A (Signal)	4-pole Operating current: max. 13 A	4-pole Operating current: max. 16 A
Circuit diagram			
Contact layout			
2 Wires			
Wire diameter 2.5 mm ² PVC (UL)	multi-colored P80	multi-colored	multi-colored P82
Wire diameter 1.5 mm ² PVC (UL)		P81	
3 Wires Length			
0.25 m	0025		
0.5 m	0050		
1.0 m	0100		
Technical Data			
Operating voltage	max. 600 V AC (Power); max. 63 V AC/DC (Signal)	max. 600 V AC	
Protection	IP67 inserted and tightened (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	<div style="display: flex; justify-content: space-around; align-items: center;"> 7 0 0 0 - _ _ _ - _ _ _ </div>		
	1 Form	2 Wires	3 Wires Length
Notes	Other versions on request.		

FLANGE CONNECTORS

With multi-strand wire

– MQ15 X-Power

Flange female

Front mounting



1 Form		P8191	P8091
Type		6-pole max. 16 A (Power); max. 10 A (Signal)	4-pole Operating current: max. 13 A
Circuit diagram			
Contact layout			
2 Wires			
Wire diameter 2.5 mm ² PVC (UL)		multi-colored P80	multi-colored
Wire diameter 1.5 mm ² PVC (UL)			P81
3 Wires Length			
0.25 m		0025	
0.5 m		0050	
1.0 m		0100	
Technical Data			
Operating voltage		max. 600 V AC (Power); max. 63 V AC/DC (Signal)	max. 600 V AC
Protection		IP67 inserted and tightened (EN 60529)	
Temperature range		-40...+70 °C, depending on cable quality	-40...+90 °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 Wires
			3 Wires Length
Notes		Other versions on request.	

Flange Connectors

FLANGE CONNECTORS

With multi-strand wire

– MQ15 X-Power

– shielded housing

Flange male

Front mounting



1 Form	P 8381	P 8281	P 8281
Type	6-pole max. 16 A (Power); max. 10 A (Signal)	4-pole Operating current: max. 13 A	4-pole Operating current: max. 16 A
Circuit diagram			
Contact layout			
2 Wires			
Wire diameter 2.5 mm ² PVC (UL)	multi-colored P80	multi-colored	multi-colored P82
Wire diameter 1.5 mm ² PVC (UL)		P81	
3 Wires Length			
0.25 m	0025		
0.5 m	0050		
1.0 m	0100		
Technical Data			
Operating voltage	max. 600 V AC (Power); max. 63 V AC/DC (Signal)	max. 600 V AC	
Protection	IP67 inserted and tightened (EN 60529)		
Temperature range	-40...+90 °C, depending on cable quality		
Article No.			
The composition of your article number is explained on page 3.1.i	<div style="display: flex; justify-content: space-around; align-items: center;"> 7 0 0 0 - _ _ _ - _ _ _ </div>		
	1 Form	2 Wires	3 Wires Length
Notes	Other versions on request.		

FLANGE CONNECTORS

With multi-strand wire

– MQ15 X-Power

– shielded housing

Flange female

Front mounting



1 Form	P8391	P8291	P8291
Type	6-pole max. 16 A (Power); max. 10 A (Signal)	4-pole Operating current: max. 13 A	4-pole Operating current: max. 16 A
Circuit diagram			
Contact layout			
2 Wires			
Wire diameter 2.5 mm ² PVC (UL)	multi-colored P80	multi-colored	multi-colored P82
Wire diameter 1.5 mm ² PVC (UL)		P81	
3 Wires Length			
0.25 m	0025		
0.5 m	0050		
1.0 m	0100		
Technical Data			
Operating voltage	max. 600 V AC (Power); max. 63 V AC/DC (Signal)	max. 600 V AC	
Protection	IP67 inserted and tightened (EN 60529)		
Temperature range	-40...+90 °C, depending on cable quality		-40...+70 °C, depending on cable quality
Article No.			
The composition of your article number is explained on page 3.1.i	<div style="display: flex; justify-content: space-around; align-items: center;"> 7 0 0 0 - - </div>		
	1 Form	2 Wires	3 Wires Length
Notes	Other versions on request.		

FLANGE CONNECTORS

Control cabinet entry system

– M12 - M12

Male/female



1 Form	4 2111	4 4111	4 6111	4 8111
Type	5-pole, shielded	5-pole, shielded B-coded	6-pole, shielded	8-pole, shielded
Circuit diagram				
Contact layout	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Male</p> </div> <div style="text-align: center;"> <p>Female</p> </div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Male</p> </div> <div style="text-align: center;"> <p>Female</p> </div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Male</p> </div> <div style="text-align: center;"> <p>Female</p> </div> </div>	<div style="display: flex; justify-content: space-around;"> <div style="text-align: center;"> <p>Male</p> </div> <div style="text-align: center;"> <p>Female</p> </div> </div>
Technical Data				
Operating voltage	max. 60 V AC/DC		max. 30 V AC/DC	
Rated surge voltage	1.5 kV		0.8 kV	
Operating current per contact	max. 4 A			max. 2 A
Material group	IEC 60664-1, category I			
Coding	A-coded	B-coded	A-coded	
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)			
Material	Brass, nickel plated			
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>0</u> <u>0</u> <u>0</u>	<u>0</u> <u>0</u> <u>0</u> <u>0</u>
	1 Form			
Notes	Other versions on request.			

FLANGE CONNECTORS

Control cabinet entry system

– M12 - M12

EtherCAT  EtherNet/IP

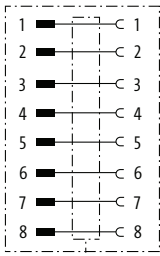
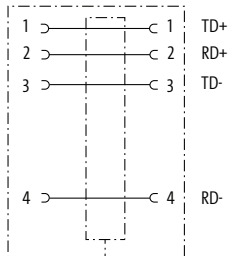
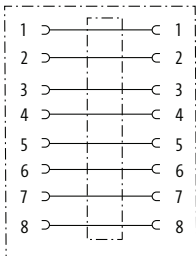
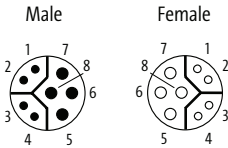
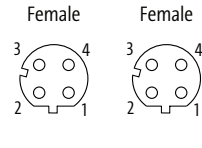
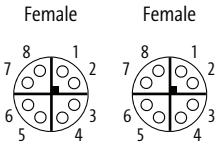
PROFI
NET

Male/female







Female/female



1 Form	47281	44611	51521
Type	8-pole, shielded Y-coded	4-pole, shielded D-coded	8-pole, shielded X-coded
Circuit diagram			
Contact layout	<p>Male Female</p> 	<p>Female Female</p> 	<p>Female Female</p> 
Technical Data			
Operating voltage	max. 30 V DC	max. 60 V AC/DC	max. 50 V AC/60 V DC
Rated surge voltage	0.8 kV		
Operating current per contact	max. 6 A	max. 4 A	max. 0.5 A
Operating current per contact (Signal)	max. 0.5 A	–	
Material group	IEC 60664-1, category I	–	IEC 60664-1, category III
Transfer parameters	CAT5, Class D (ISO/IEC 11801:2002), (EN 50173-1)		CAT6, Class EA (ISO/IEC 11801:2002), (EN 50173-1)
Transfer rate	to 100 Mbit/s Full Duplex		GIGABIT
Coding	Y-coded	D-coded	X-coded
Locking of ports	Screw thread M12 × 1 mm (recommended torque 0.6 Nm) self-securing		
Compression gland	M16 (SW19)		
Protection	IP65 and IP67 when plugged and screwed down (EN 60529)	IP67 inserted and tightened (EN 60529)	
Material	Brass, nickel plated		
Temperature range	-25...+85 °C		-40...+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>0</u> <u>0</u> <u>0</u>	<u>0</u> <u>0</u> <u>0</u> <u>0</u>
	1 Form		
Notes	Other versions on request.		

Flange Connectors

FLANGE CONNECTORS

Connection accessories			Art-No.
	Shielding plate	Quantity: 1 000 pcs.	7000-99951-000000
	Protection cap Flange M8 male	Quantity: 10 pcs.	7000-99901-000000
	Flange M12 male	Quantity: 10 pcs.	7000-99921-000000
	Protection cap Flange M8 female	Quantity: 10 pcs.	7000-99911-000000
			Flange M12 female Quantity: 10 pcs. 7000-99931-000000

Flange Connectors