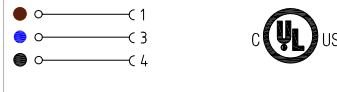
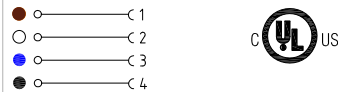
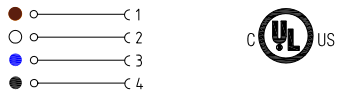
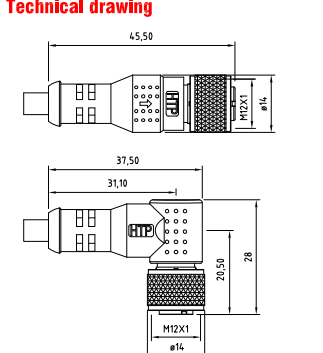
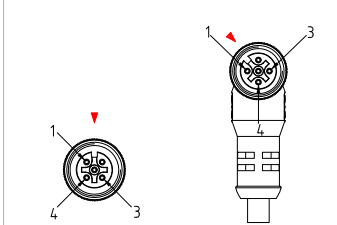
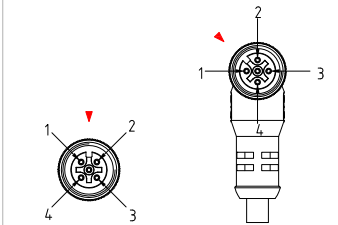
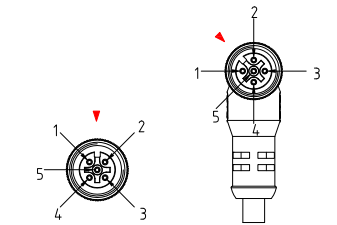


# M12 CIRCULAR CONNECTORS

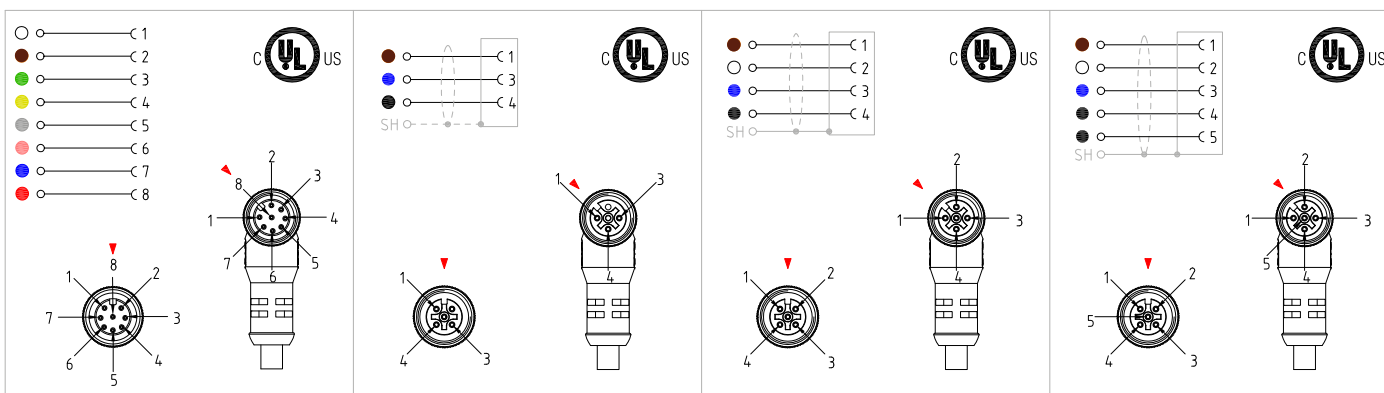
## Moulded cable connectors - A-coded



<b>Technical drawing</b>							
							
<b>Product description</b>							
Connector type	Circular connector with moulded cable		Circular connector with moulded cable		Circular connector with moulded cable		
Conforms to	IEC 61076-2-101 / UL approved		IEC 61076-2-101 / UL approved		IEC 61076-2-101 / UL approved		
Construction type	M12 A-Coded		M12 A-Coded		M12 A-Coded		
Description	Circular connector M12 series,ULapproved, with moulded cable		Circular connector M12 series,ULapproved, with moulded cable		Circular connector M12 series,ULapproved, with moulded cable		
Part number	<b>12FD311Z-UL</b>	<b>12FA311Z-UL</b>	<b>12FD411Z-UL</b>	<b>12FA411Z-UL</b>	<b>12FD511Z-UL</b>	<b>12FA511Z-UL</b>	
Housing type	Straight 180°	Angled 90°	Straight 180°	Angled 90°	Straight 180°	Angled 90°	
Cable gland	Moulded cable		Moulded cable		Moulded cable		
Contacts type	Female		Female		Female		
Number of contacts	3poles		4poles		5poles		
Housing colour	Black		Black		Black		
<b>Technical data</b>							
Type of termination	Contacts to crimp wires		Contacts to crimp wires		Contacts to crimp wires		
Contacts material	Brass + Gold flash		Brass + Gold flash		Brass + Gold flash		
Coupling nut type	Knurl round		Knurl round		Knurl round		
M12 coupling nut material	Brass + Nickel plated		Brass + Nickel plated		Brass + Nickel plated		
M12 coupling nut torque	0.4 N*m		0.4 N*m		0.4 N*m		
Rated voltage	250V AC/DC		250V AC/DC		60V AC/DC		
Rated current	4A		4A		4A		
O-ring material	NBR		NBR		NBR		
Cable type	PVC/PVC ULstyle 21179		PVC/PVC ULstyle 21179		PVC/PVC ULstyle 21179		
Cable jacket colour	Black		Black		Black		
No.Conductors / Section	3xAWG22 (0.34mm²)		4xAWG22 (0.34mm²)		5xAWG22 (0.34mm²)		
Conductor colours	Brown; Blue; Black		Brown; White; Blue; Black		Brown; White; Blue; Black; Grey		
Cable diameter	ø4.8mm (±0.3)		ø5.2mm (±0.3)		ø5.8mm (±0.3)		
Cable lenght	1m		1m		1m		
<b>Packaging</b>							
Qty/Bag	1 pc / bag		1 pc / bag		1 pc / bag		
<b>Other accessories options</b>							
See accessories section							
<b>Notes:</b>							
Connectors available with different feautres:							
See the general features and codification scheme page							
See the cables list section							

## M12 CIRCULAR CONNECTORS

Moulded cable connectors - A-coded



### Product description

Circular connector with moulded cable	Circular connector with moulded cable	Circular connector with moulded cable	Circular connector with moulded cable
IEC 61076-2-101 / UL approved	IEC 61076-2-101 / UL approved	IEC 61076-2-101 / UL approved	IEC 61076-2-101 / UL approved
M12 A-Coded	M12 A-Coded	M12 A-Coded	M12 A-Coded
Circular connector M12 series, UL approved, with moulded cable	Circular connector M12 series, UL approved, TOTALLY SHIELDED with moulded cable	Circular connector M12 series, UL approved, TOTALLY SHIELDED with moulded cable	Circular connector M12 series, UL approved, TOTALLY SHIELDED with moulded cable
<b>12FD8S1Z-UL</b>	<b>12FA8S1Z-UL</b>	<b>12FJ331Z-UL</b>	<b>12FV331Z-UL</b>
Straight 180°	Angled 90°	Straight 180°	Angled 90°
Moulded cable	Moulded cable	Moulded cable	Moulded cable
Female	Female	Female	Female
8poles	3poles	4poles	5poles
Black	Black	Black	Black

### Technical data

Contacts to solder wires	Contacts to crimp wires	Contacts to crimp wires	Contacts to crimp wires
Brass + Gold flash	Brass + Gold flash	Brass + Gold flash	Brass + Gold flash
Knurl round	Knurl round	Knurl round	Knurl round
Brass + Nickel plated	Brass + Nickel plated	Brass + Nickel plated	Brass + Nickel plated
0.4 N*m	0.4 N*m	0.4 N*m	0.4 N*m
30V AC/DC	250V AC/DC	250V AC/DC	60V AC/DC
2A	4A	4A	4A
NBR	NBR	NBR	NBR
PVC/PVC ULstyle 21179	PVC/PVC ULstyle 21179 SHIELDED	PVC/PVC ULstyle 21179 SHIELDED	PVC/PVC ULstyle 21179 SHIELDED
Black	Black	Black	Black
8xAWG24 (0.25mm <sup>2</sup> )	3xAWG22 (0.34mm <sup>2</sup> )	4xAWG22 (0.34mm <sup>2</sup> )	5xAWG22 (0.34mm <sup>2</sup> )
White; Brown; Green; Yellow; Grey; Pink; Blue; Red	Brown; Blue; Black	Brown; White; Blue; Black	Brown; White; Blue; Black; Grey
ø6mm (±0.3)	ø.n.a. (±0.3)	ø5.5 (±0.3)	ø6mm (±0.3)
1m	1m	1m	1m

### Packaging

1 pc / bag	1 pc / bag	1 pc / bag	1 pc / bag
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### Other accessories options

See accessories section			
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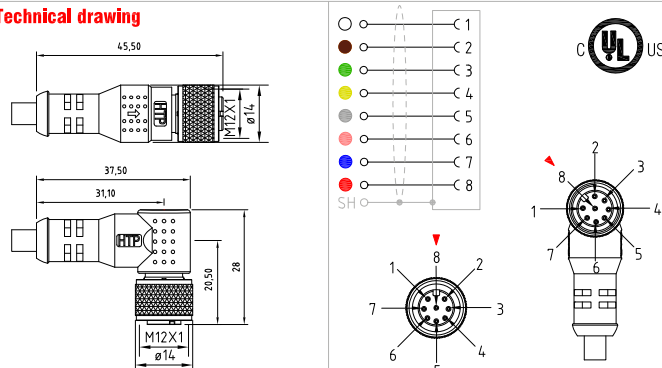
### Notes:

Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section

# M12 CIRCULAR CONNECTORS

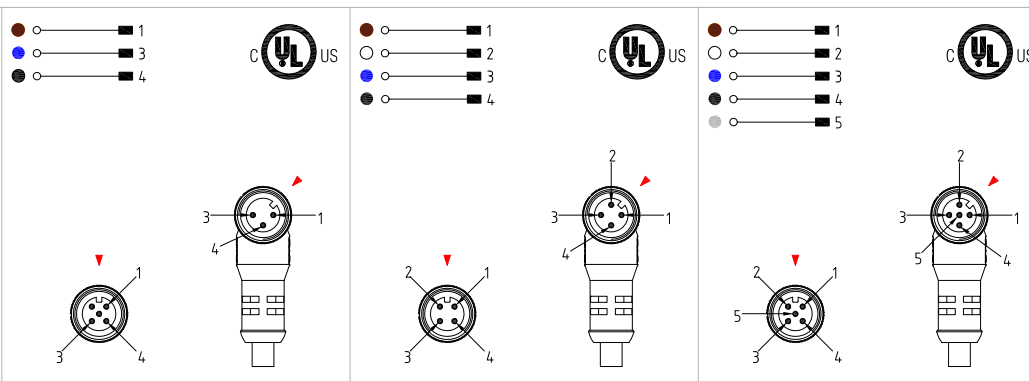
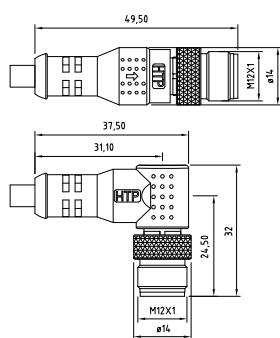
Moulded cable connectors - A-coded



<b>Technical drawing</b>			
			
<b>Product description</b>			
Connector type	Circular connector with moulded cable		
Conforms to	IEC 61076-2-101 / UL approved		
Construction type	M12 A-Coded		
Description	Circular connector M12 series,ULapproved, with moulded cable		
Part number	<b>12FJ8P1Z-UL</b>	<b>12FV8P1Z-UL</b>	
Housing type	Straight 180°	Angled 90°	
Cable gland	Moulded cable		
Contacts type	Female		
Number of contacts	8poles		
Housing colour	Black		
<b>Technical data</b>			
Type of termination	Contacts to solder wires		
Contacts material	Brass + Gold flash		
Coupling nut type	Knurl round		
M12 coupling nut material	Brass + Nickel plated		
M12 coupling nut torque	0.4 N*m		
Rated voltage	30V AC/DC		
Rated current	2A		
O-ring material	NBR		
Cable type	PVC/PVC ULstyle 21179 SHIELDED		
Cable jacket colour	Black		
No.Conductors / Section	8xAWG24 (0.25mm²)		
Conductor colours	White;Brown;Green;Yellow;Grey;Pink;Blue;Red		
Cable diameter	ø n.a. (±0.3)		
Cable lenght	1m		
<b>Packaging</b>			
Qty/Bag	1 pc / bag		
<b>Other accessories options</b>			
See accessories section			
<b>Notes:</b> Connectors available with different feautres: See the general features and codification scheme page See the cables list section			



### Technical drawing



### Product description

Connector type	Circular connector with moulded cable		Circular connector with moulded cable		Circular connector with moulded cable	
Conforms to	IEC 61076-2-101 / UL approved		IEC 61076-2-101 / UL approved		IEC 61076-2-101 / UL approved	
Construction type	M12 A-Coded		M12 A-Coded		M12 A-Coded	
Description	Circular connector M12 series, UL approved, with moulded cable		Circular connector M12 series, UL approved, with moulded cable		Circular connector M12 series, UL approved, with moulded cable	
Part number	<b>12MD3I1Z-UL</b>	<b>12MA3I1Z-UL</b>	<b>12MD4I1Z-UL</b>	<b>12MA4I1Z-UL</b>	<b>12MD5I1Z-UL</b>	<b>12MA5I1Z-UL</b>
Housing type	Straight 180°		Angled 90°		Straight 180°	
Cable gland	Moulded cable		Moulded cable		Moulded cable	
Contacts type	Male		Male		Male	
Number of contacts	3poles		4poles		5poles	
Housing colour	Black		Black		Black	

### Technical data

Type of termination	Contacts to crimp wires		Contacts to crimp wires		Contacts to crimp wires	
Contacts material	Brass + Gold flash		Brass + Gold flash		Brass + Gold flash	
Coupling nut type	Knurl round		Knurl round		Knurl round	
M12 coupling nut material	Brass + Nickel plated		Brass + Nickel plated		Brass + Nickel plated	
M12 coupling nut torque	0.4 N*m		0.4 N*m		0.4 N*m	
Rated voltage	250V AC/DC		250V AC/DC		60V AC/DC	
Rated current	4A		4A		4A	
O-ring material	-		-		-	
Cable type	PVC/PVC ULstyle 21179		PVC/PVC ULstyle 21179		PVC/PVC ULstyle 21179	
Cable jacket colour	Black		Black		Black	
No. Conductors / Section	3xAWG22 (0.34mm <sup>2</sup> )		4xAWG22 (0.34mm <sup>2</sup> )		5xAWG22 (0.34mm <sup>2</sup> )	
Conductor colours	Brown; Blue; Black		Brown; White; Blue; Black		Brown; White; Blue; Black; Grey	
Cable diameter	ø4.8mm (±0.3)		ø5.2mm (±0.3)		ø5.8mm (±0.3)	
Cable length	1m		1m		1m	

### Packaging

Qty/Bag	1 pc / bag	1 pc / bag	1 pc / bag
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### Other accessories options

See accessories section

### Notes:

Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section



# M12 CIRCULAR CONNECTORS

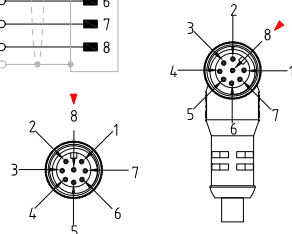
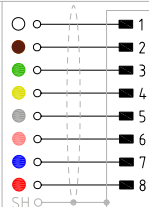
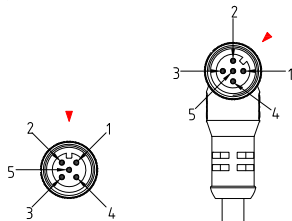
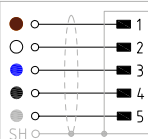
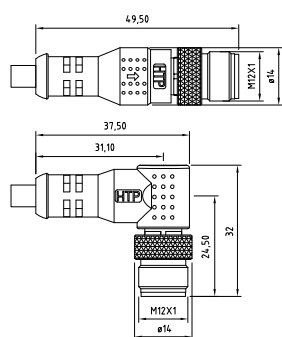
## Moulded cable connectors - A-coded



<b>Technical drawing</b>							
<b>Product description</b>							
Connector type		Circular connector with moulded cable		Circular connector with moulded cable		Circular connector with moulded cable	
Conforms to		IEC 61076-2-101 / UL approved		IEC 61076-2-101 / UL approved		IEC 61076-2-101 / UL approved	
Construction type		M12 A-Coded		M12 A-Coded		M12 A-Coded	
Description		Circular connector M12 series,ULapproved, with moulded cable		Circular connector M12 series,UL approved, TOTALLY SHIELDED with moulded cable		Circular connector M12 series,UL approved, TOTALLY SHIELDED with moulded cable	
Part number		<b>12MD8S1Z-UL</b> <b>12MA8S1Z-UL</b>		<b>12MJ331Z-UL</b> <b>12MV331Z-UL</b>		<b>12MJ431Z-UL</b> <b>12MV431Z-UL</b>	
Housing type		Straight 180°      Angled 90°		Straight 180°      Angled 90°		Straight 180°      Angled 90°	
Cable gland		Moulded cable		Moulded cable		Moulded cable	
Contacts type		Male		Male		Male	
Number of contacts		8poles		3poles		4poles	
Housing colour		Black		Black		Black	
<b>Technical data</b>							
Type of termination		Contacts to solder wires		Contacts to crimp wires		Contacts to crimp wires	
Contacts material		Brass + Gold flash		Brass + Gold flash		Brass + Gold flash	
Coupling nut type		Knurl round		Knurl round		Knurl round	
M12 coupling nut material		Brass + Nickel plated		Brass + Nickel plated		Brass + Nickel plated	
M12 coupling nut torque		0.4 N*m		0.4 N*m		0.4 N*m	
Rated voltage		30V AC/DC		250V AC/DC		250V AC/DC	
Rated current		2A		4A		4A	
O-ring material		-		-		-	
Cable type		PVC/PVC ULstyle 21179		PVC/PVC ULstyle 21179 SHIELDED		PVC/PVC ULstyle 21179 SHIELDED	
Cable jacket colour		Black		Black		Black	
No.Conductors / Section		8xAWG24 (0.25mm²)		3xAWG22 (0.34mm²)		4xAWG22 (0.34mm²)	
Conductor colours		White;Brown;Green;Yellow;Grey;Pink;Blue;Red		Brown; Blue; Black		Brown; White; Blue; Black	
Cable diameter		ø6mm (±0.3)		ø6mm (±0.3)		ø5.5mm (±0.3)	
Cable length		1m		1m		1m	
<b>Packaging</b>							
Qty/Bag		1 pc / bag		1 pc / bag		1 pc / bag	
<b>Other accessories options</b>							
See accessories section							
<b>Notes:</b> Connectors available with different features: See the general features and codification scheme page See the cables list section							



### Technical drawing



### Product description

Connector type	Circular connector with moulded cable		Circular connector with moulded cable	
Conforms to	IEC 61076-2-101 / UL approved		IEC 61076-2-101 / UL approved	
Construction type	M12 A-Coded		M12 A-Coded	
Description	Circular connector M12 series, UL approved, TOTALLY SHIELDED with moulded cable		Circular connector M12 series, UL approved, TOTALLY SHIELDED with moulded cable	
Part number	<b>12MJ5F1Z-UL</b>	<b>12MV5F1Z-UL</b>	<b>12MJ8P1Z-UL</b>	<b>12MV8P1Z-UL</b>
Housing type	Straight 180°		Angled 90°	
Cable gland	Moulded cable		Moulded cable	
Contacts type	Male		Male	
Number of contacts	5poles		8poles	
Housing colour	Black		Black	

### Technical data

Type of termination	Contacts to crimp wires		Contacts to solder wires	
Contacts material	Brass + Gold flash		Brass + Gold flash	
Coupling nut type	Knurl round		Knurl round	
M12 coupling nut material	Brass + Nickel plated		Brass + Nickel plated	
M12 coupling nut torque	0.4 N*m		0.4 N*m	
Rated voltage	60V AC/DC		30V AC/DC	
Rated current	4A		2A	
O-ring material	-		-	
Cable type	PVC/PVC ULstyle 21179 SHIELDED		PVC/PVC ULstyle 21179 SHIELDED	
Cable jacket colour	Black		Black	
No. Conductors / Section	5xAWG22 (0.34mm <sup>2</sup> )		8xAWG24 (0.25mm <sup>2</sup> )	
Conductor colours	Brown; White; Blue; Black; Grey		White; Brown; Green; Yellow; Grey; Pink; Blue; Red	
Cable diameter	ø 6mm (±0.3)		ø n.a. (±0.3)	
Cable lenght	1m		1m	

### Packaging

Qty/Bag	1 pc / bag	1 pc / bag
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### Other accessories options

See accessories section



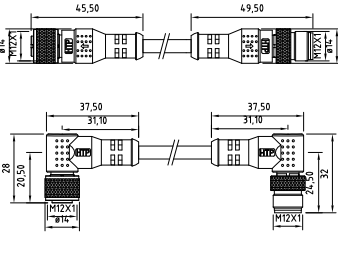
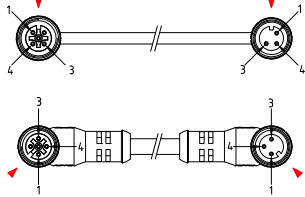
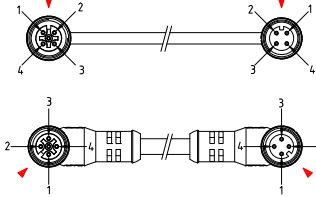
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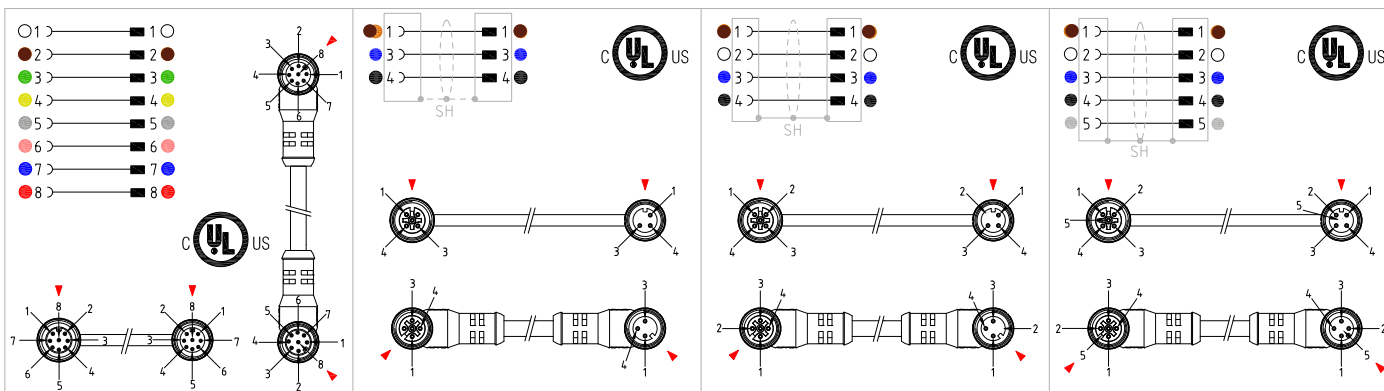
Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section

# M12 CIRCULAR CONNECTORS

## Moulded cable connectors - A-coded



<b>Technical drawing</b>						
						
<b>Product description</b>						
Connector type	Circular connector with moulded cable		Circular connector with moulded cable		Circular connector with moulded cable	
Conforms to	IEC 61076-2-101 / UL approved		IEC 61076-2-101 / UL approved		IEC 61076-2-101 / UL approved	
Construction type	M12 A-Coded		M12 A-Coded		M12 A-Coded	
Description	Extension M12-M12 connectors,UL approved, with moulded cable		Extension M12-M12 connectors,UL approved, with moulded cable		Extension M12-M12 connectors,UL approved, with moulded cable	
Part number	<b>12FD3I1Z12MD-UL</b>	<b>12FA3I1Z12MA-UL</b>	<b>12FD4I1Z12MD-UL</b>	<b>12FA4I1Z12MA-UL</b>	<b>12FD5I1Z12MD-UL</b>	<b>12FA5I1Z12MA-UL</b>
Housing type	180°-180°	90°-90°	180°-180°	90°-90°	180°-180°	90°-90°
Cable gland	Moulded cable		Moulded cable		Moulded cable	
Contacts type	Female-Male		Female-Male		Female-Male	
Number of contacts	3poles		4poles		5poles	
Housing colour	Black		Black		Black	
<b>Technical data</b>						
Type of termination	Contacts to crimp wires		Contacts to crimp wires		Contacts to crimp wires	
Contacts material	Brass + Gold flash		Brass + Gold flash		Brass + Gold flash	
Coupling nut type	Knurl round		Knurl round		Knurl round	
M12 coupling nut material	Brass + Nickel plated		Brass + Nickel plated		Brass + Nickel plated	
M12 coupling nut torque	0.4 N*m		0.4 N*m		0.4 N*m	
Rated voltage	250V AC/DC		250V AC/DC		60V AC/DC	
Rated current	4A		4A		4A	
O-ring material	NBR (on female connector)		NBR (on female connector)		NBR (on female connector)	
Cable type	PVC/PVC ULstyle 21179		PVC/PVC ULstyle 21179		PVC/PVC ULstyle 21179	
Cable jacket colour	Black		Black		Black	
No.Conductors / Section	3xAWG22 (0.34mm²)		4xAWG22 (0.34mm²)		5xAWG22 (0.34mm²)	
Conductor colours	Brown; Blue; Black		Brown; White; Blue; Black		Brown; White; Blue; Black; Grey	
Cable diameter	ø4.8mm (±0.3)		ø5.2mm (±0.3)		ø5.8mm (±0.3)	
Cable length	1m		1m		1m	
<b>Packaging</b>						
Qty/Bag	1 pc / bag		1 pc / bag		1 pc / bag	
<b>Other accessories options</b>						
See accessories section						
<b>Notes:</b>						
Connectors available with different featurtes:						
See the general features and codification scheme page						
See the cables list section						



### Product description

Circular connector with moulded cable	Circular connector with moulded cable	Circular connector with moulded cable	Circular connector with moulded cable
IEC 61076-2-101 / UL approved	IEC 61076-2-101 / UL approved	IEC 61076-2-101 / UL approved	
M12 A-Coded	M12 A-Coded	M12 A-Coded	M12 A-Coded
Extension M12-M12 connectors, UL approved, with moulded cable	Extension M12-M12 connectors, UL approved, TOTALLY SHIELDED with moulded cable	Extension M12-M12 connectors, UL approved, TOTALLY SHIELDED with moulded cable	Extension M12-M12 connectors, UL approved, TOTALLY SHIELDED with moulded cable
<b>12FD8S1Z12MD-UL</b>	<b>12FA8S1Z12MA-UL</b>	<b>12FJ331Z12MJ-UL</b>	<b>12FV331Z12MV-UL</b>
180°-180°	90°-90°	180°-180°	90°-90°
Moulded cable	Moulded cable	Moulded cable	Moulded cable
Female-Male	Female-Male	Female-Male	Female-Male
8poles	3poles	4poles	5poles
Black	Black	Black	Black

### Technical data

Contacts to solder wires	Contacts to crimp wires	Contacts to crimp wires	Contacts to crimp wires
Brass + Gold flash	Brass + Gold flash	Brass + Gold flash	Brass + Gold flash
Knurl round	Knurl round	Knurl round	Knurl round
Brass + Nickel plated	Brass + Nickel plated	Brass + Nickel plated	Brass + Nickel plated
0.4 N*m	0.4 N*m	0.4 N*m	0.4 N*m
30V AC/DC	250V AC/DC	250V AC/DC	60V AC/DC
2A	4A	4A	4A
NBR (on female connector)	NBR (on female connector)	NBR (on female connector)	NBR (on female connector)
PVC/PVC ULstyle 21179	PVC/PVC ULstyle 21179 SHIELDED	PVC/PVC ULstyle 21179 SHIELDED	PVC/PVC ULstyle 21179 SHIELDED
Black	Black	Black	Black
8xAWG24 (0.25mm <sup>2</sup> )	3xAWG22 (0.34mm <sup>2</sup> )	4xAWG22 (0.34mm <sup>2</sup> )	5xAWG22 (0.34mm <sup>2</sup> )
White; Brown; Green; Yellow; Grey; Pink; Blue; Red	Brown; Blue; Black	Brown; White; Blue; Black	Brown; White; Blue; Black; Grey
ø6mm (±0.3)	ø.n.a. (±0.3)	ø5.5mm (±0.3)	ø6mm (±0.3)
1m	1m	1m	1m

### Packaging

1 pc / bag	1 pc / bag	1 pc / bag	1 pc / bag
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### Other accessories options

See accessories section

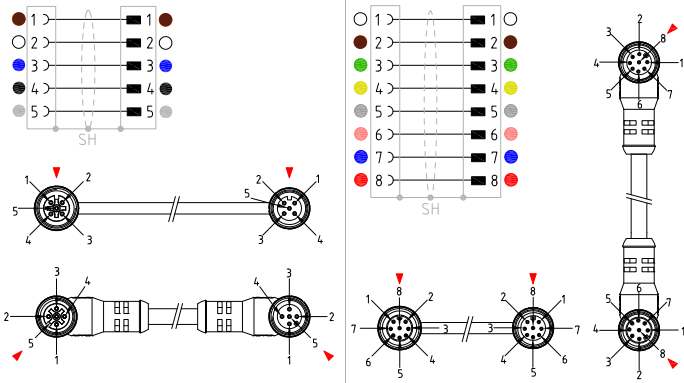
### Notes:

Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section

## M12 CIRCULAR CONNECTORS

Moulded cable connectors - A-coded

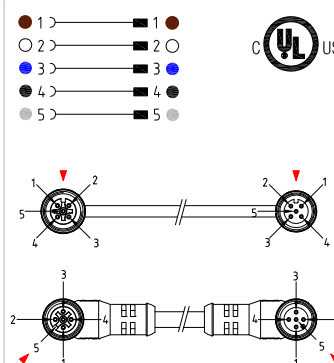
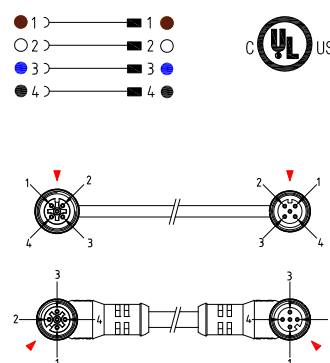
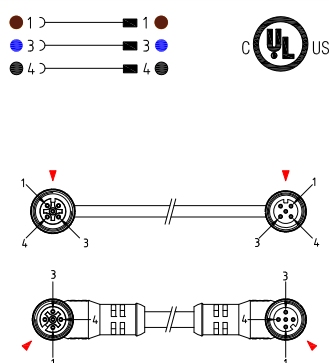
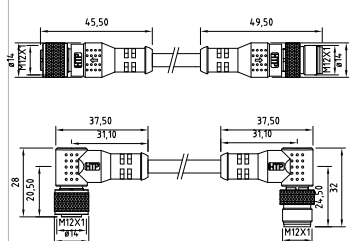


<b>Technical drawing</b>			
<b>Product description</b>			
Connector type	Circular connector with moulded cable		Circular connector with moulded cable
Conforms to	IEC 61076-2-101		IEC 61076-2-101
Construction type	M12 A-Coded		M12 A-Coded
Description	Extension M12-M12 connectors TOTALLY SHIELDED with moulded cable		Extension M12-M12 connectors TOTALLY SHIELDED with moulded cable
Part number	<b>12FJ5F1Z12MJ</b>	<b>12FV5F1Z12MV</b>	<b>12FJ8J1Z12MJ</b> <b>12FV8J1Z12MV</b>
Housing type	180°-180°	90°-90°	180°-180°    90°-90°
Cable gland	Moulded cable		Moulded cable
Contacts type	Female-Male		Female-Male
Number of contacts	5poles		8poles
Housing colour	Black		Black
<b>Technical data</b>			
Type of termination	Contacts to crimp wires		Contacts to solder wires
Contacts material	Brass + Gold flash		Brass + Gold flash
Coupling nut type	Knurl round		Knurl round
M12 coupling nut material	Brass + Nickel plated		Brass + Nickel plated
M12 coupling nut torque	0.4 N*m		0.4 N*m
Rated voltage	60V AC/DC		30V AC/DC
Rated current	4A		2A
O-ring material	NBR (on female connector)		NBR (on female connector)
Cable type	PVC/PVC CEI2022		PVC/PVC CEI2022
Cable jacket colour	Black		Black
No. Conductors / Section	5x0.34mm²		8x0.25mm²
Conductor colours	Brown; White; Blue; Black; Grey		White;Brown;Green;Yellow;Grey;Pink;Blue;Red
Cable diameter	ø6mm (±0.3)		ø6.5mm (±0.3)
Cable lenght	1m		1m
<b>Packaging</b>			
Qty/Bag	1 pc / bag		1 pc / bag
<b>Other accessories options</b>			
See accessories section			
<b>Notes:</b> Connectors available with different features: See the general features and codification scheme page See the cables list section			





### Technical drawing



### Product description

Connector type	Circular connector with moulded cable		Circular connector with moulded cable		Circular connector with moulded cable	
Conforms to	IEC 61076-2-101 / UL approved		IEC 61076-2-101 / UL approved		IEC 61076-2-101 / UL approved	
Construction type	M12 A-Coded		M12 A-Coded		M12 A-Coded	
Description	Extension M12-M12 connectors,UL approved, with moulded cable		Extension M12-M12 connectors,UL approved, with moulded cable		Extension M12-M12 connectors,UL approved, with moulded cable	
Part number	<b>12FD331Z12MD</b>	<b>12FA331Z12MA</b>	<b>12FD411Z12MD</b>	<b>12FA411Z12MA</b>	<b>12FD511Z12MD</b>	<b>12FA511Z12MA</b>
Housing type	180°-180°	90°-90°	180°-180°	90°-90°	180°-180°	90°-90°
Cable gland	Moulded cable		Moulded cable		Moulded cable	
Contacts type	Female-Male		Female-Male		Female-Male	
Number of contacts	3poles		4poles		5poles	
Housing colour	Black		Black		Black	

### Technical data

Type of termination	Contacts to crimp wires		Contacts to crimp wires		Contacts to crimp wires	
Contacts material	Brass + Gold flash		Brass + Gold flash		Brass + Gold flash	
Coupling nut type	Knurl round		Knurl round		Knurl round	
M12 coupling nut material	Brass + Nickel plated		Brass + Nickel plated		Brass + Nickel plated	
M12 coupling nut torque	0.4 N*m		0.4 N*m		0.4 N*m	
Rated voltage	250V AC/DC		250V AC/DC		60V AC/DC	
Rated current	4A		4A		4A	
O-ring material	NBR (on female connector)		NBR (on female connector)		NBR (on female connector)	
Cable type	PVC/PVC ULstyle 21179		PVC/PVC ULstyle 21179		PVC/PVC ULstyle 21179	
Cable jacket colour	Black		Black		Black	
No.Conductors / Section	3xAWG22 (0.34mm <sup>2</sup> )		4xAWG22 (0.34mm <sup>2</sup> )		5xAWG22 (0.34mm <sup>2</sup> )	
Conductor colours	Brown; Blue; Black		Brown; White; Blue; Black		Brown; White; Blue; Black; Grey	
Cable diameter	ø4.8mm (±0.3)		ø5.2mm (±0.3)		ø5.8mm (±0.3)	
Cable lenght	1m		1m		1m	

### Packaging

Qty/Bag	1 pc / bag	1 pc / bag	1 pc / bag
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### Other accessories options

See accessories section

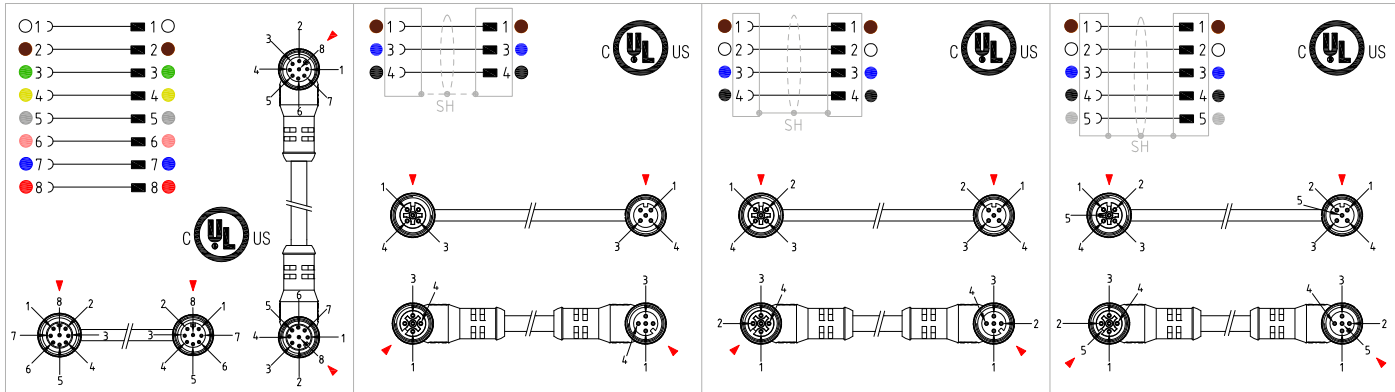
### Notes:

Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section



# M12 CIRCULAR CONNECTORS

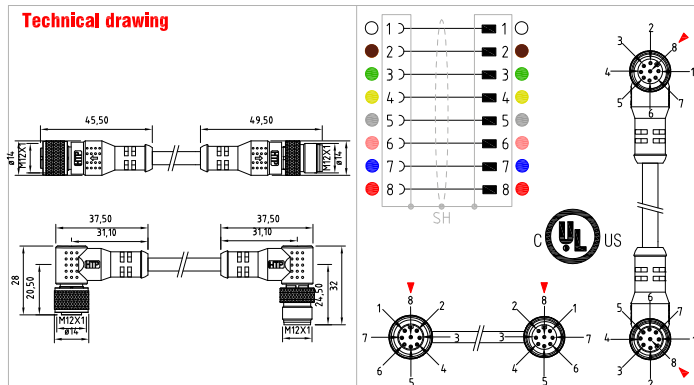
## Moulded cable connectors - A-coded



Product description							
Circular connector with moulded cable		Circular connector with moulded cable		Circular connector with moulded cable		Circular connector with moulded cable	
IEC 61076-2-101 / UL approved		IEC 61076-2-101 / UL approved		IEC 61076-2-101 / UL approved			
M12 A-Coded		M12 A-Coded		M12 A-Coded		M12 A-Coded	
Extension M12-M12 connectors,UL approved, with moulded cable		Extension M12-M12 connectors,UL approved, TOTALLY SHIELDED with moulded cable		Extension M12-M12 connectors,UL approved, TOTALLY SHIELDED with moulded cable		Extension M12-M12 connectors,UL approved, TOTALLY SHIELDED with moulded cable	
<b>12FD8S1Z12MD</b>	<b>12FA8S1Z12MA</b>	<b>12FJ331Z12MJ</b>	<b>12FV331Z12MV</b>	<b>12FJ431Z12MJ</b>	<b>12FV431Z12MV</b>	<b>12FJ531Z12MJ</b>	<b>12FV531Z12MV</b>
180°-180°	90°-90°	180°-180°	90°-90°	180°-180°	90°-90°	180°-180°	90°-90°
Moulded cable		Moulded cable		Moulded cable		Moulded cable	
Female-Male		Female-Male		Female-Male		Female-Male	
8poles		3poles		4poles		5poles	
Black		Black		Black		Black	
Technical data							
Contacts to solder wires		Contacts to crimp wires		Contacts to crimp wires		Contacts to crimp wires	
Brass + Gold flash		Brass + Gold flash		Brass + Gold flash		Brass + Gold flash	
Knurl round		Knurl round		Knurl round		Knurl round	
Brass + Nickel plated		Brass + Nickel plated		Brass + Nickel plated		Brass + Nickel plated	
0.4 N*m		0.4 N*m		0.4 N*m		0.4 N*m	
30V AC/DC		250V AC/DC		250V AC/DC		60V AC/DC	
2A		4A		4A		4A	
NBR (on female connector)		NBR (on female connector)		NBR (on female connector)		NBR (on female connector)	
PVC/PVC ULstyle 21179		PVC/PVC ULstyle 21179 SHIELDED		PVC/PVC ULstyle 21179 SHIELDED		PVC/PVC ULstyle 21179 SHIELDED	
Black		Black		Black		Black	
8xAWG24 (0.25mm²)		3xAWG22 (0.34mm²)		4xAWG22 (0.34mm²)		5xAWG22 (0.34mm²)	
White;Brown;Green;Yellow;Grey;Pink;Blue;Red		Brown; Blue; Black		Brown; White; Blue; Black		Brown; White; Blue; Black; Grey	
ø6mm (±0.3)		ø.n.a. (±0.3)		ø5.5mm (±0.3)		ø6mm (±0.3)	
1m		1m		1m		1m	
Packaging							
1 pc / bag		1 pc / bag		1 pc / bag		1 pc / bag	
Other accessories options							
See accessories section							
Notes:							
Connectors available with different features: See the general features and codification scheme page See the cables list section							



### Technical drawing



### Product description

Connector type	Circular connector with moulded cable	
Conforms to		
Construction type	M12 A-Coded	
Description	Extension M12-M12 connectors, UL approved, TOTALLY SHIELDED with moulded cable	
Part number	<b>12FJ8P1Z12MJ-UL</b>	<b>12FV8P1Z12MV-UL</b>
Housing type	180°-180°	90°-90°
Cable gland	Moulded cable	
Contacts type	Female-Male	
Number of contacts	8poles	
Housing colour	Black	

### Technical data

Type of termination	Contacts to solder wires
Contacts material	Brass + Gold flash
Coupling nut type	Knurl round
M12 coupling nut material	Brass + Nickel plated
M12 coupling nut torque	0.4 N*m
Rated voltage	30V AC/DC
Rated current	2A
O-ring material	NBR (on female connector)
Cable type	PVC/PVC ULstyle21179 SHIELDED
Cable jacket colour	Black
No. Conductors / Section	8xAWG24 (0.25mm <sup>2</sup> )
Conductor colours	White;Brown;Green;Yellow;Grey;Pink;Blue;Red
Cable diameter	ø n.a. (±0.3)
Cable lenght	1m

### Packaging

Qty/Bag	1 pc / bag
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### Other accessories options

See accessories section

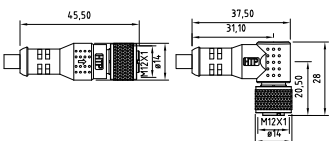
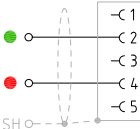
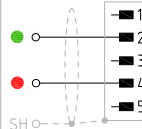
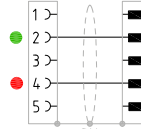
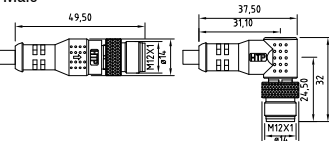
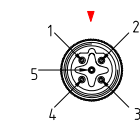
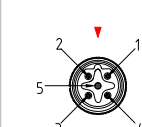
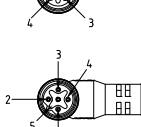
### Notes:

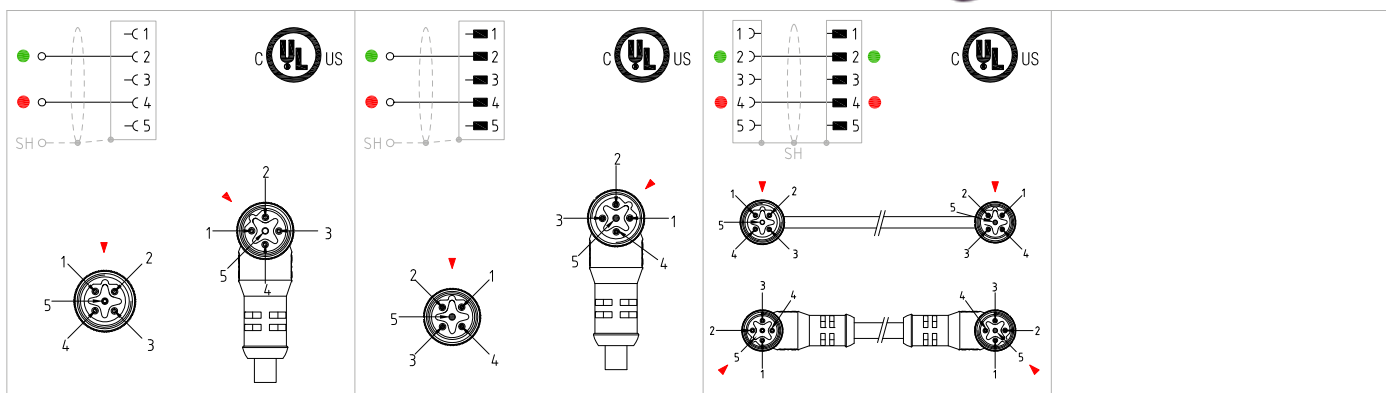
Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section

## M12 CIRCULAR CONNECTORS

### Moulded cable connectors - B-coded



<b>Technical drawing</b>							
<b>Female</b> 							
<b>Male</b> 							
<b>Product description</b>							
Connector type	Circular connector with moulded cable		Circular connector with moulded cable		Circular connector with moulded cable		
Conforms to	IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101		
Construction type	M12 B-Coded		M12 B-Coded		M12 B-Coded		
Description	Circular connector M12 series,B-coded, TOTALLY SHIELDED,with moulded cable		Circular connector M12 series,B-coded, TOTALLY SHIELDED,with moulded cable		Extension M12-M12 connectors,B-coded, TOTALLY SHIELDED,with moulded cable		
Part number	<b>B-12FJ5T1Z-K6-IS</b>	<b>B-12FV5T1Z-K6-IS</b>	<b>B-12MJ5T1Z-K6-IS</b>	<b>B-12MV5T1Z-K6-IS</b>	<b>B-12FJ5T1Z12MJ-K6-IS B-12FV5T1Z12MV-K6-IS</b>		
Housing type	Straight 180°	Angled 90°	Straight 180°	Angled 90°	Straight 180°	Angled 90°	
Cable gland	Moulded cable		Moulded cable		Moulded cable		
Contacts type	Female		Male		Female-Male		
Number of contacts	5poles		5poles		5poles		
Housing colour	Black		Black		Black		
<b>Technical data</b>							
Type of termination	Contacts to crimp wires		Contacts to crimp wires		Contacts to crimp wires		
Contacts material	Brass + Gold flash		Brass + Gold flash		Brass + Gold flash		
Coupling nut type	Knurl round		Knurl round		Knurl round		
M12 coupling nut material	Brass + Nickel plated		Brass + Nickel plated		Brass + Nickel plated		
M12 coupling nut torque	0.4 N*m		0.4 N*m		0.4 N*m		
Rated voltage	60V AC/DC		60V AC/DC		60V AC/DC		
Rated current	4A		4A		4A		
O-ring material	NBR		-		NBR (on female connector)		
Cable type	PUR PROFIBUS UL444 SHIELDED HIGH FLEX		PUR PROFIBUS UL444 SHIELDED HIGH FLEX		PUR PROFIBUS UL444 SHIELDED HIGH FLEX		
Cable jacket colour	Violet RAL4001		Violet RAL4001		Violet RAL4001		
No. Conductors / Section	1x2xAWG24(0.25mm²)		1x2xAWG24(0.25mm²)		1x2xAWG24(0.25mm²)		
Conductor colours	Red; Green		Red; Green		Red; Green		
Cable diameter	ø8.2mm (±0.3)		ø8.2mm (±0.3)		ø8.2mm (±0.3)		
Cable length	1m		1m		1m		
<b>Packaging</b>							
Qty/Bag	1 pc / bag		1 pc / bag		1 pc / bag		
<b>Other accessories options</b>							
See accessories section							
<b>Notes:</b>							
Connectors available with different feautures: See the general features and codification scheme page See the cables list section							



### Product description

Circular connector with moulded cable		Circular connector with moulded cable		Circular connector with moulded cable	
IEC 61076-2-101 / UL approved		IEC 61076-2-101 / UL approved		IEC 61076-2-101 / UL approved	
M12 B-Coded		M12 B-Coded		M12 B-Coded	
Circular connector M12 series,B-coded, TOTALLY SHIELDED,with moulded cable		Circular connector M12 series,B-coded, TOTALLY SHIELDED,with moulded cable		Extension M12-M12 connectors,B-coded, TOTALLY SHIELDED,with moulded cable	
<b>B-12FJ5T1Z-K6-UL</b>	<b>B-12FV5T1Z-K6-UL</b>	<b>B-12MJ5T1Z-K6-UL</b>	<b>B-12MV5T1Z-K6-UL</b>	<b>B-12FJ5T1Z12MJ-K6-UL</b>	<b>B-12FV5T1Z12MV-K6-UL</b>
Straight 180°	Angled 90°	Straight 180°	Angled 90°	Straight 180°	Angled 90°
Moulded cable		Moulded cable		Moulded cable	
Female		Male		Female-Male	
5poles		5poles		5poles	
Black		Black		Black	

### Technical data

Contacts to crimp wires		Contacts to crimp wires		Contacts to crimp wires	
Brass + Gold flash		Brass + Gold flash		Brass + Gold flash	
Knurl round		Knurl round		Knurl round	
Brass + Nickel plated		Brass + Nickel plated		Brass + Nickel plated	
0.4 N*m		0.4 N*m		0.4 N*m	
60V AC/DC		60V AC/DC		60V AC/DC	
4A		4A		4A	
NBR		-		NBR (on female connector)	
PUR PROFIBUS UL444 SHIELDED HIGH FLEX		PUR PROFIBUS UL444 SHIELDED HIGH FLEX		PUR PROFIBUS UL444 SHIELDED HIGH FLEX	
Violet RAL4001		Violet RAL4001		Violet RAL4001	
1x2xAWG24(0.25mm <sup>2</sup> )		1x2xAWG24(0.25mm <sup>2</sup> )		1x2xAWG24(0.25mm <sup>2</sup> )	
Red; Green		Red; Green		Red; Green	
ø8.2mm (±0.3)		ø8.2mm (±0.3)		ø8.2mm (±0.3)	
1m		1m		1m	

### Packaging

1 pc / bag	1 pc / bag	1 pc / bag
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### Other accessories options

See accessories section

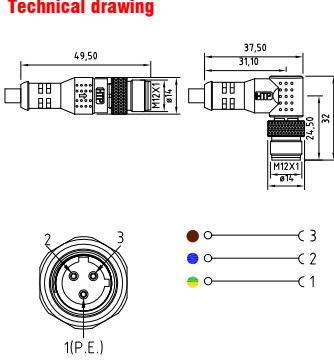
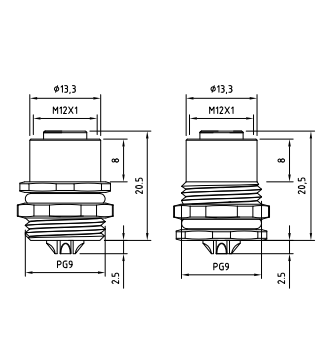
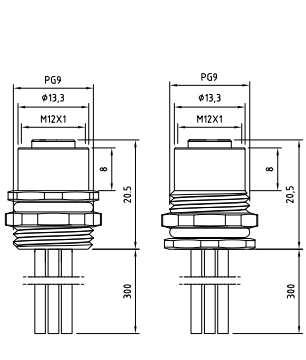
### Notes:

Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section

## M12 CIRCULAR CONNECTORS

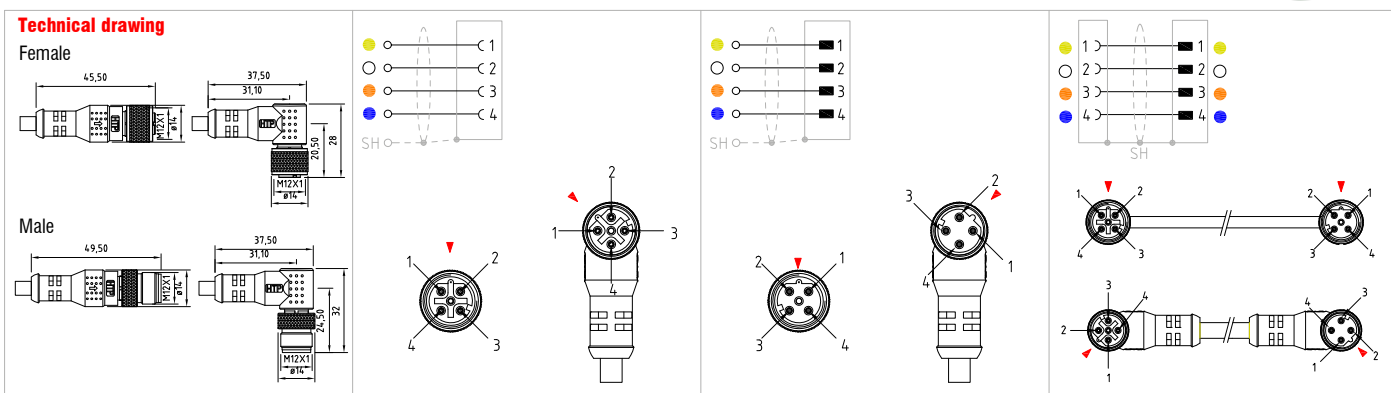
Moulded cable connectors - C-coded /  
Panel mount connectors C-coded



<b>Technical drawing</b>					
					
<b>Product description</b>					
Connector type		Circular connector with moulded cable		Circular connector panel mount	
Conforms to		IEC 61076-2-101		IEC 61076-2-101	
Construction type		M12 C-Coded		M12 C-Coded	
Description		Circular connector M12 series,C-coded, with moulded cable		Circular connector M12 series,C-coded, panel mount	
Part number		<b>C-12MD3011Z</b>	<b>C-12MA3011Z</b>	<b>C-12FP3000-PG9</b>	<b>C-12FR3000-PG9</b>
Housing type		Straight 180° Angled 90°		Frontal panel side	Back panel side
Cable gland		Moulded cable		PG9 (fixing thread)	
Contacts type		Male		Female	
Number of contacts		3poles		3poles	
Housing colour		Black		-	
<b>Technical data</b>					
Type of termination		Contacts to crimp wires		Contacts to solder wires	
Contacts material		Brass + Gold flash		Brass + Gold flash	
Coupling nut type		Knurl round		Brass + Nickel plated	
M12 coupling nut material		Brass + Nickel plated		Brass + Nickel plated (SW17)	
M12 coupling nut torque		0.4 N*m		0.4 N*m	
Rated voltage		250V AC/DC		250V AC / DC	
Rated current		4A		4A	
O-ring material		-		NBR	
Cable type		PVC/PVC CEI2022		-	
Cable jacket colour		Black		-	
No. Conductors / Section		3x0.5mm²		-	
Conductor colours		Brown; Blue; Yellow/Green		-	
Cable diameter		ø5mm (±0.3)		-	
Cable length		1m		-	
<b>Packaging</b>					
Qty/Bag		1 pc / bag		Not defined	
<b>Other accessories options</b>					
See accessories section					
<b>Notes:</b> Connectors available with different features: See the general features and codification scheme page See the cables list section					

## M12 CIRCULAR CONNECTORS

Moulded cable connectors - D-coded



### Product description

Connector type	Circular connector with moulded cable		Circular connector with moulded cable		Circular connector with moulded cable	
Conforms to	IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101	
Construction type	M12 D-Coded		M12 D-Coded		M12 D-Coded	
Description	Circular connector M12 series, D-coded, TOTALLY SHIELDED, with moulded cable		Circular connector M12 series, D-coded, TOTALLY SHIELDED, with moulded cable		Extension M12-M12 connectors, D-coded, TOTALLY SHIELDED, with moulded cable	
Part number	<b>D-12FJ4401Z-K6-IS</b>	<b>D-12FV4401Z-K6-IS</b>	<b>D-12MJ4401Z-K6-IS</b>	<b>D-12MV4401Z-K6-IS</b>	<b>D-12MJ4401Z12FJ-K6-IS</b>	<b>D-12MV4401Z12FV-K6-IS</b>
Housing type	Straight 180°    Angled 90°		Straight 180°    Angled 90°		Straight 180°    Angled 90°	
Cable gland	Moulded cable		Moulded cable		Moulded cable	
Contacts type	Female		Male		Female-Male	
Number of contacts	4poles		4poles		4poles	
Housing colour	Black		Black		Black	

### Technical data

Type of termination	Contacts to crimp wires		Contacts to crimp wires		Contacts to crimp wires	
Contacts material	Brass + Gold flash		Brass + Gold flash		Brass + Gold flash	
Coupling nut type	Knurl round		Knurl round		Knurl round	
M12 coupling nut material	Brass + Nickel plated		Brass + Nickel plated		Brass + Nickel plated	
M12 coupling nut torque	0.4 N*m		0.4 N*m		0.4 N*m	
Rated voltage	250V AC/DC		250V AC/DC		250V AC/DC	
Rated current	4A		4A		4A	
O-ring material	NBR		-		NBR (on female connector)	
Cable type	PUR CAT.5E UL21576 SHIELDED HIGH FLEX		PUR CAT.5E UL21576 SHIELDED HIGH FLEX		PUR CAT.5E UL21576 SHIELDED HIGH FLEX	
Cable jacket colour	Green RAL6018		Green RAL6018		Green RAL6018	
No. Conductors / Section	1x4xAWG22(0.34mm <sup>2</sup> )		1x4xAWG22(0.34mm <sup>2</sup> )		1x4xAWG22(0.34mm <sup>2</sup> )	
Conductor colours	Yellow; White; Orange; Blue		Yellow; White; Orange; Blue		Yellow; White; Orange; Blue	
Cable diameter	ø6.7mm (±0.3)		ø6.7mm (±0.3)		ø6.7mm (±0.3)	
Cable length	1m		1m		1m	

### Packaging

Qty/Bag	1 pc / bag	1 pc / bag	1 pc / bag
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### Other accessories options

See accessories section

### Note:

Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section

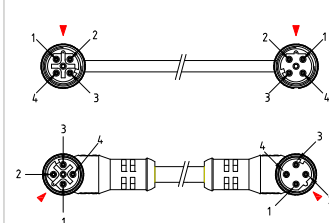
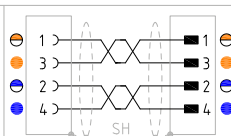
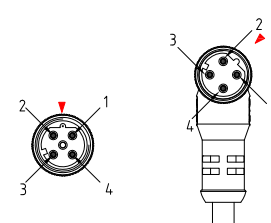
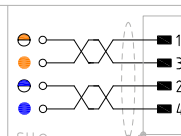
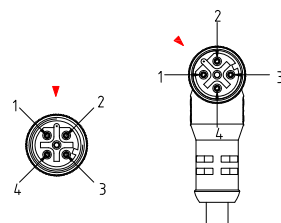
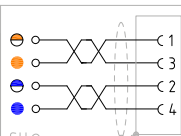
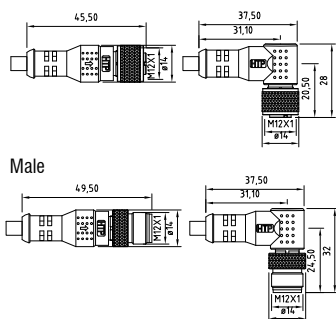


## M12 CIRCULAR CONNECTORS



## Technical drawing

Female



### Product description

Connector type	Circular connector with moulded cable		Circular connector with moulded cable		Circular connector with moulded cable	
Conforms to	IEC 61076-2-101 / UL approved		IEC 61076-2-101 / UL approved		IEC 61076-2-101 / UL approved	
Construction type	M12 D-Coded		M12 D-Coded		M12 D-Coded	
Description	Circular connector M12 series,D-coded,UL, TOTALLY SHIELDED,with moulded cable		Circular connector M12 series,D-coded,UL, TOTALLY SHIELDED,with moulded cable		Extension M12-M12 connectors,D-coded,UL, TOTALLY SHIELDED,with moulded cable	
Part number	<b>D-12FJ4661Z-K6-UL</b>	<b>D-12FV4661Z-K6-UL</b>	<b>D-12MJ4661Z-K6-UL</b>	<b>D-12MV4661Z-K6-UL</b>	<b>D-12FJ4661Z12MJ-UL</b>	<b>D-12FV4661Z12MV-UL</b>
Housing type	Straight 180°	Angled 90°	Straight 180°	Angled 90°	Straight 180°	Angled 90°
Cable gland	Moulded cable		Moulded cable		Moulded cable	
Contacts type	Female		Male		Female-Male	
Number of contacts	4poles		4poles		4poles	
Housing colour	Black		Black		Black	

## Technical data

Type of termination	Contacts to crimp wires	Contacts to crimp wires	Contacts to crimp wires
Contacts material	Brass + Gold flash	Brass + Gold flash	Brass + Gold flash
Coupling nut type	Knurl round	Knurl round	Knurl round
M12 coupling nut material	Brass + Nickel plated	Brass + Nickel plated	Brass + Nickel plated
M12 coupling nut torque	0.4 N*m	0.4 N*m	0.4 N*m
Rated voltage	250V AC/DC	250V AC/DC	250V AC/DC
Rated current	4A	4A	4A
O-ring material	NBR	-	NBR (on female connector)
Cable type	PUR CAT.5E UL21576 SHIELDED HIGH FLEX	PUR CAT.5E UL21576 SHIELDED HIGH FLEX	PUR CAT.5E UL21576 SHIELDED HIGH FLEX
Cable jacket colour	Green RAL6016	Green RAL6016	Green RAL6016
No. Conductors / Section	2x2xAWG24(0.25mm²)	2x2xAWG24(0.25mm²)	2x2xAWG24(0.25mm²)
Conductor colours	Orange; White/Orange; Blue; White/Blue	Orange; White/Orange; Blue; White/Blue	Orange; White/Orange; Blue; White/Blue
Cable diameter	ø6mm (±0.3)	ø6mm (±0.3)	ø6mm (±0.3)
Cable length	1m	1m	1m

## Packaging

Qty/Bag	1 pc / bag	1 pc / bag	1 pc / bag
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### Other accessories options

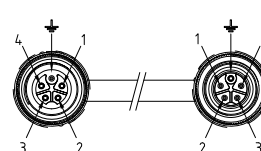
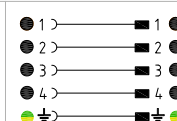
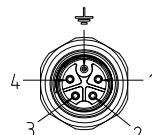
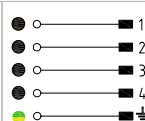
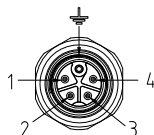
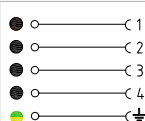
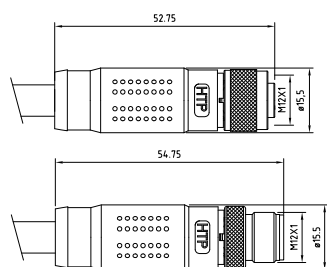
See accessories section

**Note:**

Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section



### Technical drawing



### Product description

Connector type	Circular connector with moulded cable	Circular connector with moulded cable	Circular connector with moulded cable
Conforms to	IEC 61076-2-111	IEC 61076-2-111	IEC 61076-2-111
Construction type	M12 K-Coded	M12 K-Coded	M12 K-Coded
Description	Circular connector M12 series, K-coded, with moulded cable	Circular connector M12 series, K-coded, with moulded cable	Extension M12-M12 connectors, K-coded, with moulded cable
Part number	<b>K-12FD5461Z</b>	<b>K-12MD5461Z</b>	<b>K-12FD5461Z12MD</b>
Housing type	Straight 180°	Straight 180°	180°-180°
Cable gland	Moulded cable	Moulded cable	Moulded cable
Contacts type	Female	Male	Female-Male
Number of contacts	4poles + P.E.	4poles + P.E.	4poles + P.E.
Housing colour	Black	Black	Black

### Technical data

Type of termination	Contacts to solder wires	Contacts to solder wires	Contacts to solder wires
Contacts material	Brass + Gold flash	Brass + Gold flash	Brass + Gold flash
Coupling nut type	Knurl round	Knurl round	Knurl round
M12 coupling nut material	Brass + Nickel plated	Brass + Nickel plated	Brass + Nickel plated
M12 coupling nut torque	0.4 N*m	0.4 N*m	0.4 N*m
Rated voltage	630V AC	630V AC	630V AC
Rated current	12A	12A	12A
O-ring material	NBR	-	NBR (on female connector)
Cable type	PVC/PVC CEI2022	PVC/PVC CEI2022	PVC/PVC CEI2022
Cable jacket colour	Black	Black	Black
No. Conductors / Section	5G1.5mm <sup>2</sup>	5G1.5mm <sup>2</sup>	5G1.5mm <sup>2</sup>
Conductor colours	Bk 1; Bk 2; Bk 3; Bk 4; Yellow/Green;	Bk 1; Bk 2; Bk 3; Bk 4; Yellow/Green;	Bk 1; Bk 2; Bk 3; Bk 4; Yellow/Green;
Cable diameter	Ø10mm (±0.3)	Ø10mm (±0.3)	Ø10mm (±0.3)
Cable length	1m	1m	1m

### Packaging

Qty/Bag	1 pc / bag	1 pc / bag	1 pc / bag
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### Other accessories options

See accessories section

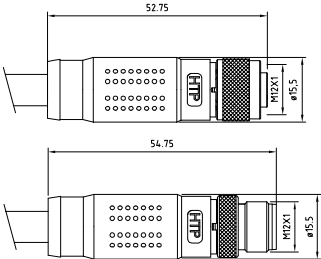
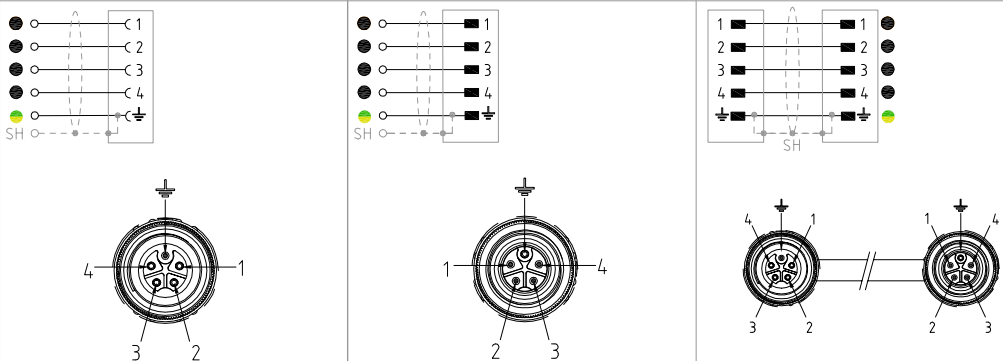
### Notes:

Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section

## M12 CIRCULAR CONNECTORS

Moulded cable connectors - K-coded



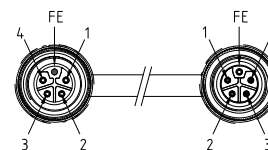
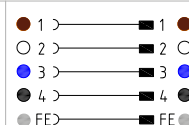
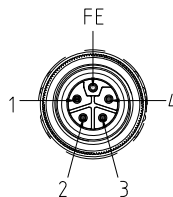
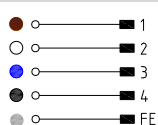
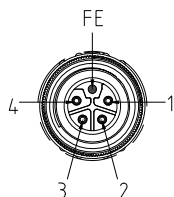
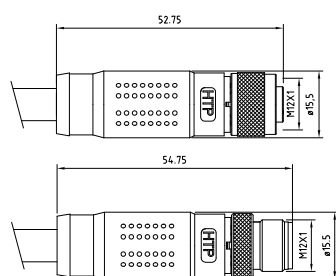
<b>Technical drawing</b> 			
			
<b>Product description</b>			
Connector type	Circular connector with moulded cable	Circular connector with moulded cable	Circular connector with moulded cable
Conforms to	IEC 61076-2-111	IEC 61076-2-111	IEC 61076-2-111
Construction type	M12 K-Coded	M12 K-Coded	M12 K-Coded
Description	Circular connector M12 series, K-coded, TOTALLY SHIELDED with moulded cable	Circular connector M12 series, K-coded, TOTALLY SHIELDED with moulded cable	Extension M12-M12 connectors, K-coded, TOTALLY SHIELDED with moulded cable
Part number	<b>K-12FJ5351Z-K6-IS</b>	<b>K-12MJ5351Z-K6-IS</b>	<b>K-12FJ5351Z12MJ</b>
Housing type	Straight 180°	Straight 180°	180°-180°
Cable gland	Moulded cable	Moulded cable	Moulded cable
Contacts type	Female	Male	Female-Male
Number of contacts	4poles + P.E.	4poles + P.E.	4poles + P.E.
Housing colour	Black	Black	Black
<b>Technical data</b>			
Type of termination	Contacts to solder wires	Contacts to solder wires	Contacts to solder wires
Contacts material	Brass+Gold flash	Brass+Gold flash	Brass+Gold flash
Coupling nut type	Knurl round	Knurl round	Knurl round
M12 coupling nut material	Brass+Nickel plated	Brass+Nickel plated	Brass+Nickel plated
M12 coupling nut torque	0.4 N*m	0.4 N*m	0.4 N*m
Rated voltage	630V AC	630V AC	630V AC
Rated current	12A	12A	12A
O-ring material	NBR	-	NBR (on female connector)
Cable type	PVC/PVC CEI2022 SHIELDED	PVC/PVC CEI2022 SHIELDED	PVC/PVC CEI2022 SHIELDED
Cable jacket colour	Black	Black	Black
No. Conductors / Section	5G1.5mm <sup>2</sup>	5G1.5mm <sup>2</sup>	5G1.5mm <sup>2</sup>
Conductor colours	Bk 1; Bk 2; Bk 3; Bk 4; Yellow/Green;	Bk 1; Bk 2; Bk 3; Bk 4; Yellow/Green;	Bk 1; Bk 2; Bk 3; Bk 4; Yellow/Green;
Cable diameter	ø10.4mm (±0.3)	ø10.4mm (±0.3)	ø10.4mm (±0.3)
Cable length	1m	1m	1m
<b>Packaging</b>			
Qty/Bag	1 pc / bag	1 pc / bag	1 pc / bag
<b>Other accessories options</b>			
See accessories section			
<b>Notes:</b> Connectors available with different features: See the general features and codification scheme page See the cables list section			

## M12 CIRCULAR CONNECTORS

Moulded cable connectors - L-coded



### Technical drawing



### Product description

Connector type	Circular connector with moulded cable	Circular connector with moulded cable	Circular connector with moulded cable
Conforms to	IEC 61076-2-111	IEC 61076-2-111	IEC 61076-2-111
Construction type	M12 L-Coded	M12 L-Coded	M12 L-Coded
Description	Circular connector M12 series,L-coded, with moulded cable	Circular connector M12 series,L-coded, with moulded cable	Extension M12-M12 connectors,L-coded, with moulded cable
Part number	<b>L-12FD5731Z</b>	<b>L-12MD5731Z</b>	<b>L-12FD5731Z12MD</b>
Housing type	Straight 180°	Straight 180°	180°-180°
Cable gland	Moulded cable	Moulded cable	Moulded cable
Contacts type	Female	Male	Female-Male
Number of contacts	4poles + F.E.	4poles + F.E.	4poles + F.E.
Housing colour	Black	Black	Black

### Technical data

Type of termination	Contacts to solder wires	Contacts to solder wires	Contacts to solder wires
Contacts material	Brass + Gold flash	Brass + Gold flash	Brass + Gold flash
Coupling nut type	Knurl round	Knurl round	Knurl round
M12 coupling nut material	Brass + Nickel plated	Brass + Nickel plated	Brass + Nickel plated
M12 coupling nut torque	0.4 N*m	0.4 N*m	0.4 N*m
Rated voltage	63V DC	63V DC	63V DC
Rated current	16A	16A	16A
O-ring material	NBR	-	NBR (on female connector)
Cable type	PVC/PVC CEI2022	PVC/PVC CEI2022	PVC/PVC CEI2022
Cable jacket colour	Black	Black	Black
No. Conductors / Section	5x1.5mm <sup>2</sup>	5x1.5mm <sup>2</sup>	5x1.5mm <sup>2</sup>
Conductor colours	Brown; White; Blue; Black; Grey;	Brown; White; Blue; Black; Grey;	Brown; White; Blue; Black; Grey;
Cable diameter	ø10mm (±0.3)	ø10mm (±0.3)	ø10mm (±0.3)
Cable length	1m	1m	1m

### Packaging

Qty/Bag	1 pc / bag	1 pc / bag	1 pc / bag
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### Other accessories options

See accessories section

### Notes:

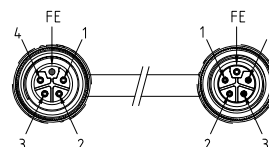
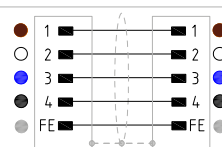
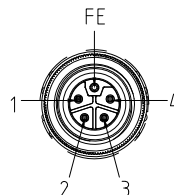
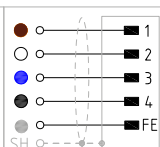
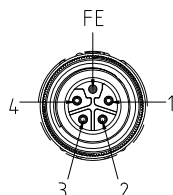
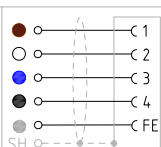
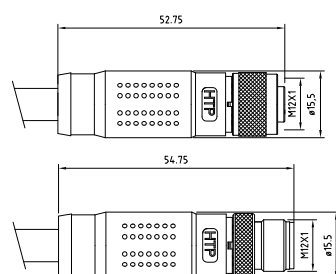
Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section

## M12 CIRCULAR CONNECTORS

### Moulded cable connectors - L-coded



#### Technical drawing



#### Product description

Connector type	Circular connector with moulded cable	Circular connector with moulded cable	Circular connector with moulded cable
Conforms to	IEC 61076-2-111	IEC 61076-2-111	IEC 61076-2-111
Construction type	M12 L-Coded	M12 L-Coded	M12 L-Coded
Description	Circular connector M12 series, L-coded, TOTALLY SHIELDED with moulded cable	Circular connector M12 series, L-coded, TOTALLY SHIELDED with moulded cable	Extension M12-M12 connectors, L-coded, TOTALLY SHIELDED with moulded cable
Part number	<b>L-12FJ5701Z-K6-IS</b>	<b>L-12MJ5701Z-K6-IS</b>	<b>L-12FJ5701Z12MJ</b>
Housing type	Straight 180°	Straight 180°	180°-180°
Cable gland	Moulded cable	Moulded cable	Moulded cable
Contacts type	Female	Male	Female-Male
Number of contacts	4poles + F.E.	4poles + F.E.	4poles + F.E.
Housing colour	Black	Black	Black

#### Technical data

Type of termination	Contacts to solder wires	Contacts to solder wires	Contacts to solder wires
Contacts material	Brass + Gold flash	Brass + Gold flash	Brass + Gold flash
Coupling nut type	Knurl round	Knurl round	Knurl round
M12 coupling nut material	Brass + Nickel plated	Brass + Nickel plated	Brass + Nickel plated
M12 coupling nut torque	0.4 N*m	0.4 N*m	0.4 N*m
Rated voltage	63V DC	63V DC	63V DC
Rated current	16A	16A	16A
O-ring material	NBR	-	NBR (on female connector)
Cable type	PVC/PVC CEI2022 SHIELDED	PVC/PVC CEI2022 SHIELDED	PVC/PVC CEI2022 SHIELDED
Cable jacket colour	Black	Black	Black
No. Conductors / Section	5x1.5mm <sup>2</sup>	5x1.5mm <sup>2</sup>	5x1.5mm <sup>2</sup>
Conductor colours	Brown; White; Blue; Black; Grey;	Brown; White; Blue; Black; Grey;	Brown; White; Blue; Black; Grey;
Cable diameter	ø10.4mm (±0.3)	ø10.4mm (±0.3)	ø10.4mm (±0.3)
Cable length	1m	1m	1m

#### Packaging

Qty/Bag	1 pc / bag	1 pc / bag	1 pc / bag
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#### Other accessories options

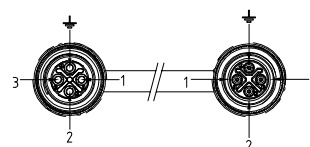
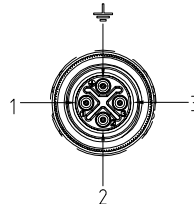
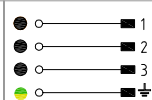
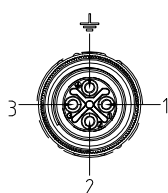
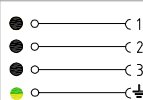
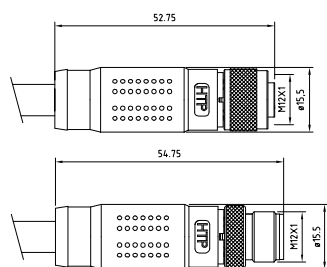
See accessories section

#### Notes:

Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section



### Technical drawing



### Product description

Connector type	Circular connector with moulded cable	Circular connector with moulded cable	Circular connector with moulded cable
Conforms to	IEC 61076-2-111	IEC 61076-2-111	IEC 61076-2-111
Construction type	M12 S-Coded	M12 S-Coded	M12 S-Coded
Description	Circular connector M12 series, S-coded, with moulded cable	Circular connector M12 series, S-coded, with moulded cable	Extension M12-M12 connectors, S-coded, with moulded cable
Part number	<b>S-12FD4461Z</b>	<b>S-12MD4461Z</b>	<b>S-12FD4461Z12MD</b>
Housing type	Straight 180°	Straight 180°	180°-180°
Cable gland	Moulded cable	Moulded cable	Moulded cable
Contacts type	Female	Male	Female-Male
Number of contacts	3poles + P.E.	3poles + P.E.	3poles + P.E.
Housing colour	Black	Black	Black

### Technical data

Type of termination	Contacts to crimp wires	Contacts to crimp wires	Contacts to crimp wires
Contacts material	Brass + Gold flash	Brass + Gold flash	Brass + Gold flash
Coupling nut type	Knurl round	Knurl round	Knurl round
M12 coupling nut material	Brass + Nickel plated	Brass + Nickel plated	Brass + Nickel plated
M12 coupling nut torque	0.4 N*m	0.4 N*m	0.4 N*m
Rated voltage	630V AC	630V AC	630V AC
Rated current	12A	12A	12A
O-ring material	NBR	-	NBR (on female connector)
Cable type	PVC/PVC CEI2022	PVC/PVC CEI2022	PVC/PVC CEI2022
Cable jacket colour	Black	Black	Black
No. Conductors / Section	4G1.5mm <sup>2</sup>	4G1.5mm <sup>2</sup>	4G1.5mm <sup>2</sup>
Conductor colours	Black 1; Black 2; Black 3; Yellow/Green;	Black 1; Black 2; Black 3; Yellow/Green;	Black 1; Black 2; Black 3; Yellow/Green;
Cable diameter	ø10mm (±0.3)	ø10mm (±0.3)	ø10mm (±0.3)
Cable length	1m	1m	1m

### Packaging

Qty/Bag	1 pc / bag	1 pc / bag	1 pc / bag
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### Other accessories options

See accessories section

### Notes:

Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section



# M12 CIRCULAR CONNECTORS

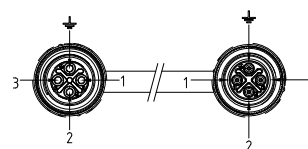
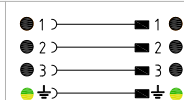
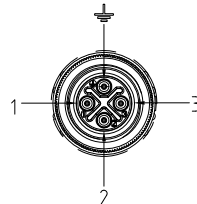
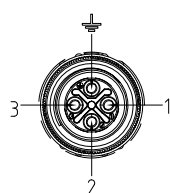
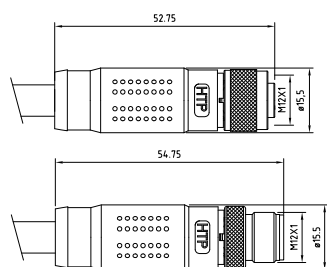
## Moulded cable connectors - S-coded



<b>Technical drawing</b>			
<b>Product description</b>			
Connector type	Circular connector with moulded cable	Circular connector with moulded cable	Circular connector with moulded cable
Conforms to	IEC 61076-2-111	IEC 61076-2-111	IEC 61076-2-111
Construction type	M12 S-Coded	M12 S-Coded	M12 S-Coded
Description	Circular connector M12 series,S-coded, TOTALLY SHIELDED with moulded cable	Circular connector M12 series,S-coded, TOTALLY SHIELDED with moulded cable	Extension M12-M12 connectors,S-coded, TOTALLY SHIELDED with moulded cable
Part number	<b>S-12FJ4351Z</b>	<b>S-12MJ4351Z</b>	<b>S-12FJ4351Z12MJ</b>
Housing type	Straight 180°	Straight 180°	180°-180°
Cable gland	Moulded cable	Moulded cable	Moulded cable
Contacts type	Female	Male	Female-Male
Number of contacts	3poles + P.E.	3poles + P.E.	3poles + P.E.
Housing colour	Black	Black	Black
<b>Technical data</b>			
Type of termination	Contacts to crimp wires	Contacts to crimp wires	Contacts to crimp wires
Contacts material	Brass+Gold flash	Brass+Gold flash	Brass+Gold flash
Coupling nut type	Knurl round	Knurl round	Knurl round
M12 coupling nut material	Brass+Nickel plated	Brass+Nickel plated	Brass+Nickel plated
M12 coupling nut torque	0.4 N*m	0.4 N*m	0.4 N*m
Rated voltage	630V AC	630V AC	630V AC
Rated current	12A	12A	12A
O-ring material	NBR	-	NBR (on female connector)
Cable type	PVC/PVC CEI2022 SHIELDED	PVC/PVC CEI2022 SHIELDED	PVC/PVC CEI2022 SHIELDED
Cable jacket colour	Black	Black	Black
No.Conductors / Section	4G1.5mm²	4G1.5mm²	4G1.5mm²
Conductor colours	Black 1; Black 2; Black 3; Yellow/Green;	Black 1; Black 2; Black 3; Yellow/Green;	Black 1; Black 2; Black 3; Yellow/Green;
Cable diameter	ø10mm (±0.3)	ø10mm (±0.3)	ø10mm (±0.3)
Cable length	1m	1m	1m
<b>Packaging</b>			
Qty/Bag	1 pc / bag	1 pc / bag	1 pc / bag
<b>Other accessories options</b>			
See accessories section			
<b>Notes:</b> Connectors available with different feautres: See the general features and codification scheme page See the cables list section			



### Technical drawing



### Product description

Connector type	Circular connector with moulded cable	Circular connector with moulded cable	Circular connector with moulded cable
Conforms to	IEC 61076-2-111 / UL approved	IEC 61076-2-111 / UL approved	IEC 61076-2-111 / UL approved
Construction type	M12 S-Coded	M12 S-Coded	M12 S-Coded
Description	Circular connector M12 series, S-coded, UL approved, with moulded cable	Circular connector M12 series, S-coded, UL approved, with moulded cable	Extension M12-M12 connectors, S-coded, UL approved, with moulded cable
Part number	<b>S-12FD4811Z-K6-UL</b>	<b>S-12MD4811Z-K6-UL</b>	<b>S-12FD4811Z12MD-UL</b>
Housing type	Straight 180°	Straight 180°	180°-180°
Cable gland	Moulded cable	Moulded cable	Moulded cable
Contacts type	Female	Male	Female-Male
Number of contacts	3poles + P.E.	3poles + P.E.	3poles + P.E.
Housing colour	Black	Black	Black

### Technical data

Type of termination	Contacts to crimp wires	Contacts to crimp wires	Contacts to crimp wires
Contacts material	Brass + Gold flash	Brass + Gold flash	Brass + Gold flash
Coupling nut type	Knurl round	Knurl round	Knurl round
M12 coupling nut material	Brass + Nickel plated	Brass + Nickel plated	Brass + Nickel plated
M12 coupling nut torque	0.4 N*m	0.4 N*m	0.4 N*m
Rated voltage	630V AC	630V AC	630V AC
Rated current	12A	12A	12A
O-ring material	NBR	-	NBR (on female connector)
Cable type	PVC/PVC ULstyle 20234 SHIELDED high flex	PVC/PVC ULstyle 20234 SHIELDED high flex	PVC/PVC ULstyle 20234 SHIELDED high flex
Cable jacket colour	Orange RAL2003	Orange RAL2003	Orange RAL2003
No. Conductors / Section	4GAWG16	4GAWG16	4GAWG16
Conductor colours	Black 1; Black 2; Black 3; Yellow/Green;	Black 1; Black 2; Black 3; Yellow/Green;	Black 1; Black 2; Black 3; Yellow/Green;
Cable diameter	ø8,6mm (±0.3)	ø8,6mm (±0.3)	ø8,6mm (±0.3)
Cable length	1m	1m	1m

### Packaging

Qty/Bag	1 pc / bag	1 pc / bag	1 pc / bag
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### Other accessories options

See accessories section

### Notes:

Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section

# M12 CIRCULAR CONNECTORS

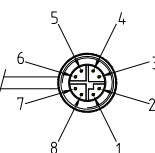
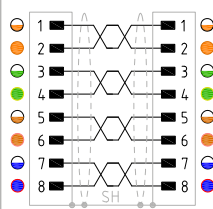
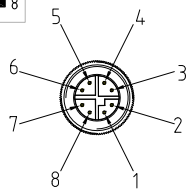
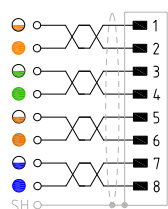
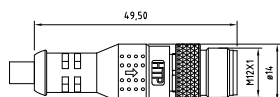
## Moulded cable connectors - S-coded



<b>Technical drawing</b>			
<b>Product description</b>			
Connector type	Circular connector with moulded cable	Circular connector with moulded cable	Circular connector with moulded cable
Conforms to	IEC 61076-2-111 / UL approved	IEC 61076-2-111 / UL approved	IEC 61076-2-111 / UL approved
Construction type	M12 S-Coded	M12 S-Coded	M12 S-Coded
Description	Circular connector M12 series,S-coded,UL, TOTALLY SHIELDED with moulded cable	Circular connector M12 series,S-coded,UL, TOTALLY SHIELDED with moulded cable	Extension M12-M12 connectors,S-coded,UL, TOTALLY SHIELDED with moulded cable
Part number	<b>S-12FJ4811Z-K6-UL</b>	<b>S-12MJ4811Z-K6-UL</b>	<b>S-12FJ4811Z12MD-UL</b>
Housing type	Straight 180°	Straight 180°	180°-180°
Cable gland	Moulded cable	Moulded cable	Moulded cable
Contacts type	Female	Male	Female-Male
Number of contacts	3poles + P.E.	3poles + P.E.	3poles + P.E.
Housing colour	Black	Black	Black
<b>Technical data</b>			
Type of termination	Contacts to crimp wires	Contacts to crimp wires	Contacts to crimp wires
Contacts material	Brass+Gold flash	Brass+Gold flash	Brass+Gold flash
Coupling nut type	Knurl round	Knurl round	Knurl round
M12 coupling nut material	Brass+Nickel plated	Brass+Nickel plated	Brass+Nickel plated
M12 coupling nut torque	0.4 N*m	0.4 N*m	0.4 N*m
Rated voltage	630V AC	630V AC	630V AC
Rated current	12A	12A	12A
O-ring material	NBR	-	NBR (on female connector)
Cable type	PVC/PVC ULstyle 20234 SHIELDED	PVC/PVC ULstyle 20234 SHIELDED	PVC/PVC ULstyle 20234 SHIELDED
Cable jacket colour	Orange RAL2003	Orange RAL2003	Orange RAL2003
No.Conductors / Section	4G1.5mm²	4G1.5mm²	4G1.5mm²
Conductor colours	Black 1; Black 2; Black 3; Yellow/Green;	Black 1; Black 2; Black 3; Yellow/Green;	Black 1; Black 2; Black 3; Yellow/Green;
Cable diameter	ø8.6mm (±0.3)	ø8.6mm (±0.3)	ø8.6mm (±0.3)
Cable length	1m	1m	1m
<b>Packaging</b>			
Qty/Bag	1 pc / bag	1 pc / bag	1 pc / bag
<b>Other accessories options</b>			
See accessories section			
<b>Notes:</b> Connectors available with different feautres: See the general features and codification scheme page See the cables list section			



### Technical drawing



### Product description

Connector type	Circular connector with moulded cable	Circular connector with moulded cable	
Conforms to	IEC 61076-2-101	IEC 61076-2-101	
Construction type	M12 X-Coded	M12 X-Coded	
Description	Circular connector M12 series, X-coded, TOTALLY SHIELDED with moulded cable	Extension M12-M12 connectors, X-coded, TOTALLY SHIELDED with moulded cable	
Part number	<b>X-12MJ8711Z-K6-IS</b>	<b>X-12MJ871Z12MJ-K6-IS</b>	
Housing type	Straight 180°	180°-180°	
Cable gland	Moulded cable	Moulded cable	
Contacts type	Male	Male-Male	
Number of contacts	8poles	8poles	
Housing colour	Black	Black	

### Technical data

Type of termination	Contacts to crimp wires	Contacts to crimp wires	
Contacts material	Brass + Gold flash	Brass + Gold flash	
Coupling nut type	Knurl round	Knurl round	
M12 coupling nut material	Brass + Nickel plated	Brass + Nickel plated	
M12 coupling nut torque	0.4 N*m	0.4 N*m	
Rated voltage	48V AC/DC	48V AC/DC	
Rated current	0.5A	0.5A	
O-ring material	-	-	
Cable type	PUR/TPO ULStyle20236 high flex SHIELDED	PUR/TPO ULStyle20236 high flex SHIELDED	
Cable jacket colour	Green RAL6016	Green RAL6016	
No. Conductors / Section	4x2xAWG26(0.14mm <sup>2</sup> )	4x2xAWG26(0.14mm <sup>2</sup> )	
Conductor colours	Wh/Or;Or;Wh/Gn;Gn;Wh/Bn;Bn;Wh/Bu;Bu	Wh/Or;Or;Wh/Gn;Gn;Wh/Bn;Bn;Wh/Bu;Bu	
Cable diameter	ø7.2mm (±0.3)	ø7.2mm (±0.3)	
Cable length	1m	1m	

### Packaging

Qty/Bag	1 pc / bag	1 pc / bag	
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### Other accessories options

See accessories section

### Notes:

Connectors available with different features:  
See the general features and codification scheme page  
See the cables list section

## Notes

[illegible]

#### • GENERAL FEATURES PANEL MOUNT CONNECTORS:

**Conductor cross section :**  
0.14(26AWG)...0.50mm<sup>2</sup>(20AWG).

**Type of terminations :**  
Solder wires.  
Solder PCB.

**Housing material :**  
Brass + Nickel plated  
PA66 (upon request).  
Stainless Steel AISI304  
(upon request).  
Stainless Steel AISI316  
(upon request).

**Internal core material :**  
PA66.

**Operating temperature :**  
-25°C +90°C

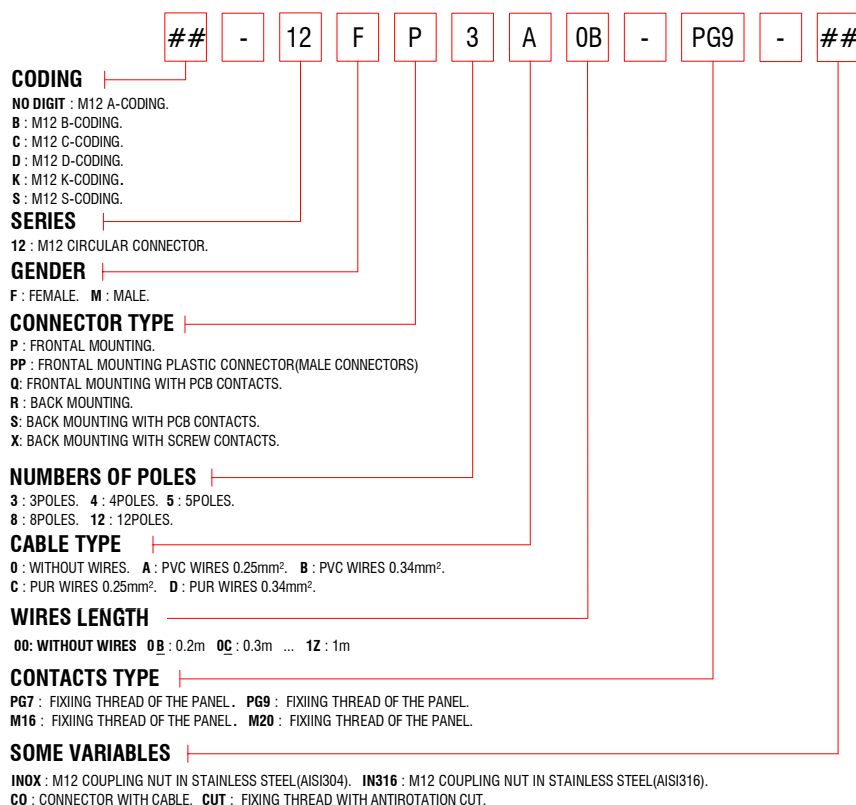
**Fixing system :**  
M12 coupling nut.

**Contact material and treatment :**  
Brass + Gold flash.

**Flammability resistance :**  
UL94-V2 - Standard.

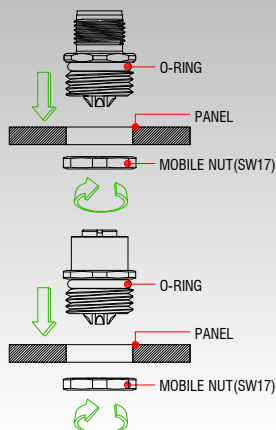
**Max. screw torque IEC60947-1**  
M12 coupling nut torque 0.4N\*m.

**Protection class :**  
IP 67 (assembled).



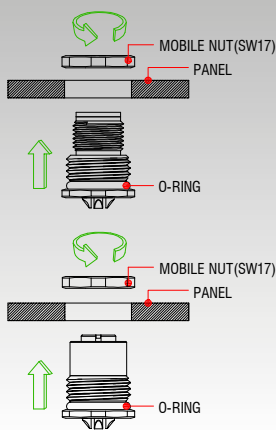
#### FRONT MOUNTING:

The type of mounting of the panel connector into the panel is defined with reference to the way the connector is mounted into the panel. In front mounting the mobile nut is in the back side towards the panel.



#### BACK MOUNTING:

The type of mounting of the panel connector into the panel is defined with reference to the way the connector is mounted into the panel. In back mounting the mobile nut is in the front side towards the panel.



#### PANEL FEATURES:

Suitable for standard connector.



\* Suitable for connector with cut on the fixed thread.

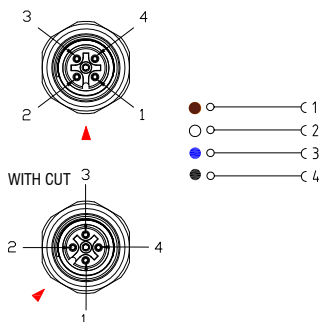
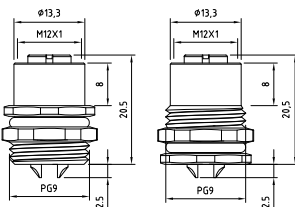
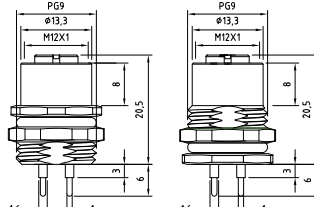
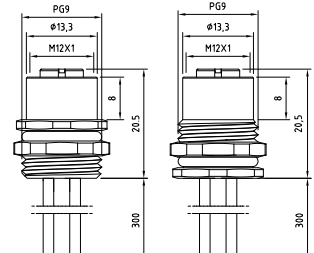




## M12 CIRCULAR CONNECTORS

Panel mount - A-coded



<b>Technical drawing</b>									
<b>Product description</b>									
Connector type		Circular connector panel mount		Circular connector panel mount		Circular connector panel mount			
Conforms to		IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101			
Construction type		M12 A-Coded		M12 A -Coded		M12 A -Coded			
Description		Circular connector M12 series,panel mount		Circular connector M12 series to panel mount with contacts suitable for solder PCB.		Circular connector M12 series to panel mount with PVC soldered wires.			
Part number		<b>12FP4000-PG9</b>	<b>12FR4000-PG9</b>	<b>12FQ4000-PG9-CUT</b>	<b>12FS4000-PG9-CUT</b>	<b>12FP4A0C-PG9</b>	<b>12FR4A0C-PG9</b>		
Housing type		Frontal panel side		Back panel side		Frontal panel side		Back panel side	
Contacts type		Female		Female		Female			
Number of contacts		4poles		4poles		4poles			
Fixing thread		PG9		PG9 + CUT		PG9			
Cut size		-		13.3mm		-			
<b>Technical data</b>									
Type of termination		Contacts to solder wires		Contacts suitable for solder PCB		Contacts to solder wires			
Contacts material		Brass + Gold flash		Brass + Gold flash		Brass + Gold flash			
Housing material		Brass + Nickel plated		Brass + Nickel plated		Brass + Nickel plated			
Mobile nut material		Brass + Nickel plated (SW17)		Brass + Nickel plated (SW17)		Brass + Nickel plated (SW17)			
M12 coupling nut torque		0.4 N*m		0.4 N*m		0.4 N*m			
Rated voltage		250V AC / DC		250V AC / DC		250V AC / DC			
Rated current		4A		4A		4A			
O-ring material		NBR		NBR		NBR			
Cable type		-		-		PVC			
No. Conductors / Section		-		-		4 x 0.25mm <sup>2</sup>			
Conductor colours		-		-		Brown; White; Blue; Black			
Cable diameter		-		-		-			
Cable length		-		-		0.3m			
<b>Packaging</b>									
Qty/Bag		Not defined		Not defined		Not defined			
<b>Other accessories options</b>									
See accessories section									
<b>Notes:</b>									
Connectors available with different feautures:									
See the general features and codification scheme page									
See the cables list section									