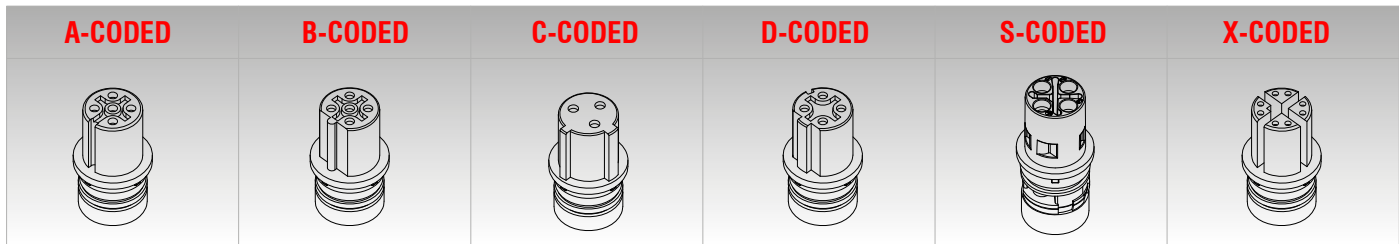




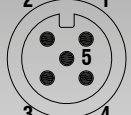
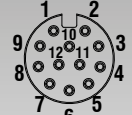
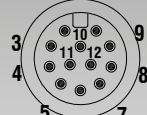
M12 CIRCULAR CONNECTORS

M12 CIRCULAR CONNECTORS

• CODING OF M12 CONNECTORS:



• M12 A-CODED I/O NETWORKS:

FEMALE	MALE	FEMALE	MALE	FEMALE	MALE
					
3 POLES: 1 : BROWN ● 3 : BLUE ● 4 : BLACK ●		8 POLES: 1 : WHITE ○ 2 : BROWN ● 3 : GREEN ● 4 : YELLOW ● 5 : GREY ● 6 : PINK ● 7 : BLUE ● 8 : RED ●		12 POLES: 1 : BROWN ● 2 : BLUE ● 3 : WHITE ○ 4 : GREEN ● 5 : PINK ● 6 : YELLOW ● 7 : BLACK ● 8 : GREY ● 9 : RED ● 10 : VIOLET ● 11 : PINK/GREY ● 12 : RED/BLUE ●	
4 POLES: 1 : BROWN ● 2 : WHITE ○ 3 : BLUE ● 4 : BLACK ●					
5 POLES: 1 : BROWN ● 2 : WHITE ○ 3 : BLUE ● 4 : BLACK ● 5 : GREY ●					

NOTE:

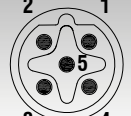
All the connector coding can be used in I/O (Input/Output) networks to prevent connection mistakes using different coupling keys or to be used in many applications when the connectors get coupling with a different cables.

• M12 A-CODED DEVICENET NETWORKS:

FEMALE	MALE	5 POLES:
		1 : SHIELD ● 2 : RED ● 3 : BLACK ● 4 : WHITE ○ 5 : BLUE ●



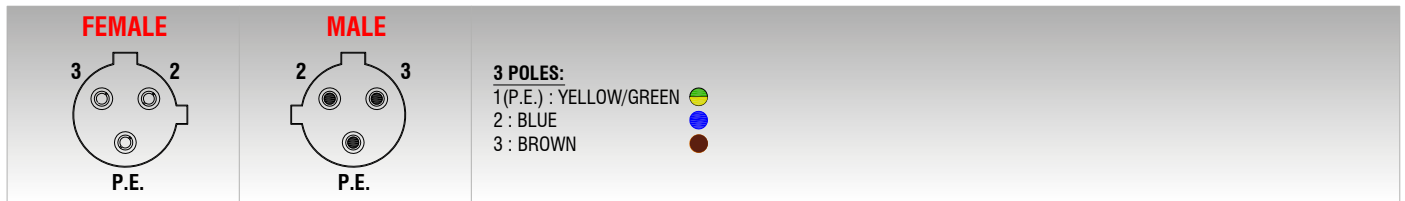
• M12 B-CODED PROFIBUS NETWORKS:

FEMALE	MALE	5 POLES:
		2 : GREEN ● 4 : RED ● 5 : SHIELD ● TOTALLY SHIELDED CONNECTOR 360°



M12 CIRCULAR CONNECTORS

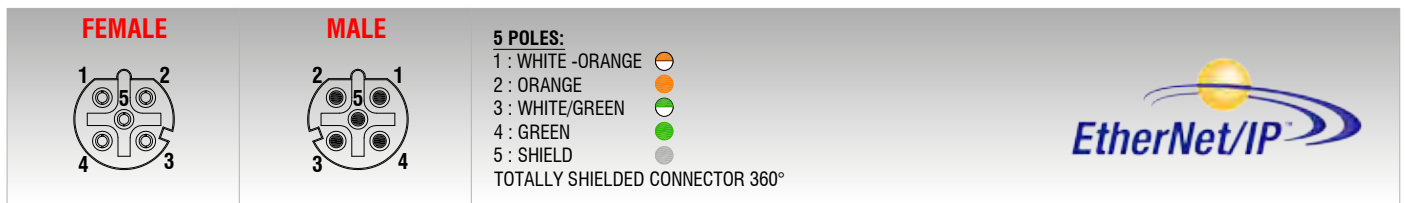
• M12 C-CODED I/O NETWORKS:



• M12 D-CODED PROFINET/ETHERCAT NETWORKS:



• M12 D-CODED ETHERNET NETWORKS:



• M12 X-CODED ETHERNET NETWORKS:



• M12 S-CODED POWER CONNECTOR :



M12 CIRCULAR CONNECTORS

• GENERAL FEATURES OF FIELD ATTACHABLE CONNECTORS:

Cable Gland :

Plastic Housing

PG7 : Ø CABLE 3.5-6mm.

PG9 : Ø CABLE 4-8mm.

PG11 : Ø CABLE 6.5-9.5mm.

SK : Ø CABLE 4-8.6mm.

Metal Housing : Ø CABLE 4-8mm.

Conductor cross section :

0.14(26AWG)...0.75mm²(18AWG).

Fixing system :

M12 coupling nut.

Max. screw torque IEC60947-1 :

Contact screw torque 0.2N*m.

M12 coupling nut torque 0.4N*m.

Type of terminations :

Screw.

Solder wires(12 poles).

Contact material and treatment :

Brass + Gold flash.

Housing material :

PA66 UL94-V2.

Brass+Nickel plated.

Internal core material :

PA66 UL94-V2.

Coupling nut material :

Brass+Nickel plated.

Stainless steel AISI304(upon request).

Stainless steel AISI316(upon request).

Flammability resistance :

UL94-V2 - Standard.

UL94-V0 - ATEX approved

(upon request).

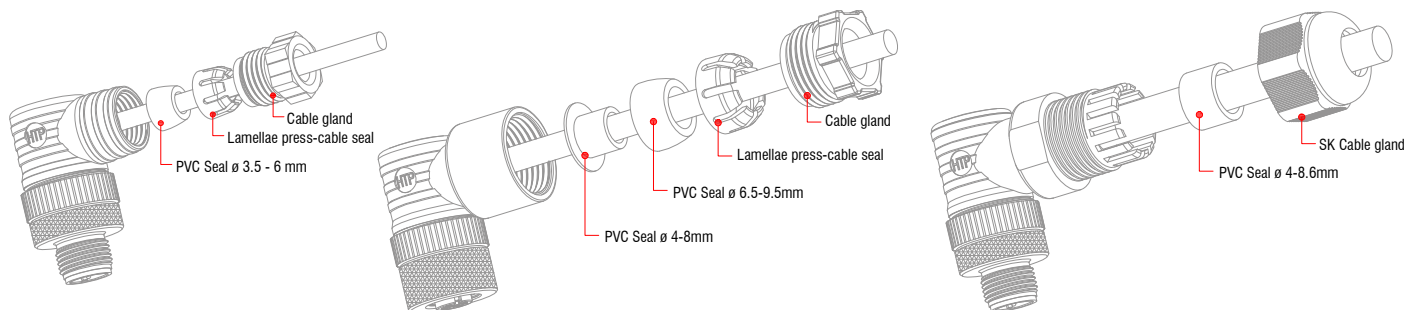
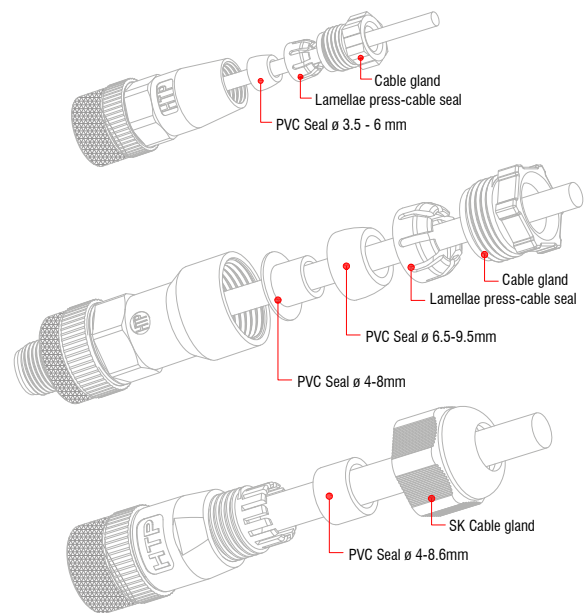
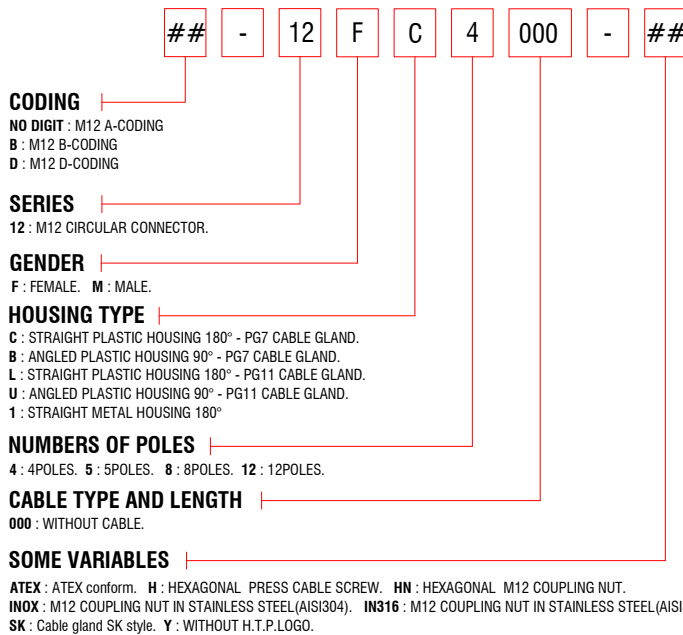
Protection class :

IP65/67 (assembled).

Operating temperature :

-40°C +90°C.

-25°C +85°C(metal housing).



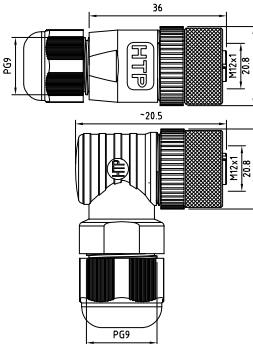
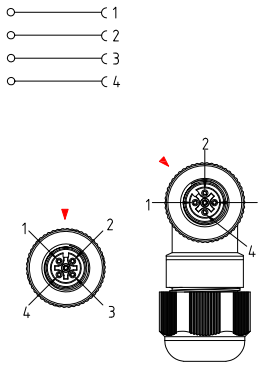
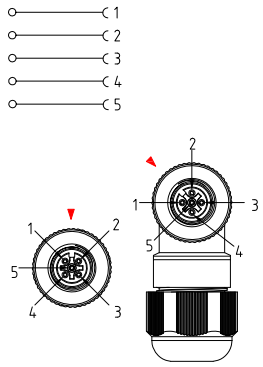
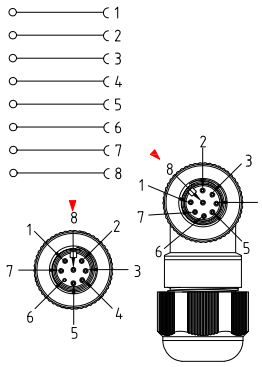
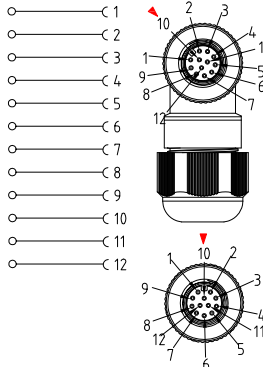
M12 CIRCULAR CONNECTORS



Technical drawing									

M12 CIRCULAR CONNECTORS

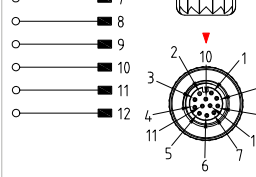
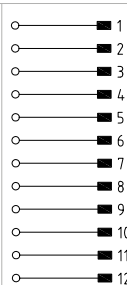
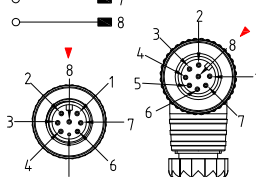
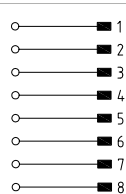
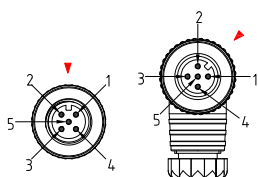
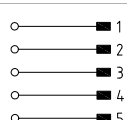
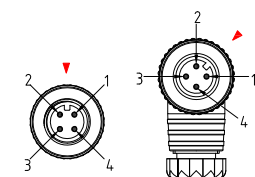
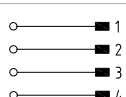
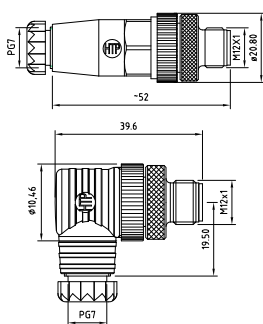


Technical drawing											
Product description											
Connector type		Circular connector field attachable		Circular connector field attachable		Circular connector field attachable		Circular connector field attachable		Circular connector field attachable	
Conforms to		IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101	
Construction type		M12 A-Coded		M12 A-Coded		M12 A-Coded		M12 A-Coded		M12 A-Coded	
Part number		12FC4000-SK 12FB4000-SK		12FC5000-SK 12FB5000-SK		12FC8000-SK 12FB8000-SK		12FC12000-SK 12FB12000-SK			
Housing type		Straight 180° Angled 90°		Straight 180° Angled 90°		Straight 180° Angled 90°		Straight 180° Angled 90°		Straight 180° Angled 90°	
Cable gland		PG9 SK model		PG9 SK model		PG9 SK model		PG9 SK model		PG9 SK model	
Description		Circular connector M12 series field attachable		Circular connector M12 series field attachable		Circular connector M12 series field attachable		Circular connector M12 series field attachable		Circular connector M12 series field attachable	
Contacts type		Female		Female		Female		Female		Female	
Number of contacts		4poles		5poles		8poles		12poles			
Housing colour		Black		Black		Black		Black		Black	
Technical data											
Type of termination		Screw contacts		Screw contacts		Screw contacts		Solder contacts			
Contact screw torque		0.2 N*m		0.2 N*m		0.2 N*m		-			
Housing material		PA66 UL94-V2		PA66 UL94-V2		PA66 UL94-V2		PA66 UL94-V2			
Contacts material		Brass + Gold flash		Brass + Gold flash		Brass + Gold flash		Brass + Gold flash			
Coupling nut type		Knurl round		Knurl round		Knurl round		Knurl round			
M8 coupling nut material		Brass + Nickel plated		Brass + Nickel plated		Brass + Nickel plated		Brass + Nickel plated			
M8 coupling nut torque		0.4 N*m		0.4 N*m		0.4 N*m		0.4 N*m			
Rated voltage		250V AC/DC		60V AC/DC		30V AC/DC		30V AC/DC			
Rated current		4A		4A		2A		1.5A			
Temperature range		-40°C +90°C		-40°C +90°C		-40°C +90°C		-40°C +90°C			
O-ring material		NBR		NBR		NBR		NBR			
Suitable cable		ø 4 - 9mm		ø 4 - 9mm		ø 4 - 9mm		ø 4 - 9mm			
Packaging											
Qty/Bag		1 pc / bag		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											

M12 CIRCULAR CONNECTORS



Technical drawing



Product description

Connector type	Circular connector field attachable		Circular connector field attachable		Circular connector field attachable		Circular connector field attachable	
Conforms to	IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101	
Construction type	M12 A-Coded		M12 A-Coded		M12 A-Coded		M12 A-Coded	
Part number	12MC4000	12MB4000	12MC5000	12MB5000	12MC8000	12MB8000	12MC12000	12MB12000
Housing type	Straight 180°	Angled 90°	Straight 180°	Angled 90°	Straight 180°	Angled 90°	Straight 180°	Angled 90°
Cable gland	PG7 standard		PG7 standard		PG7 standard		PG7 standard	
Description	Circular connector M12 series field attachable		Circular connector M12 series field attachable		Circular connector M12 series field attachable		Circular connector M12 series field attachable	
Contacts type	Male		Male		Male		Male	
Number of contacts	4poles		5poles		8poles		12poles	
Housing colour	Black		Black		Black		Black	

Technical data

Type of termination	Screw contacts	Screw contacts	Screw contacts	Solder contacts
Contact screw torque	0.2 N*m	0.2 N*m	0.2 N*m	-
Housing material	PA66 UL94-V2	PA66 UL94-V2	PA66 UL94-V2	PA66 UL94-V2
Contacts material	Brass + Gold flash	Brass + Gold flash	Brass + Gold flash	Brass + Gold flash
Coupling nut type	Knurl round	Knurl round	Knurl round	Knurl round
M12 coupling nut material	Brass + Nickel plated	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	0.4 N*m
Rated voltage	250V AC/DC	60V AC/DC	30V AC/DC	30V AC/DC
Rated current	4A	4A	2A	1.5A
Temperature range	-40°C + 90°C	-40°C + 90°C	-40°C + 90°C	-40°C + 90°C
O-ring material	NBR	NBR	NBR	NBR
Suitable cable	ø 4 - 6mm	ø 4 - 6mm	ø 4 - 6mm	ø 4 - 6mm

Packaging

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

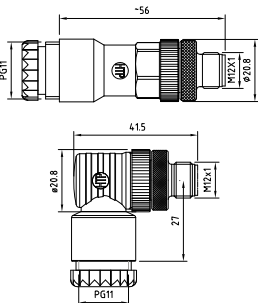
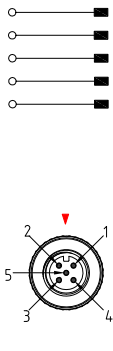
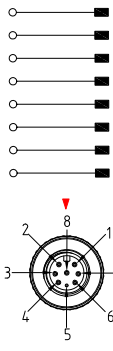
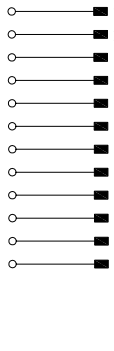
See accessories section

Notes:

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

M12 CIRCULAR CONNECTORS

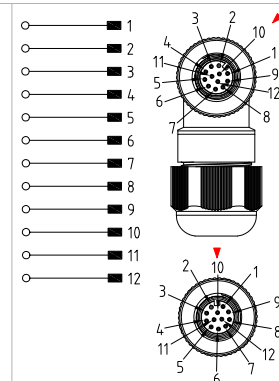
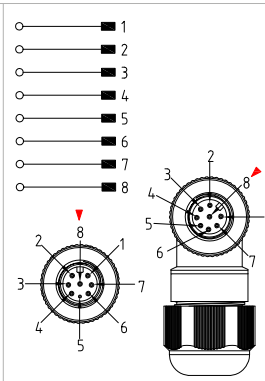
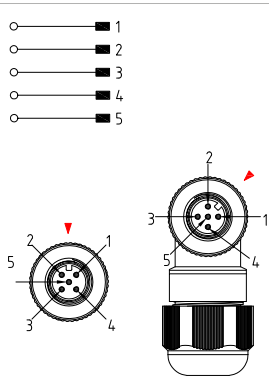
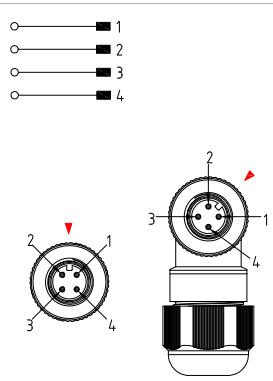
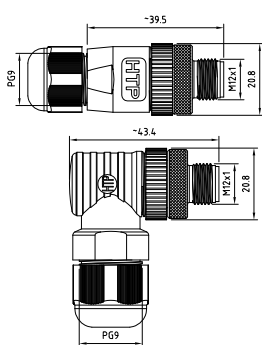


Technical drawing											
Product description											
Connector type		Circular connector field attachable		Circular connector field attachable		Circular connector field attachable		Circular connector field attachable		Circular connector field attachable	
Conforms to		IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101	
Construction type		M12 A-Coded		M12 A-Coded		M12 A-Coded		M12 A-Coded		M12 A-Coded	
Part number		12ML4000 12MU4000		12ML5000 12MU5000		12ML8000 12MU8000		12ML12000 12MU12000			
Housing type		Straight 180° Angled 90°		Straight 180° Angled 90°		Straight 180° Angled 90°		Straight 180° Angled 90°		Straight 180° Angled 90°	
Cable gland		PG9-11 unified /Double cable exit		PG9-11 unified /Double cable exit		PG9-11 unified /Double cable exit		PG9-11 unified /Double cable exit		PG9-11 unified /Double cable exit	
Description		Circular connector M12 series field attachable		Circular connector M12 series field attachable		Circular connector M12 series field attachable		Circular connector M12 series field attachable		Circular connector M12 series field attachable	
Contacts type		Male		Male		Male		Male		Male	
Number of contacts		4poles		5poles		8poles		12poles			
Housing colour		Black		Black		Black		Black			
Technical data											
Type of termination		Screw contacts		Screw contacts		Screw contacts		Screw contacts		Solder contacts	
Contact screw torque		0.2 N*m		0.2 N*m		0.2 N*m		0.2 N*m		-	
Housing material		PA66 UL94-V2		PA66 UL94-V2		PA66 UL94-V2		PA66 UL94-V2		PA66 UL94-V2	
Contacts material		Brass + Gold flash		Brass + Gold flash		Brass + Gold flash		Brass + Gold flash		Brass + Gold flash	
Coupling nut type		Knurl round		Knurl round		Knurl round		Knurl round		Knurl round	
M8 coupling nut material		Brass + Nickel plated		Brass + Nickel plated		Brass + Nickel plated		Brass + Nickel plated		Brass + Nickel plated	
M8 coupling nut torque		0.4 N*m		0.4 N*m		0.4 N*m		0.4 N*m		0.4 N*m	
Rated voltage		250V AC/DC		60V AC/DC		30V AC/DC		30V AC/DC		30V AC/DC	
Rated current		4A		4A		2A		1.5A			
Temperature range		-40°C + 90°C		-40°C + 90°C		-40°C + 90°C		-40°C + 90°C			
O-ring material		NBR		NBR		NBR		NBR			
Suitable cable		ø cable 4-8mm ø cable 6.5-9.5mm Double exit ø6mm(max.)		ø cable 4-8mm ø cable 6.5-9.5mm Double exit ø6mm(max.)		ø cable 4-8mm ø cable 6.5-9.5mm Double exit ø6mm(max.)		ø cable 4-8mm ø cable 6.5-9.5mm Double exit ø6mm(max.)			
Packaging											
Qty/Bag		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											

M12 CIRCULAR CONNECTORS



Technical drawing



Product description

Connector type	Circular connector field attachable		Circular connector field attachable		Circular connector field attachable		Circular connector field attachable	
Conforms to	IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101	
Construction type	M12 A-Coded		M12 A-Coded		M12 A-Coded		M12 A-Coded	
Part number	12MC4000-SK	12MB4000-SK	12MC5000-SK	12MB5000-SK	12MC8000-SK	12MB8000-SK	12MC12000-SK	12MB12000-SK
Housing type	Straight 180° Angled 90°		Straight 180° Angled 90°		Straight 180° Angled 90°		Straight 180° Angled 90°	
Cable gland	PG9 SK model		PG9 SK model		PG9 SK model		PG9 SK model	
Description	Circular connector M12 series field attachable		Circular connector M12 series field attachable		Circular connector M12 series field attachable		Circular connector M12 series field attachable	
Contacts type	Male		Male		Male		Male	
Number of contacts	4poles		5poles		8poles		12poles	
Housing colour	Black		Black		Black		Black	

Technical data

Type of termination	Screw contacts	Screw contacts	Screw contacts	Solder contacts
Contact screw torque	0.2 N*m	0.2 N*m	0.2 N*m	-
Housing material	PA66 UL94-V2	PA66 UL94-V2	PA66 UL94-V2	PA66 UL94-V2
Contacts material	Brass + Gold flash	Brass + Gold flash	Brass + Gold flash	Brass + Gold flash
Coupling nut type	Knurl round	Knurl round	Knurl round	Knurl round
M12 coupling nut material	Brass + Nickel plated	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	0.4 N*m
Rated voltage	250V AC/DC	60V AC/DC	30V AC/DC	30V AC/DC
Rated current	4A	4A	2A	1.5A
Temperature range	-40°C + 90°C	-40°C + 90°C	-40°C + 90°C	-40°C + 90°C
O-ring material	NBR	NBR	NBR	NBR
Suitable cable	ø 4 - 9mm	ø 4 - 9mm	ø 4 - 9mm	ø 4 - 9mm

Packaging

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

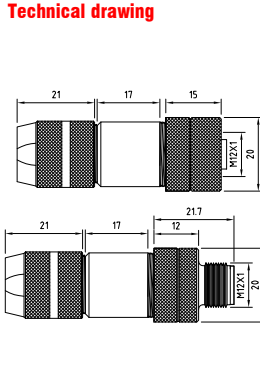
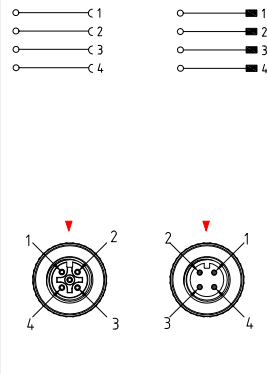
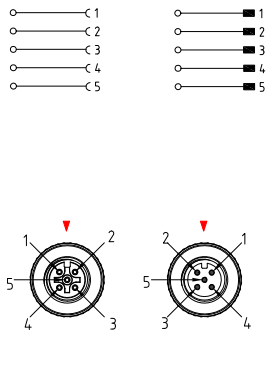
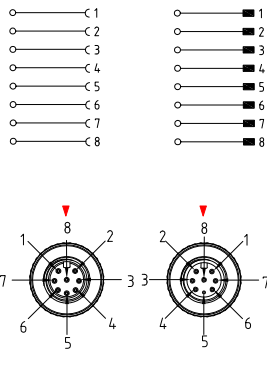
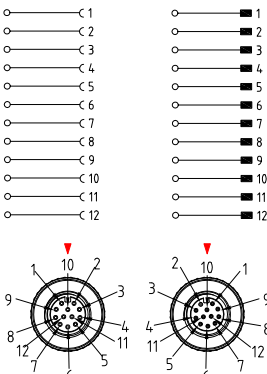
See accessories section

Notes:

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

M12 CIRCULAR CONNECTORS

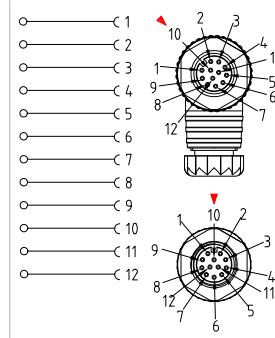
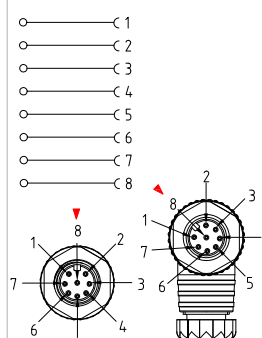
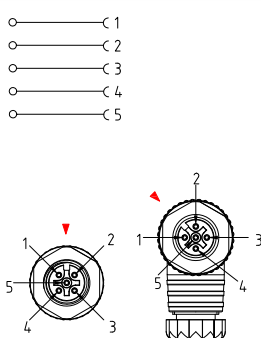
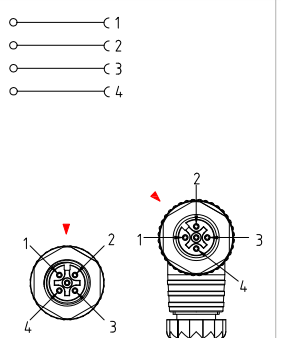
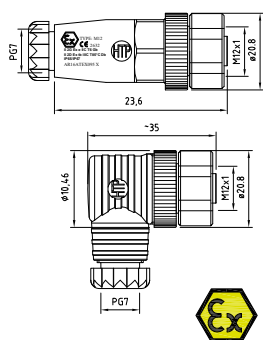


Technical drawing											
Product description											
Connector type	Circular connector field attachable		Circular connector field attachable		Circular connector field attachable		Circular connector field attachable		Circular connector field attachable		
Conforms to	IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101		
Construction type	M12 A-Coded		M12 A-Coded		M12 A-Coded		M12 A-Coded		M12 A-Coded		
Part number	12F14000	12M14000	12F15000	12M15000	12F18000	12M18000	12F112000	12M112000			
Housing type	Straight 180°		Straight 180°		Straight 180°		Straight 180°		Straight 180°		
Cable gland	PG9 standard		PG9 standard		PG9 standard		PG9 standard		PG9 standard		
Description	Circular connector M12 series field attachable TOTALLY SHIELDED		Circular connector M12 series field attachable TOTALLY SHIELDED		Circular connector M12 series field attachable TOTALLY SHIELDED		Circular connector M12 series field attachable TOTALLY SHIELDED		Circular connector M12 series field attachable TOTALLY SHIELDED		
Contacts type	Female	Male	Female	Male	Female	Male	Female	Male			
Number of contacts	4poles		5poles		8poles		12poles				
Housing colour	Black		Black		Black		Black				
Technical data											
Type of termination	Screw contacts		Screw contacts		Screw contacts		Solder contacts				
Contact screw torque	0.2 N*m		0.2 N*m		0.2 N*m		-				
Housing material	Brass + Nickel plated		Brass + Nickel plated		Brass + Nickel plated		Brass + Nickel plated				
Contacts material	Brass + Gold flash		Brass + Gold flash		Brass + Gold flash		Brass + Gold flash				
Coupling nut type	Knurl round		Knurl round		Knurl round		Knurl round				
M8 coupling nut material	Brass + Nickel plated		Brass + Nickel plated		Brass + Nickel plated		Brass + Nickel plated				
M8 coupling nut torque	0.4 N*m		0.4 N*m		0.4 N*m		0.4 N*m				
Rated voltage	250V AC/DC		60V AC/DC		30V AC/DC		30V AC/DC				
Rated current	4A		4A		2A		1.5A				
Temperature range	-40°C + 90°C		-40°C + 90°C		-40°C + 90°C		-40°C + 90°C				
O-ring material	NBR		NBR		NBR		NBR				
Suitable cable	ø 4 - 8mm		ø 4 - 8mm		ø 4 - 8mm		ø 4 - 8mm				
Packaging											
Qty/Bag	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											

M12 CIRCULAR CONNECTORS



Technical drawing



Product description

Connector type	Circular connector field attachable		Circular connector field attachable		Circular connector field attachable		Circular connector field attachable	
Conforms to	IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101	
Construction type	M12 A-Coded		M12 A-Coded		M12 A-Coded		M12 A-Coded	
Part number	12FC4000-ATEX	12FB4000-ATEX	12FC5000-ATEX	12FB5000-ATEX	12FC8000-ATEX	12FB8000-ATEX	12FC12000-ATEX	12FB12000-ATEX
Housing type	Straight 180°	Angled 90°	Straight 180°	Angled 90°	Straight 180°	Angled 90°	Straight 180°	Angled 90°
Cable gland	PG7 standard		PG7 standard		PG7 standard		PG7 standard	
Description	Circular connector M12 series field attachable, ATEX conform.		Circular connector M12 series field attachable, ATEX conform.		Circular connector M12 series field attachable, ATEX conform.		Circular connector M12 series field attachable, ATEX conform.	
Contacts type	Female		Female		Female		Female	
Number of contacts	4poles		5poles		8poles		12poles	
Housing colour	Black		Black		Black		Black	

Technical data

Type of termination	Screw contacts	Screw contacts	Screw contacts	Solder contacts
Contact screw torque	0.2 N*m	0.2 N*m	0.2 N*m	-
Housing material	PA66 UL94-V0	PA66 UL94-V0	PA66 UL94-V0	PA66 UL94-V0
Contacts material	Brass + Gold flash	Brass + Gold flash	Brass + Gold flash	Brass + Gold flash
Coupling nut type	Knurl round	Knurl round	Knurl round	Knurl round
M12 coupling nut material	Brass + Nickel plated	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	0.4 N*m
Rated voltage	250V AC/DC	60V AC/DC	30V AC/DC	30V AC/DC
Rated current	4A	4A	2A	1.5A
Temperature range	-40°C + 90°C	-40°C + 90°C	-40°C + 90°C	-40°C + 90°C
O-ring material	NBR	NBR	NBR	NBR
Suitable cable	ø 4 - 6mm	ø 4 - 6mm	ø 4 - 6mm	ø 4 - 6mm

Packaging

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

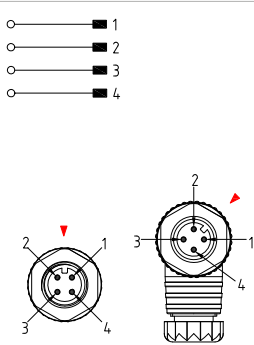
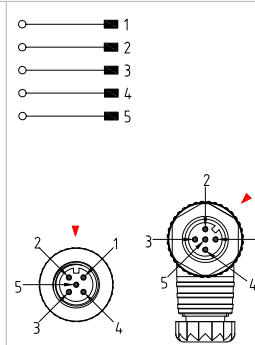
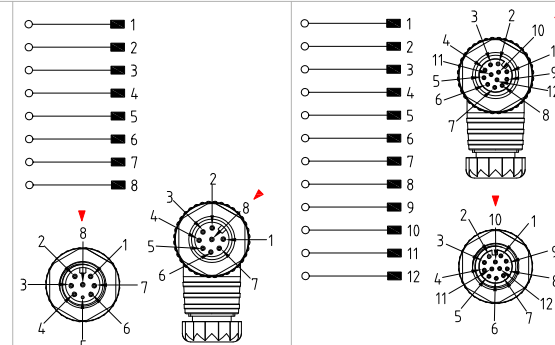
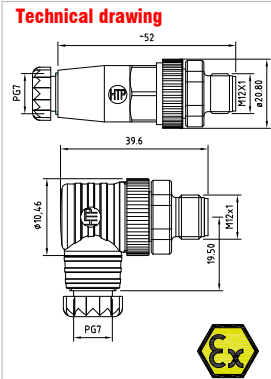
See accessories section

Notes:

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

M12 CIRCULAR CONNECTORS

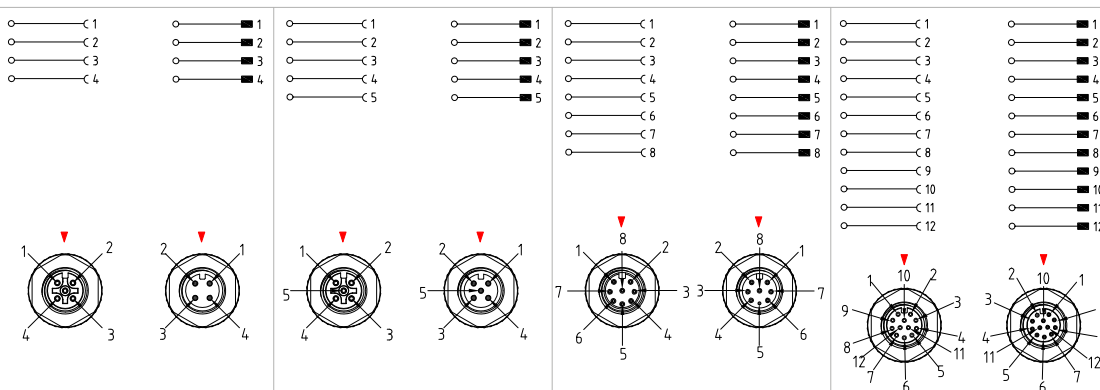
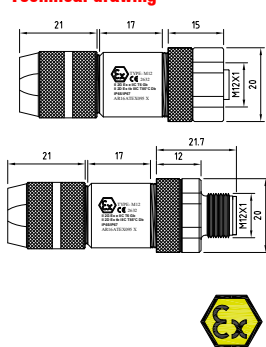


Technical drawing									
									
Product description									
Connector type		Circular connector field attachable		Circular connector field attachable		Circular connector field attachable		Circular connector field attachable	
Conforms to		IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101	
Construction type		M12 A-Coded		M12 A-Coded		M12 A-Coded		M12 A-Coded	
Part number		12MC4000-ATEX 12MB4000-ATEX		12MC5000-ATEX 12MB5000-ATEX		12MC8000-ATEX 12MB8000-ATEX		12MC12000-ATEX12MB12000-ATEX	
Housing type		Straight 180° Angled 90°		Straight 180° Angled 90°		Straight 180° Angled 90°		Straight 180° Angled 90°	
Cable gland		PG7 standard		PG7 standard		PG7 standard		PG7 standard	
Description		Circular connector M12 series field attachable,ATEX conform.		Circular connector M12 series field attachable,ATEX conform.		Circular connector M12 series field attachable,ATEX conform.		Circular connector M12 series field attachable,ATEX conform.	
Contacts type		Male		Male		Male		Male	
Number of contacts		4poles		5poles		8poles		12poles	
Housing colour		Black		Black		Black		Black	
Technical data									
Type of termination		Screw contacts		Screw contacts		Screw contacts		Solder contacts	
Contact screw torque		0.2 N*m		0.2 N*m		0.2 N*m		-	
Housing material		PA66 UL94-V0		PA66 UL94-V0		PA66 UL94-V0		PA66 UL94-V0	
Contacts material		Brass + Gold flash		Brass + Gold flash		Brass + Gold flash		Brass + Gold flash	
Coupling nut type		Knurl round		Knurl round		Knurl round		Knurl round	
M12 coupling nut material		Brass + Nickel plated		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		0.4 N*m	
Rated voltage		250V AC/DC		60V AC/DC		30V AC/DC		30V AC/DC	
Rated current		4A		4A		2A		1.5A	
Temperature range		-40°C + 90°C		-40°C + 90°C		-40°C + 90°C		-40°C + 90°C	
O-ring material		NBR		NBR		NBR		NBR	
Suitable cable		ø 4 - 6mm		ø 4 - 6mm		ø 4 - 6mm		ø 4 - 6mm	
Packaging									
Qty/Bag		1 pc / bag		1 pc / bag		1 pc / bag		1 pc / bag	
Other accessories options									
See accessories section									
Note: Connectors available with different features: See the general features and codification scheme page									

M12 CIRCULAR CONNECTORS



Technical drawing



Product description

Connector type	Circular connector field attachable		Circular connector field attachable		Circular connector field attachable		Circular connector field attachable	
Conforms to	IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101	
Construction type	M12 A-Coded		M12 A-Coded		M12 A-Coded		M12 A-Coded	
Part number	12F14000-ATEX	12M14000-ATEX	12F15000-ATEX	12M15000-ATEX	12F18000-ATEX	12M18000-ATEX	12F112000-ATEX	12M112000-ATEX
Housing type	Straight 180°		Straight 180°		Straight 180°		Straight 180°	
Cable gland	PG9 standard		PG9 standard		PG9 standard		PG9 standard	
Description	Circular connector M12 series field attachable TOTALLY SHIELDED, ATEX conform.		Circular connector M12 series field attachable TOTALLY SHIELDED, ATEX conform.		Circular connector M12 series field attachable TOTALLY SHIELDED, ATEX conform.		Circular connector M12 series field attachable TOTALLY SHIELDED, ATEX conform.	
Contacts type	Female	Male	Female	Male	Female	Male	Female	Male
Number of contacts	4poles		5poles		8poles		12poles	
Housing colour	Black		Black		Black		Black	

Technical data

Type of termination	Screw contacts	Screw contacts	Screw contacts	Solder contacts
Contact screw torque	0.2 N*m	0.2 N*m	0.2 N*m	-
Housing material	Brass + Nickel plated	Brass + Nickel plated	Brass + Nickel plated	Brass + Nickel plated
Contacts material	Brass + Gold flash	Brass + Gold flash	Brass + Gold flash	Brass + Gold flash
Coupling nut type	Knurl round	Knurl round	Knurl round	Knurl round
M12 coupling nut material	Brass + Nickel plated	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	0.4 N*m
Rated voltage	250V AC/DC	60V AC/DC	30V AC/DC	30V AC/DC
Rated current	4A	4A	2A	1.5A
Temperature range	-40°C +90°C	-40°C +90°C	-40°C +90°C	-40°C +90°C
O-ring material	NBR	NBR	NBR	NBR
Suitable cable	ø 4 - 8mm	ø 4 - 8mm	ø 4 - 8mm	ø 4 - 8mm

Packaging

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

See accessories section

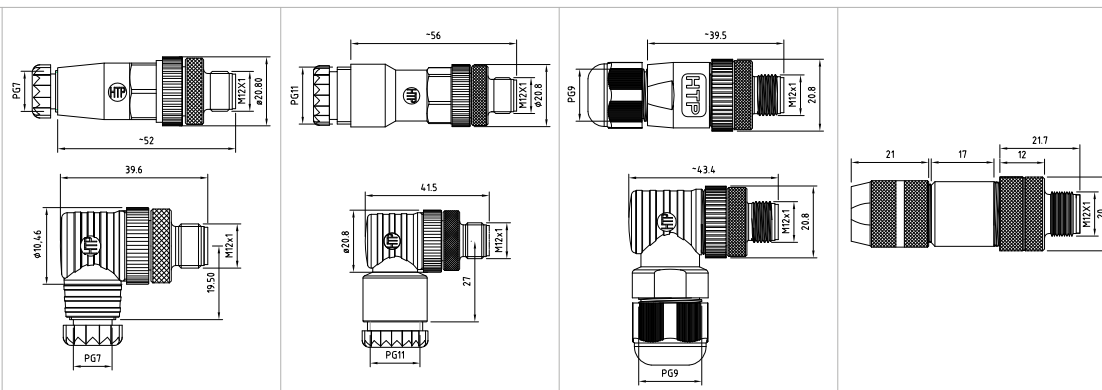
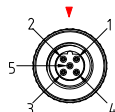
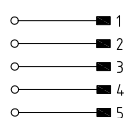
Notes:

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

M12 CIRCULAR CONNECTORS



Technical drawing



Product description

Connector type	Circular connector field attachable		Circular connector field attachable		Circular connector field attachable		Circular connector field attachable
Conforms to	IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101
Construction type	M12 B-Coded		M12 B-Coded		M12 B-Coded		M12 B-Coded
Part number	B-12MC5000	B-12MB5000	B-12ML5000	B-12MU5000	B-12MC5000-SK	B-12MB5000-SK	B-12M15000
Housing type	Straight 180°	Angled 90°	Straight 180°	Angled 90°	Straight 180°	Angled 90°	Straight 180°
Cable gland	PG7 standard		PG9-11 unified /Double cable exit		SK model		PG9 standard
Description	Circular connector M12 series B-coded,field attachable		Circular connector M12 series B-coded,field attachable		Circular connector M12 series B-coded,field attachable		Circular connector M12 series B-coded,field attachable
Contacts type	Male		Male		Male		Male
Number of contacts	5poles		5poles		5poles		5poles
Housing colour	Black		Black		Black		Black

Technical data

Type of termination	Screw contacts		Screw contacts		Screw contacts		Screw contacts
Contact screw torque	0.2 N*m		0.2 N*m		0.2 N*m		0.2 N*m
Housing material	PA66 UL94-V2		PA66 UL94-V2		PA66 UL94-V2		Brass + Nickel plated
Contacts material	Brass + Gold flash		Brass + Gold flash		Brass + Gold flash		Brass + Gold flash
Coupling nut type	Knurl round		Knurl round		Knurl round		Knurl round
M12 coupling nut material	Brass + Nickel plated		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		0.4 N*m
Rated voltage	60V AC/DC		60V AC/DC		60V AC/DC		60V AC/DC
Rated current	4A		4A		4A		4A
Temperature range	-40°C + 90°C		-40°C + 90°C		-40°C + 90°C		-40°C + 90°C
O-ring material	NBR		NBR		NBR		NBR
Suitable cable	ø 4 - 6mm		ø cable 4-8mm ø cable 6.5-9.5mm Double exit ø6mm(max.)		ø 4 - 9mm		ø 4 - 8mm

Packaging

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

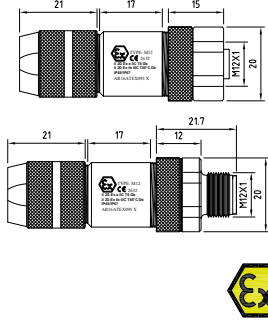
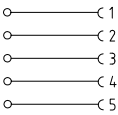
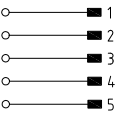
See accessories section

Notes:

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

M12 CIRCULAR CONNECTORS

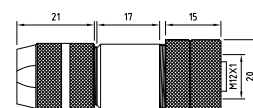
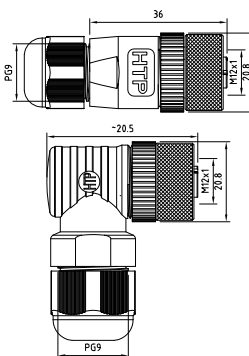
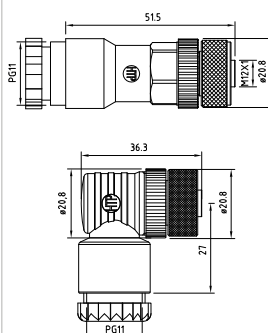
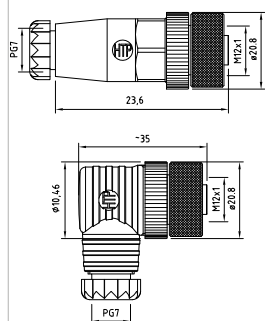
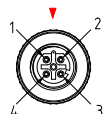
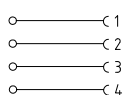


Technical drawing 			
 			
Product description			
Connector type	Circular connector field attachable	Circular connector field attachable	
Conforms to	IEC 61076-2-101	IEC 61076-2-101	
Construction type	M12 B-Coded	M12 B-Coded	
Part number	B-12F15000-ATEX	B-12M15000-ATEX	
Housing type	Straight 180°	Straight 180°	
Cable gland	PG9 standard	PG9 standard	
Description	Circular connector M12 series B-coded,ATEX conf.,field attachable	Circular connector M12 series B-coded,ATEX conf.,field attachable	
Contacts type	Female	Male	
Number of contacts	5poles	5poles	
Housing colour	Black	Black	
Technical data			
Type of termination	Screw contacts	Screw contacts	
Contact screw torque	0.2 N*m	0.2 N*m	
Housing material	Brass+Nickel plated	Brass+Nickel plated	
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	60V AC/DC	
Rated current	4A	4A	
Temperature range	-40°C +90°C	-40°C +90°C	
O-ring material	NBR	NBR	
Suitable cable	ø 4 - 8mm	ø 4 - 8mm	
Packaging			
Qty/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			

M12 CIRCULAR CONNECTORS



Technical drawing



Product description

Connector type	Circular connector field attachable		Circular connector field attachable		Circular connector field attachable		Circular connector field attachable
Conforms to	IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101
Construction type	M12 D-Coded		M12 D-Coded		M12 D-Coded		M12 D-Coded
Part number	D-12FC4000	D-12FB4000	D-12FL4000	D-12FU4000	D-12FC4000-SK	D-12FB4000-SK	D-12F14000
Housing type	Straight 180° Angled 90°		Straight 180° Angled 90°		Straight 180° Angled 90°		Straight 180°
Cable gland	PG7 standard		PG9-11 unified /Double cable exit		SK model		PG9 standard
Description	Circular connector M12 series D-coded,field attachable		Circular connector M12 series D-coded,field attachable		Circular connector M12 series D-coded,field attachable		Circular connector M12 series D-coded,field attachable
Contacts type	Female		Female		Female		Female
Number of contacts	4poles		4poles		4poles		4poles
Housing colour	Black		Black		Black		Black

Technical data

Type of termination	Screw contacts		Screw contacts		Screw contacts		Screw contacts
Contact screw torque	0.2 N*m		0.2 N*m		0.2 N*m		0.2 N*m
Housing material	PA66 UL94-V2		PA66 UL94-V2		PA66 UL94-V2		Brass + Nickel plated
Contacts material	Brass + Gold flash		Brass + Gold flash		Brass + Gold flash		Brass + Gold flash
Coupling nut type	Knurl round		Knurl round		Knurl round		Knurl round
M12 coupling nut material	Brass + Nickel plated		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		0.4 N*m
Rated voltage	250V AC/DC		250V AC/DC		250V AC/DC		250V AC/DC
Rated current	4A		4A		4A		4A
Temperature range	-40°C + 90°C		-40°C + 90°C		-40°C + 90°C		-40°C + 90°C
O-ring material	NBR		NBR		NBR		NBR
Suitable cable	ø 4 - 6mm		ø cable 4-8mm ø cable 6.5-9.5mm Double exit ø6mm(max.)		ø 4 - 9mm		ø 4 - 8mm

Packaging

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

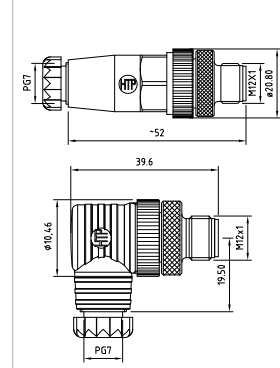
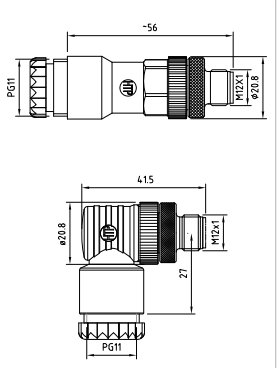
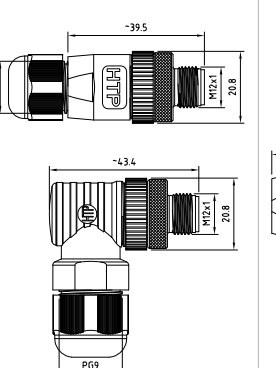
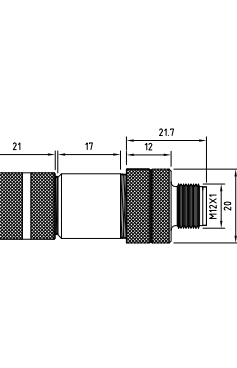
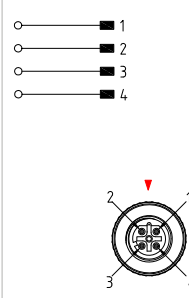
See accessories section

Notes:

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

M12 CIRCULAR CONNECTORS

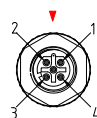
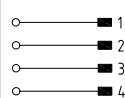
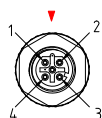
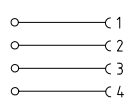
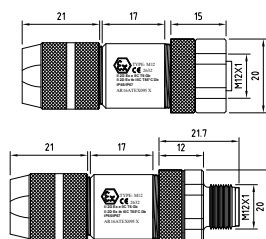


Technical drawing												
												
Product description												
Connector type	Circular connector field attachable			Circular connector field attachable			Circular connector field attachable			Circular connector field attachable		
Conforms to	IEC 61076-2-101			IEC 61076-2-101			IEC 61076-2-101			IEC 61076-2-101		
Construction type	M12 D-Coded			M12 D-Coded			M12 D-Coded			M12 D-Coded		
Part number	D-12MC4000 D-12MB4000			D-12ML4000 D-12MU4000			D-12MC4000-SK D-12MB4000-SK			D-12M14000		
Housing type	Straight 180° Angled 90°			Straight 180° Angled 90°			Straight 180° Angled 90°			Straight 180°		
Cable gland	PG7 standard			PG9-11 unified /Double cable exit			SK model			PG9 standard		
Description	Circular connector M12 series D-coded,field attachable			Circular connector M12 series D-coded,field attachable			Circular connector M12 series D-coded,field attachable			Circular connector M12 series D-coded,field attachable		
Contacts type	Male			Male			Male			Male		
Number of contacts	4poles			4poles			4poles			4poles		
Housing colour	Black			Black			Black			Black		
Technical data												
Type of termination	Screw contacts			Screw contacts			Screw contacts			Screw contacts		
Contact screw torque	0.2 N*m			0.2 N*m			0.2 N*m			0.2 N*m		
Housing material	PA66 UL94-V2			PA66 UL94-V2			PA66 UL94-V2			Brass + Nickel plated		
Contacts material	Brass + Gold flash			Brass + Gold flash			Brass + Gold flash			Brass + Gold flash		
Coupling nut type	Knurl round			Knurl round			Knurl round			Knurl round		
M12 coupling nut material	Brass + Nickel plated			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			0.4 N*m		
Rated voltage	250V AC/DC			250V AC/DC			250V AC/DC			250V AC/DC		
Rated current	4A			4A			4A			4A		
Temperature range	-40°C + 90°C			-40°C + 90°C			-40°C + 90°C			-40°C + 90°C		
O-ring material	NBR			NBR			NBR			NBR		
Suitable cable	ø 4 - 6mm			ø cable 4-8mm ø cable 6.5-9.5mm Double exit ø6mm(max.)			ø 4 - 9mm			ø 4 - 8mm		
Packaging												
Qty/Bag	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												

M12 CIRCULAR CONNECTORS



Technical drawing



Product description

Connector type	Circular connector field attachable	Circular connector field attachable	
Conforms to	IEC 61076-2-101	IEC 61076-2-101	
Construction type	M12 D-Coded	M12 D-Coded	
Part number	D-12F14000-ATEX	D-12M14000-ATEX	
Housing type	Straight 180°	Straight 180°	
Cable gland	PG9 standard	PG9 standard	
Description	Circular connector M12 series D-coded, ATEX conf., field attachable	Circular connector M12 series D-coded, ATEX conf., field attachable	
Contacts type	Female	Male	
Number of contacts	5poles	5poles	
Housing colour	Black	Black	

Technical data

Type of termination	Screw contacts	Screw contacts	
Contact screw torque	0.2 N*m	0.2 N*m	
Housing material	Brass + Nickel plated	Brass + Nickel plated	
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	250V AC/DC	250V AC/DC	
Rated current	4A	4A	
Temperature range	-40°C + 90°C	-40°C + 90°C	
O-ring material	NBR	NBR	
Suitable cable	ø 4 - 8mm	ø 4 - 8mm	

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

M12 CIRCULAR CONNECTORS

• GENERAL FEATURES OF MOULDED CONNECTORS:

Conductor cross section :
0.08(28AWG)...0.75mm²(18AWG).

Contact material and treatment :
Brass + Gold flash.

Protection class :
IP67/IP69K.

Fixing system :
M12 coupling nut.

Housing material :
Polyurethane.

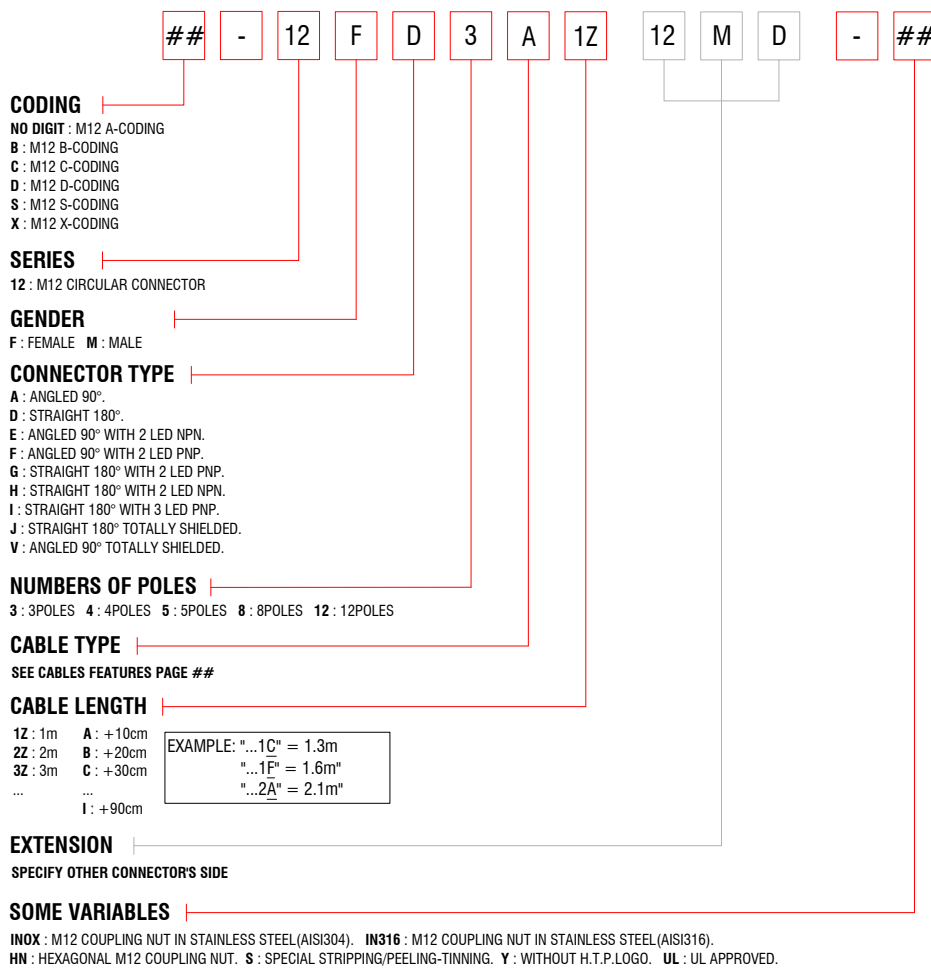
Operating temperature :
-25°C + 90°C.

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

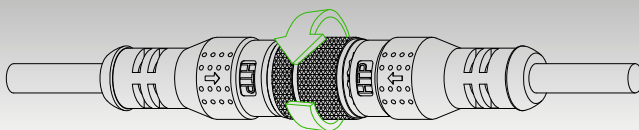
Internal core material :
PA66.

Type of terminations :
Crimped wires.
Solder wires (8 poles - 12 poles).

Coupling nut material :
Brass+Nickel plated.
Stainless steel AISI304(upon request).
Stainless steel AISI316(upon request).



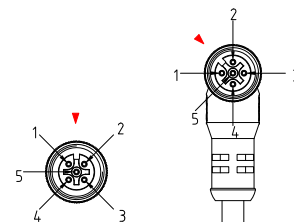
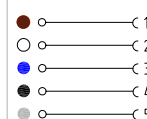
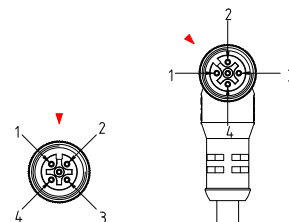
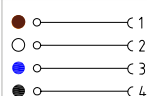
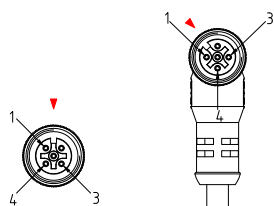
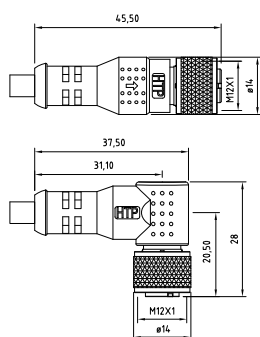
ANTI-VIBRATION SYSTEM:



M12 CIRCULAR CONNECTORS



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		IEC 61076-2-101		IEC 61076-2-101	
Construction type	M12 A-Coded		M12 A-Coded		M12 A-Coded	
Description	Circular connector M12 series with moulded cable		Circular connector M12 series with moulded cable		Circular connector M12 series with moulded cable	
Part number	12FD3B1Z	12FA3B1Z	12FD4B1Z	12FA4B1Z	12FD5B1Z	12FA5B1Z
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	

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	NBR	NBR
Cable type	PVC/PVC CEI2022	PVC/PVC CEI2022	PVC/PVC CEI2022
Cable jacket colour	Black	Black	Black
No. Conductors / Section	3x0.34mm ²	4x0.34mm ²	5x0.34mm ²
Conductor colours	Brown; Blue; Black	Brown; White; Blue; Black	Brown; White; Blue; Black; Grey
Cable diameter	Ø4.8mm (±0.3)	Ø5.2mm (±0.3)	Ø5.5mm (±0.3)
Cable length	1m	1m	1m

Packaging

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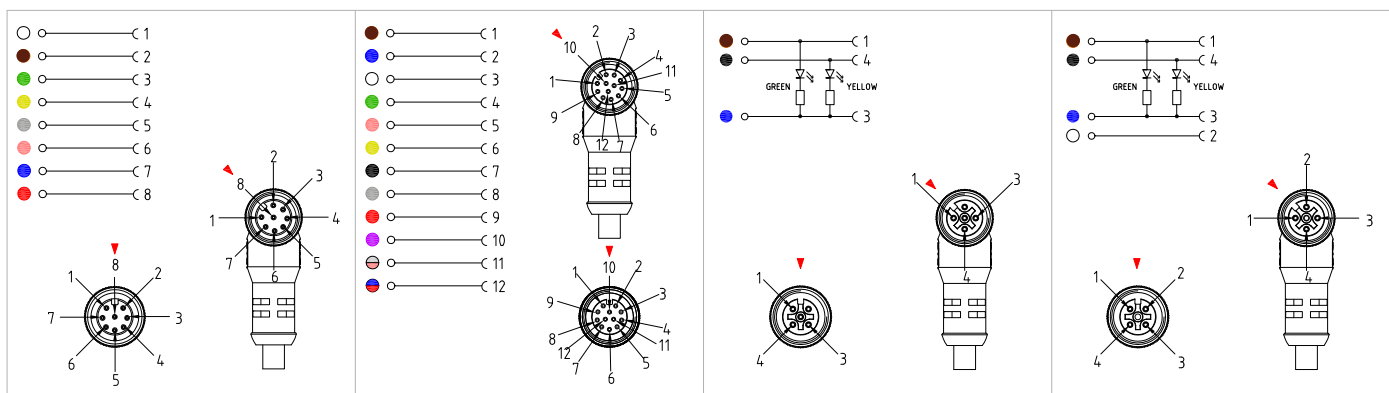
Other accessories options

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



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		IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101	
M12 A-Coded		M12 A-Coded		M12 A-Coded		M12 A-Coded	
Circular connector M12 series with moulded cable		Circular connector M12 series with moulded cable		Circular connector M12 series n.2 Led PNP circuit (PIN1: GN;PIN4:YE)with moulded cable		Circular connector M12 series n.2 Led PNP circuit (PIN1: GN;PIN4:YE)with moulded cable	
12FD8A1Z	12FA8A1Z	12FD12K1Z	12FA12K1Z	12FG3B1Z	12FF3B1Z	12FG4B1Z	12FF4B1Z
Straight 180°	Angled 90°	Straight 180°	Angled 90°	Straight 180°	Angled 90°	Straight 180°	Angled 90°
Moulded cable		Moulded cable		Moulded cable		Moulded cable	
Female		Female		Female		Female	
8poles		12poles		3poles		4poles	
Black		Black		Transparent		Transparent	

Technical data

Contacts to solder wires		Contacts to solder wires		Contacts to solder PCB		Contacts to solder PCB	
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		30V AC/DC		10-30V DC		10-30V DC	
2A		1.5A		3A		3A	
NBR		NBR		NBR		NBR	
PVC/PVC CEI2022		PVC/PVC CEI2022		PVC/PVC CEI2022		PVC/PVC CEI2022	
Black		Black		Black		Black	
8x0.25mm ²		12x0.14mm ²		3x0.34mm ²		4x0.34mm ²	
White;Brown;Green;Yellow;Grey;Pink;Blue;Red		Bn;Bu;Wh;Gn;Pk;Ye;Bk;Gy;Rd;Vt;Pk;Gy;Rd;Bu		Brown; Blue; Black		Brown; White; Blue; Black;	
ø6mm (±0.3)		ø6.5mm (±0.3)		ø4.8mm (±0.3)		ø5.2mm (±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

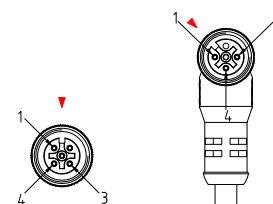
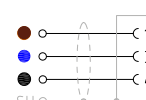
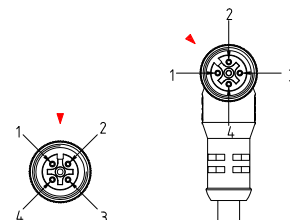
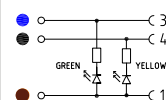
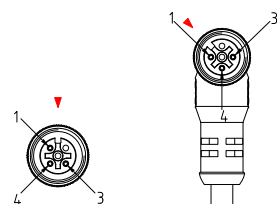
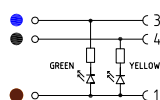
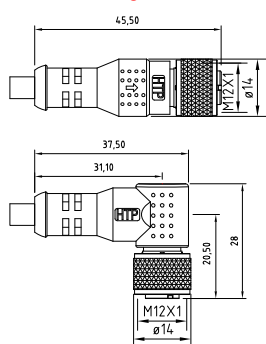
Notes:

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

M12 CIRCULAR CONNECTORS



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		IEC 61076-2-101		IEC 61076-2-101	
Construction type	M12 A-Coded		M12 A-Coded		M12 A-Coded	
Description	Circular connector M12 series n.2 Led NPN circuit (PIN3: GN;PIN4:YE)with moulded cable		Circular connector M12 series n.2 Led NPN circuit (PIN3: GN;PIN4:YE)with moulded cable		Circular connector M12 series TOTALLY SHIELDED with moulded cable	
Part number	12FH3B1Z	12FE3B1Z	12FH4B1Z	12FE4B1Z	12FJ3F1Z	12FV3F1Z
Housing type	Straight 180°		Straight 180°		Straight 180°	
	Angled 90°		Angled 90°		Angled 90°	
Cable gland	Moulded cable		Moulded cable		Moulded cable	
Contacts type	Female		Female		Female	
Number of contacts	3poles		4poles		3poles	
Housing colour	Transparent		Transparent		Black	

Technical data

Type of termination	Contacts to solder PCB		Contacts to solder PCB		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	10-30V DC		10-30V DC		250V AC/DC	
Rated current	3A		3A		4A	
O-ring material	NBR		NBR		NBR	
Cable type	PVC/PVC CEI2022		PVC/PVC CEI2022		PVC/PVC CEI2022 SHIELDED	
Cable jacket colour	Black		Black		Black	
No.Conductors / Section	3x0.34mm ²		4x0.34mm ²		3x0.34mm ²	
Conductor colours	Brown; Blue; Black		Brown; White; Blue; Black		Brown; Blue; Black	
Cable diameter	Ø4.8mm (±0.3)		Ø5.2mm (±0.3)		Ø5.2mm (±0.3)	
Cable length	1m		1m		1m	

Packaging

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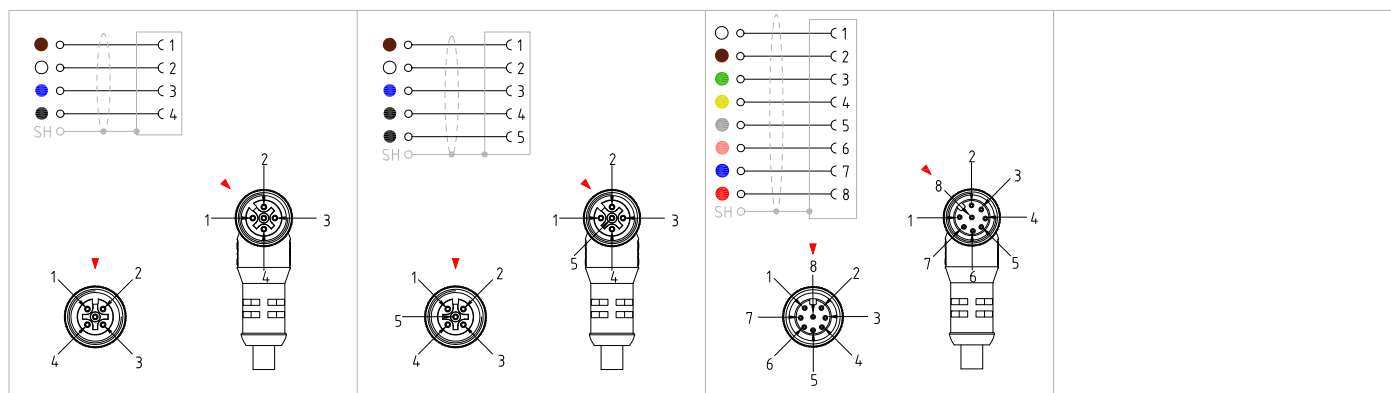
Other accessories options

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



Product description

Circular connector with moulded cable		Circular connector with moulded cable		Circular connector with moulded cable	
IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101	
M12 A-Coded		M12 A-Coded		M12 A-Coded	
Circular connector M12 series TOTALLY SHIELDED with moulded cable		Circular connector M12 series TOTALLY SHIELDED with moulded cable		Circular connector M12 series with moulded cable	
12FJ4F1Z	12FV4F1Z	12FJ5F1Z	12FV5F1Z	12FJ8J1Z	12FV8J1Z
Straight 180°	Angled 90°	Straight 180°	Angled 90°	Straight 180°	Angled 90°
Moulded cable		Moulded cable		Moulded cable	
Female		Female		Female	
4poles		5poles		8poles	
Black		Black		Black	

Technical data

Contacts to crimp wires		Contacts to crimp wires		Contacts to solder 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	
250V AC/DC		60V AC/DC		30V AC/DC	
4A		4A		2A	
NBR		NBR		NBR	
PVC/PVC CEI2022 SHIELDED		PVC/PVC CEI2022 SHIELDED		PVC/PVC CEI2022 SHIELDED	
Black		Black		Black	
4x0.34mm ²		5x0.34mm ²		8x0.25mm ²	
Brown; White; Blue; Black		Brown; White; Blue; Black; Grey		White; Brown; Green; Yellow; Grey; Pink; Blue; Red	
ø5.5mm (±0.3)		ø6mm (±0.3)		ø6.5mm (±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

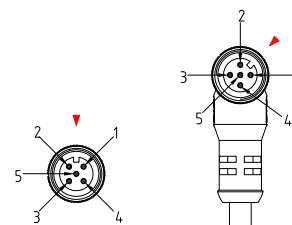
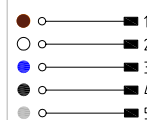
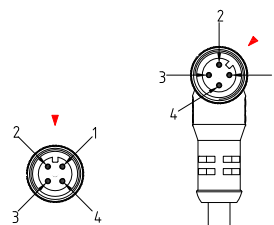
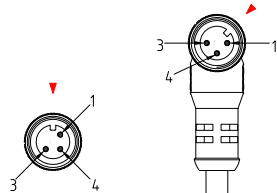
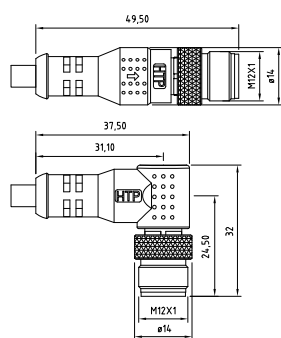
Notes:

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

M12 CIRCULAR CONNECTORS



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		IEC 61076-2-101		IEC 61076-2-101	
Construction type	M12 A-Coded		M12 A-Coded		M12 A-Coded	
Description	Circular connector M12 series with moulded cable		Circular connector M12 series with moulded cable		Circular connector M12 series with moulded cable	
Part number	12MD3B1Z	12MA3B1Z	12MD4B1Z	12MA4B1Z	12MD5B1Z	12MA5B1Z
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	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 CEI2022		PVC/PVC CEI2022		PVC/PVC CEI2022	
Cable jacket colour	Black		Black		Black	
No. Conductors / Section	3x0.34mm ²		4x0.34mm ²		5x0.34mm ²	
Conductor colours	Brown; Blue; Black		Brown; White; Blue; Black		Brown; White; Blue; Black; Grey	
Cable diameter	ø4.8mm (±0.3)		ø5.2mm (±0.3)		ø5.5mm (±0.3)	
Cable length	1m		1m		1m	

Packaging

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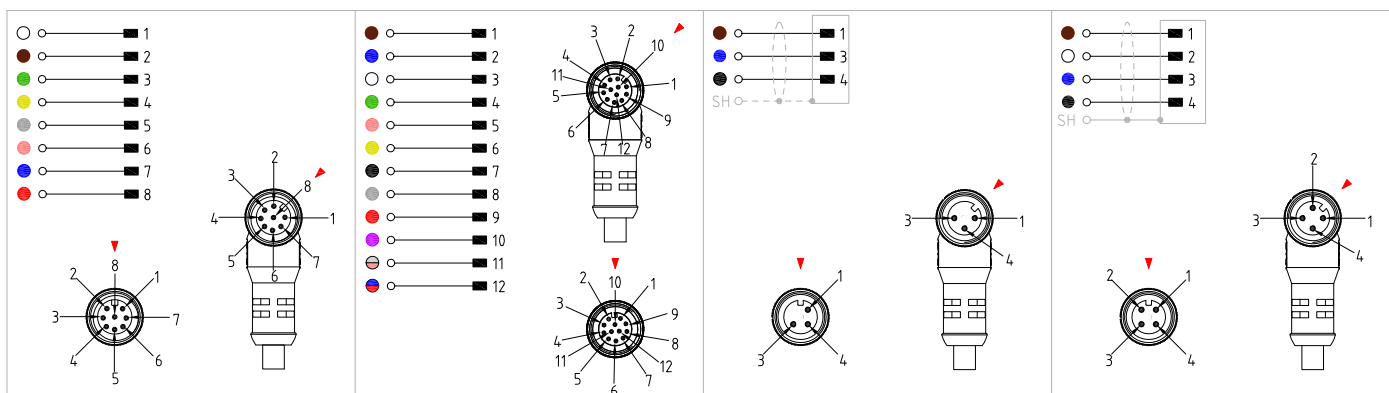
Other accessories options

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



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		IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101	
M12 A-Coded		M12 A-Coded		M12 A-Coded		M12 A-Coded	
Circular connector M12 series with moulded cable		Circular connector M12 series with moulded cable		Circular connector M12 series TOTALLY SHIELDED with moulded cable		Circular connector M12 series TOTALLY SHIELDED with moulded cable	
12MD8A1Z	12MA8A1Z	12MD12K1Z	12MA12K1Z	12MJ3F1Z	12MV3F1Z	12MJ4F1Z	12MV4F1Z
Straight 180°	Angled 90°	Straight 180°	Angled 90°	Straight 180°	Angled 90°	Straight 180°	Angled 90°
Moulded cable		Moulded cable		Moulded cable		Moulded cable	
Male		Male		Male		Male	
8poles		12poles		3poles		4poles	
Black		Black		Black		Black	

Technical data

Contacts to solder wires		Contacts to solder 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		30V AC/DC		250V AC/DC		250V AC/DC	
2A		1.5A		4A		4A	
-		-		-		-	
PVC/PVC CEI2022		PVC/PVC CEI2022		PVC/PVC CEI2022 SHIELDED		PVC/PVC CEI2022 SHIELDED	
Black		Black		Black		Black	
8x0.25mm ²		12x0.14mm ²		3x0.34mm ²		4x0.34mm ²	
White;Brown;Green;Yellow;Grey;Pink;Blue;Red		Bn;Bu;Wh;Gn;Pk;Ye;Bk;Gy;Rd;Vt;Pk;Gy;Rd;Bu		Brown; Blue; Black		Brown; White; Blue; Black	
ø6mm (±0.3)		ø6.5mm (±0.3)		ø5.2mm (±0.3)		ø5.5mm (±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

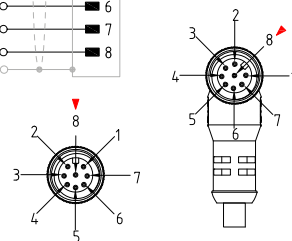
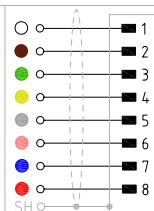
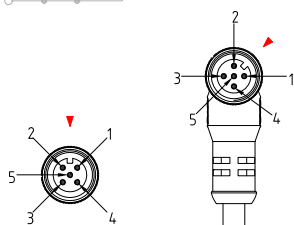
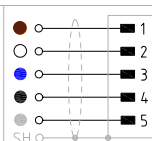
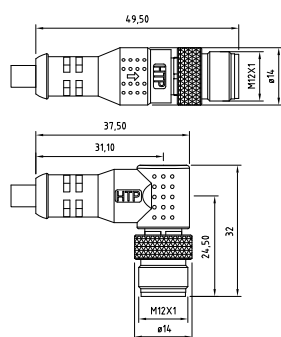
Notes:

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

M12 CIRCULAR CONNECTORS



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 A-Coded		M12 A-Coded	
Description	Circular connector M12 series TOTALLY SHIELDED with moulded cable		Circular connector M12 series TOTALLY SHIELDED with moulded cable	
Part number	12MJ5F1Z	12MV5F1Z	12MJ8J1Z	12MV8J1Z
Housing type	Straight 180°	Angled 90°	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 CEI2022 SHIELDED		PVC/PVC CEI2022 SHIELDED	
Cable jacket colour	Black		Black	
No. Conductors / Section	5x0.34mm ²		8x0.25mm ²	
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 length	1m		1m	

Packaging

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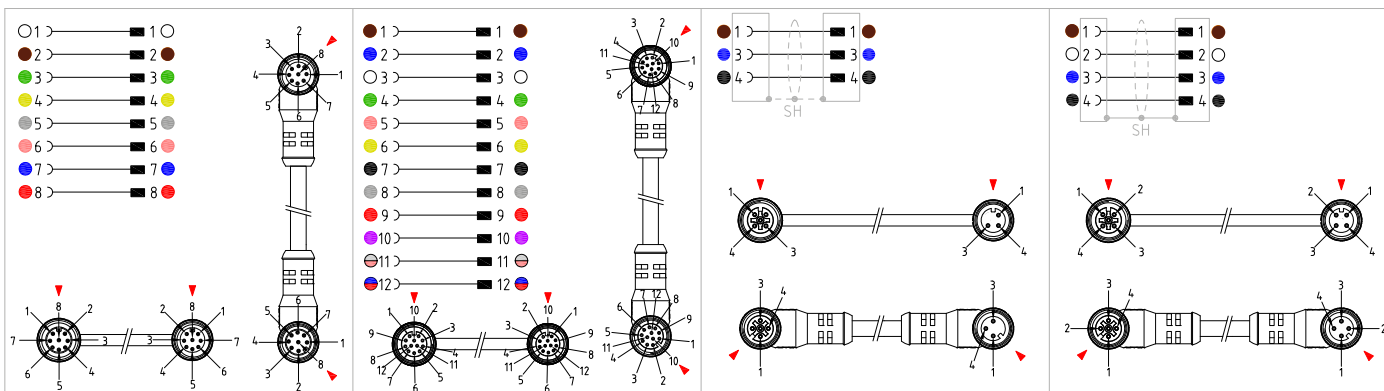
Other accessories options

See accessories section

Notes:

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

M12 CIRCULAR CONNECTORS



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		IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101	
M12 A-Coded		M12 A-Coded		M12 A-Coded		M12 A-Coded	
Extension M12-M12 connectors with moulded cable		Extension M12-M12 connectors with moulded cable		Extension M12-M12 connectors TOTALLY SHIELDED with moulded cable		Extension M12-M12 connectors TOTALLY SHIELDED with moulded cable	
12FD8A1Z12MD	12FA8A1Z12MA	12FD12K1Z12MD	12FA12K1Z12MA	12FJ3F1Z12MJ	12FV3F1Z12MV	12FJ4F1Z12MJ	12FV4F1Z12MV
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		12poles		3poles		4poles	
Black		Black		Black		Black	

Technical data

Contacts to solder wires	Contacts to solder 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	30V AC/DC	250V AC/DC	250V AC/DC
2A	1.5A	4A	4A
NBR (on female connector)	NBR (on female connector)	NBR (on female connector)	NBR (on female connector)
PVC/PVC CEI2022	PVC/PVC CEI2022	PVC/PVC CEI2022 SHIELDED	PVC/PVC CEI2022
Black	Black	Black	Black
8x0.25mm ²	12x0.14mm ²	3x0.34mm ²	4x0.34mm ²
White; Brown; Green; Yellow; Grey; Pink; Blue; Red	Bn; Bu; Wh; Gn; Pk; Ye; Bk; Gy; Rd; Vt; Pk; Gy; Rd; Bu	Brown; Blue; Black	Brown; White; Blue; Black
ø6mm (±0.3)	ø6.5mm (±0.3)	ø5.2mm (±0.3)	ø5.5mm (±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

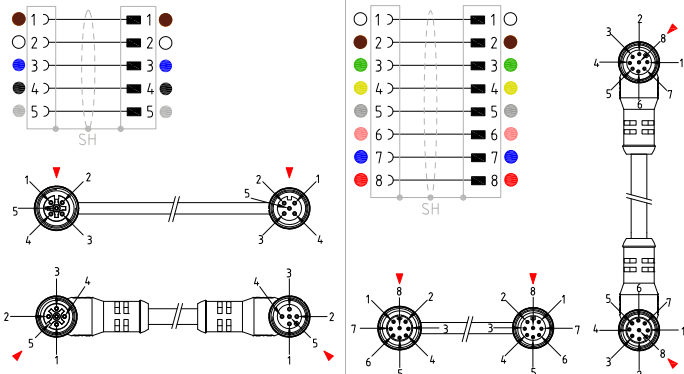
See accessories section

Notes:

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

M12 CIRCULAR CONNECTORS



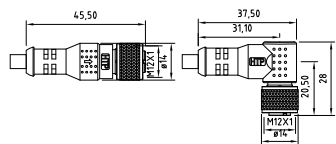
Technical drawing			
Product description			
Connector type	Circular connector with moulded cable		Circular connector with moulded cable
Conforms to	IEC 61076-2-101		IEC 61076-2-101
Construction type	M12 A-Coded		M12 A-Coded
Description	Extension M12-M12 connectors TOTALLY SHIELDED with moulded cable		Extension M12-M12 connectors TOTALLY SHIELDED with moulded cable
Part number	12FJ5F1Z12MJ	12FV5F1Z12MV	12FJ8J1Z12MJ 12FV8J1Z12MV
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
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	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
Packaging			
Qty/Bag	1 pc / bag		1 pc / bag
Other accessories options			
See accessories section			
Notes: Connectors available with different feautres: See the general features and codification scheme page See the cables list section			

M12 CIRCULAR CONNECTORS

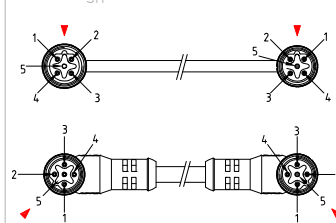
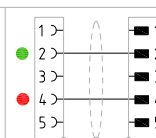
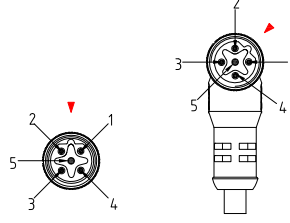
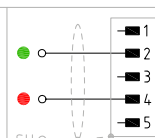
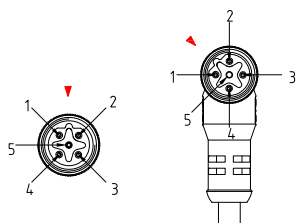
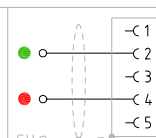
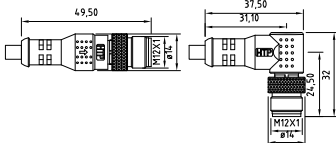


Technical drawing

Female



Male



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 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-12FJ5T1Z-K6-IS	B-12FV5T1Z-K6-IS	B-12MJ5T1Z-K6-IS	B-12MV5T1Z-K6-IS	B-12FJ5T1Z12MJ-K6-IS	B-12FV5T1Z12MV-K6-IS
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	

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	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(0.25mm ²)		1x2xAWG24(0.25mm ²)		1x2xAWG24(0.25mm ²)	
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	

Packaging

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

See accessories section

Notes:

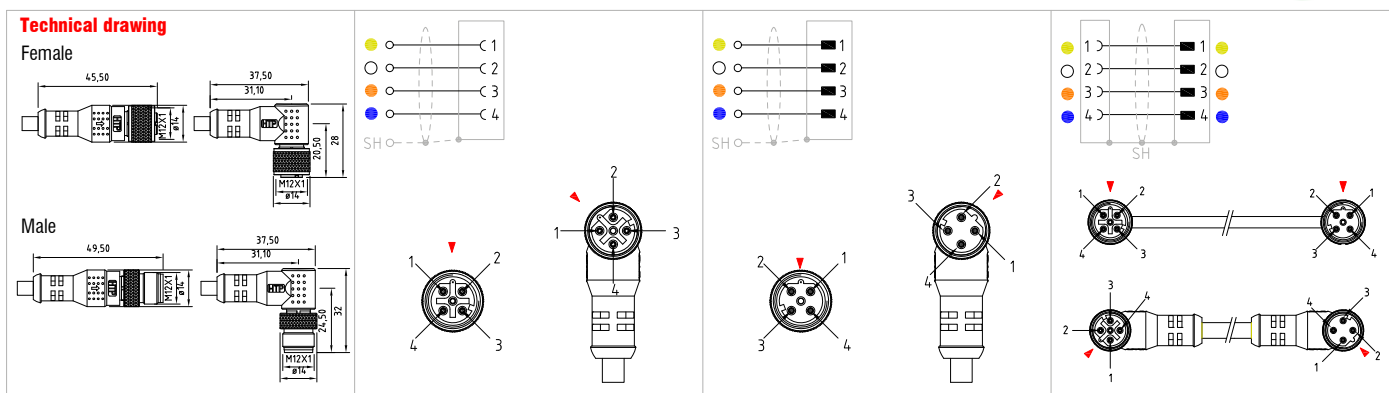
Connectors available with different features:
See the general features and codification scheme page
See the cables list section

M12 CIRCULAR CONNECTORS



Technical drawing					

M12 CIRCULAR CONNECTORS



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	D-12FJ4401Z-K6-IS	D-12FV4401Z-K6-IS	D-12MJ4401Z-K6-IS	D-12MV4401Z-K6-IS	D-12MJ4401Z12FJ-K6-IS	D-12MV4401Z12FV-K6-IS
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 ²)		1x4xAWG22(0.34mm ²)		1x4xAWG22(0.34mm ²)	
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

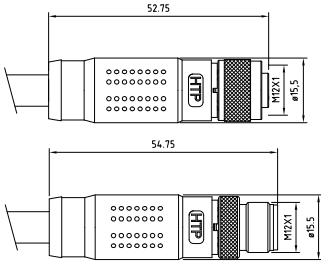
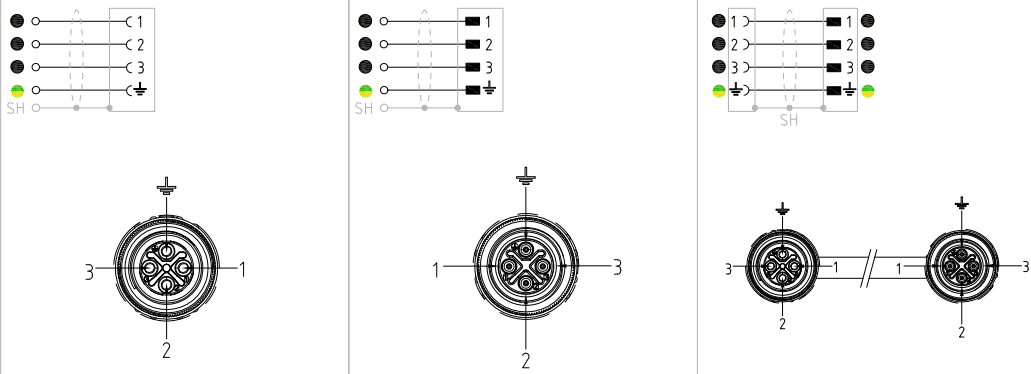
See accessories section

Note:

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

M12 CIRCULAR CONNECTORS

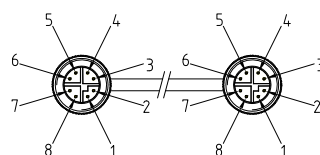
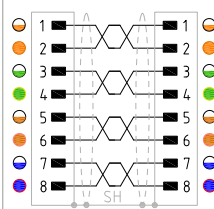
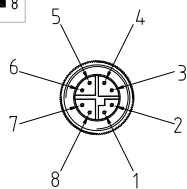
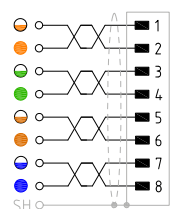
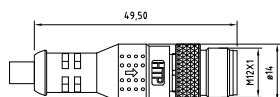


Technical drawing 			
			
Product description			
Connector type	Circular connector with moulded cable	Circular connector with moulded cable	Circular connector with moulded cable
Conforms to	IEC 61076-2-101	IEC 61076-2-101	IEC 61076-2-101
Construction type	M12 S-Coded	M12 S-Coded	M12 S-Coded
Description	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	S-12FJ4811Z-K6-IS	S-12MJ4811Z-K6-IS	S-12FJ4811Z12MJ-K6IS
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 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	PUR/TPO ULStyle20234 high flex SHIELDED	PUR/TPO ULStyle20234 high flex SHIELDED	PUR/TPO ULStyle20234 high flex SHIELDED
Cable jacket colour	Orange RAL2003	Orange RAL2003	Orange RAL2003
No. Conductors / Section	4x1.5mm ²	4x1.5mm ²	4x1.5mm ²
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
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



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	X-12MJ8711Z-K6-IS	X-12MJ871Z12MJ-K6-IS	
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 ²)	4x2xAWG26(0.14mm ²)	
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

M12 CIRCULAR CONNECTORS

• GENERAL FEATURES PANEL MOUNT CONNECTORS:

Conductor cross section :
0.14(26AWG)...0.50mm²(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

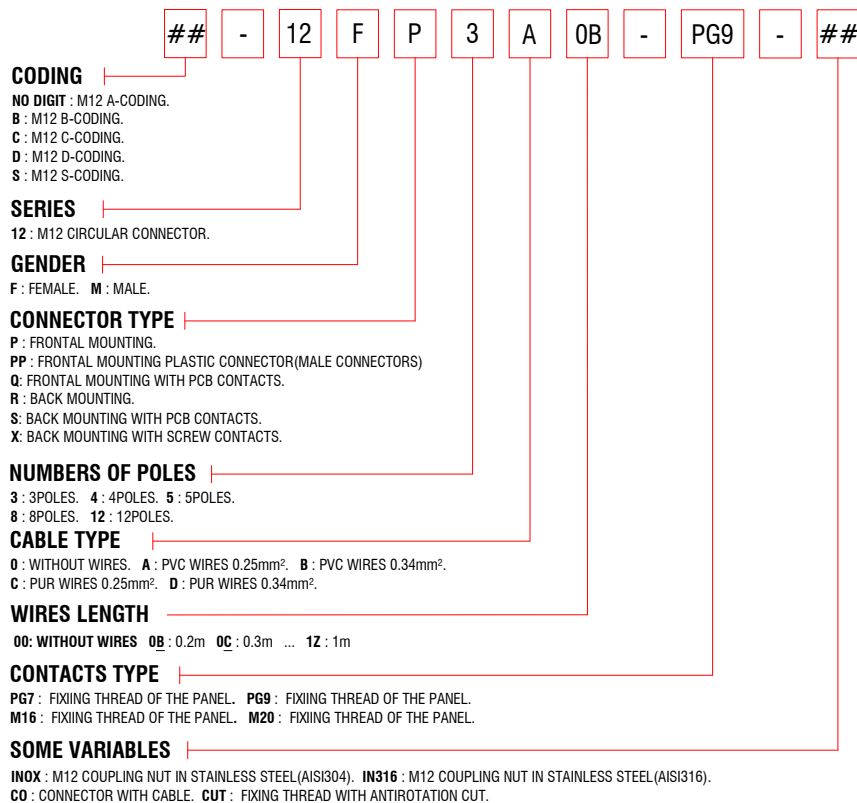
Fixing system :
M12 coupling nut.

Contact material and treatment :
Brass + Gold flash.

Flammability resistance :
UL94-V2 - Standard.

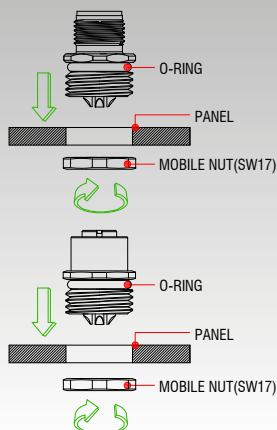
Max. screw torque IEC60947-1
M12 coupling nut torque 0.4N*m.

Protection class :
IP 67 (assembled).



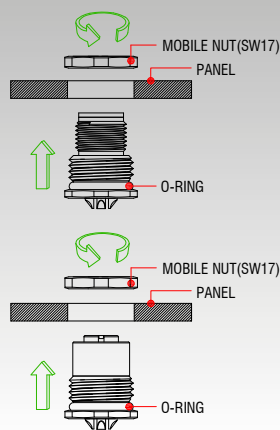
FRONT MOUNTING:

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:

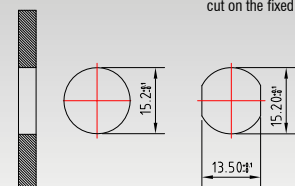
The type of mounting of the panel connector into the panel is defined with reference to the way the connector is mounted into the panel. In back mounting the mobile nut is in the front side towards the panel.



PANEL FEATURES:

Suitable for standard connector.

* Suitable for connector with cut on the fixed thread.

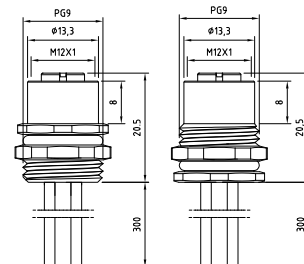
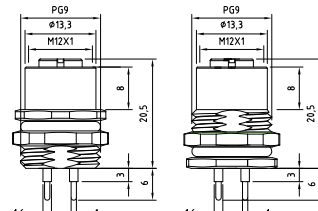
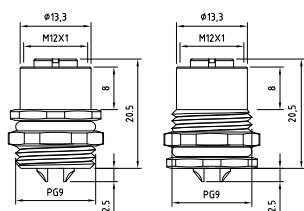
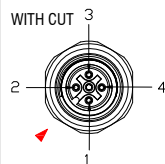
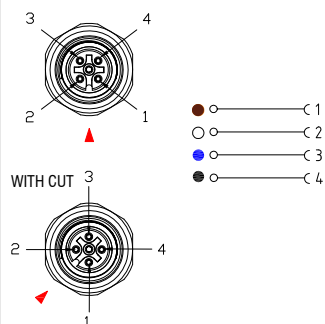


M12 CIRCULAR CONNECTORS



Technical drawing

STD.



Product description

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	12FP4000-PG9	12FR4000-PG9	12FQ4000-PG9-CUT	12FS4000-PG9-CUT	12FP4A0C-PG9	12FR4A0C-PG9
Housing type	Frontal panel side	Back panel side	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		-	

Technical data

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 ²	
Conductor colours	-		-		Brown; White; Blue; Black	
Cable diameter	-		-		-	
Cable length	-		-		0.3m	

Packaging

Qty/Bag	Not defined	Not defined	Not defined
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Other accessories options

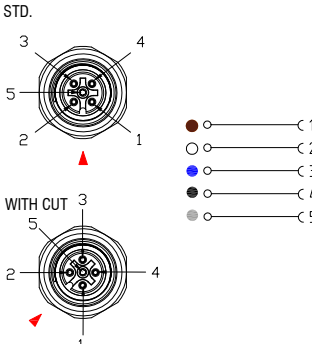
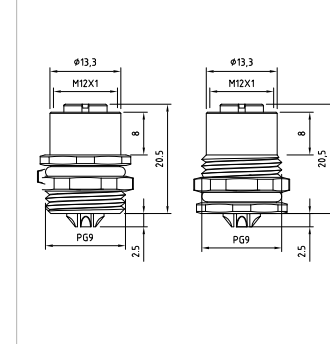
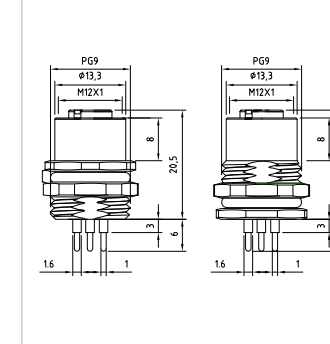
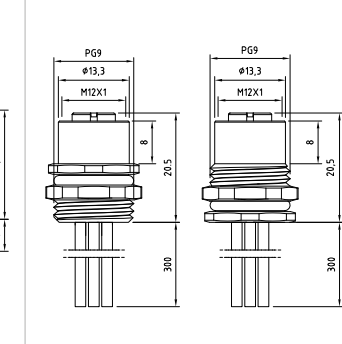
See accessories section

Notes:

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

M12 CIRCULAR CONNECTORS



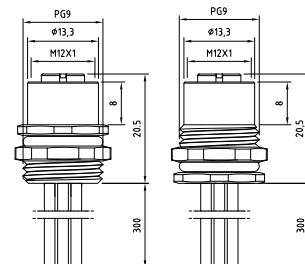
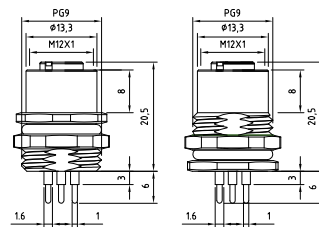
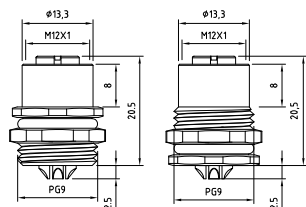
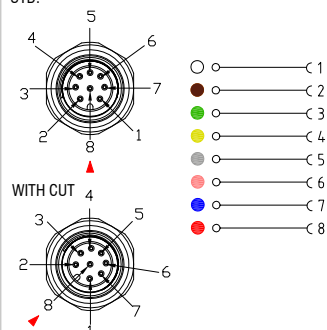
Technical drawing							
							
Product description							
Connector type		Circular connector panel mount		Circular connector panel mount		Circular connector panel mount	
Conforms to		IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101	
Construction type		M12 A-Coded		M12 A-Coded		M12 A-Coded	
Description		Circular connector M12 series,panel mount		Circular connector M12 series,panel mount, with contacts suitable for solder PCB.		Circular connector M12 series,panel mount, with PVC soldered wires.	
Part number		12FP5000-PG9	12FR5000-PG9	12FQ5000-PG9-CUT	12FS5000-PG9-CUT	12FP5A0C-PG9	12FR5A0C-PG9
Housing type		Frontal panel side	Back panel side	Frontal panel side	Back panel side	Frontal panel side	Back panel side
Contacts type		Female		Female		Female	
Number of contacts		5poles		5poles		5poles	
Fixing thread		PG9		PG9 + CUT		PG9	
Cut size		-		13.3mm		-	
Technical data							
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	
Coupling nut type		Brass + Nickel plated		Brass + Nickel plated		Brass + Nickel plated	
Housing material		Brass + Nickel plated (SW17)		Brass + Nickel plated (SW17)		Brass + Nickel plated (SW17)	
Mobile nut material		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		NBR	
Cable type		-		-		PVC	
No. Conductors / Section		-		-		5 x 0.25mm²	
Conductor colours		-		-		Brown; White; Blue; Black;Grey	
Cable diameter		-		-		-	
Cable length		-		-		0.3m	
Packaging							
Qty/Bag		Not defined		Not defined		Not defined	
Other accessories options							
See accessories section							
Notes: Connectors available with different feautres: See the general features and codification scheme page See the cables list section							

M12 CIRCULAR CONNECTORS



Technical drawing

STD.



Product description

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, panel mount with PVC soldered wires.
Part number	12FP8000-PG9	12FR8000-PG9	12FQ8000-PG9-CUT	12FS8000-PG9-CUT
Housing type	Frontal panel side	Back panel side	Frontal panel side	Back panel side
Contacts type	Female		Female	Female
Number of contacts	8poles		8poles	8poles
Fixing thread	PG9		PG9 + CUT	PG9
Cut size	-		13.3mm	-

Technical data

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	30V AC/DC	30V AC/DC	30V AC/DC
Rated current	2A	2A	2A
O-ring material	NBR	NBR	NBR
Cable type	-	-	PVC
No. Conductors / Section	-	-	8 x 0.25mm ²
Conductor colours	-	-	White; Brown; Green; Yellow; Grey; Pink; Blue; Red
Cable diameter	-	-	-
Cable length	-	-	0.3m

Packaging

Qty/Bag	Not defined	Not defined	Not defined
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Other accessories options

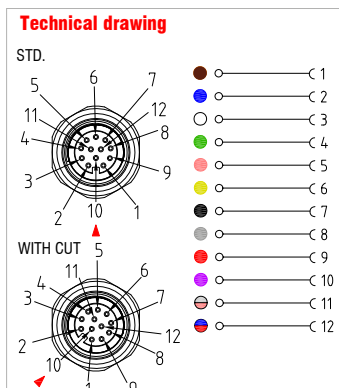
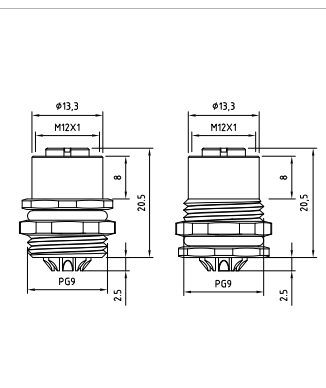
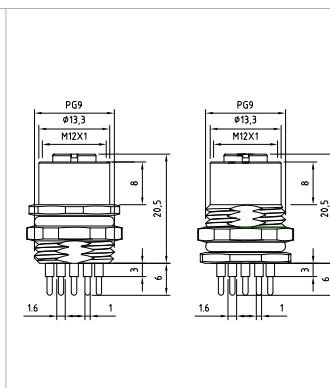
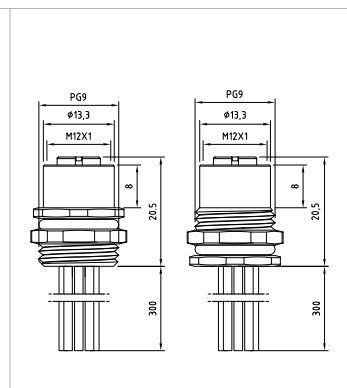
See accessories section

Notes:

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

M12 CIRCULAR CONNECTORS



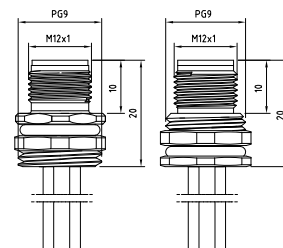
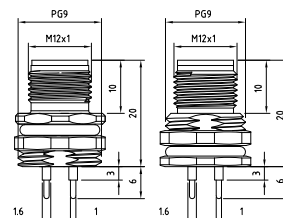
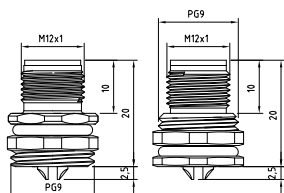
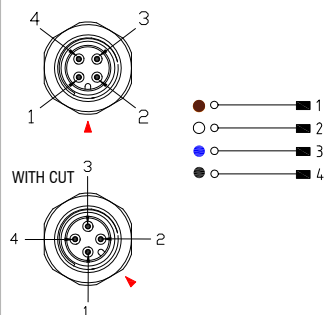
Technical drawing							
							
Product description							
Connector type		Circular connector panel mount		Circular connector panel mount		Circular connector panel mount	
Conforms to		IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101	
Construction type		M12 A-Coded		M12 A-Coded		M12 A-Coded	
Description		Circular connector M12 series,panel mount		Circular connector M12 series to panel mount with contacts suitable for solder PCB.		Circular connector M12 series,panel mount with PVC soldered wires.	
Part number		12FP12000-PG9	12FR12000-PG9	12FQ12000-PG9-CUT	12FS12000-PG9-CUT	12FP12K0C-PG9	12FR12K0C-PG9
Housing type		Frontal panel side	Back panel side	Frontal panel side	Back panel side	Frontal panel side	Back panel side
Contacts type		Female		Female		Female	
Number of contacts		12poles		12poles		12poles	
Fixing thread		PG9		PG9 + CUT		PG9	
Cut size		-		13.3mm		-	
Technical data							
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		30V AC / DC		30V AC / DC		30V AC / DC	
Rated current		1,5A		1,5A		1,5A	
O-ring material		NBR		NBR		NBR	
Cable type		-		-		PVC	
No. Conductors / Section		-		-		12 x 0.14mm²	
Conductor colours		-		-		Bn;Bu;Wh;Gn;Pk;Ye;Bk;Gy;Rd;Vt;Pk;Gy;Rd;Bu	
Cable diameter		-		-		-	
Cable length		-		-		0.3m	
Packaging							
Qty/Bag		Not defined		Not defined		Not defined	
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



Technical drawing

STD.



Product description

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, panel mount with PVC soldered wires.	
Part number	12MP4000-PG9	12MR4000-PG9	12MQ4000-PG9-CUT	12MS4000-PG9-CUT	12MP4A0C-PG9	12MR4A0C-PG9
Housing type	Frontal panel side	Back panel side	Frontal panel side	Back panel side	Frontal panel side	Back panel side
Contacts type	Male		Male		Male	
Number of contacts	4poles		4poles		4poles	
Fixing thread	PG9		PG9 + CUT		PG9	
Cut size	-		13.3mm		-	

Technical data

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 ²	
Conductor colours	-		-		Brown; White; Blue; Black	
Cable diameter	-		-		-	
Cable length	-		-		0.3m	

Packaging

Qty/Bag	Not defined	Not defined	Not defined
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Other accessories options

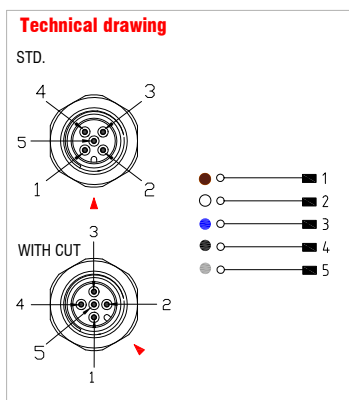
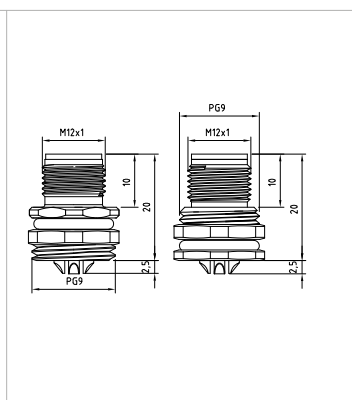
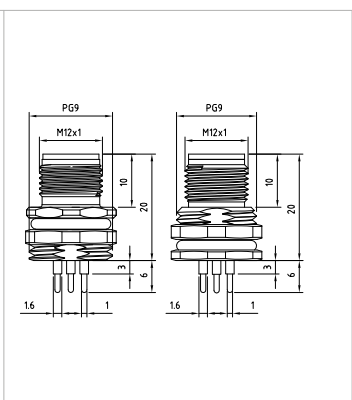
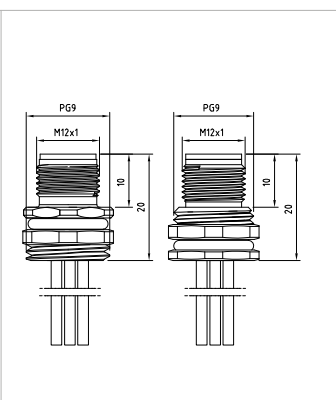
See accessories section

Notes:

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

M12 CIRCULAR CONNECTORS



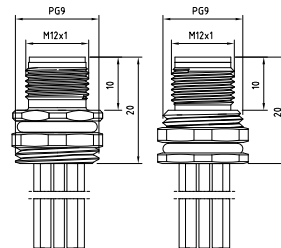
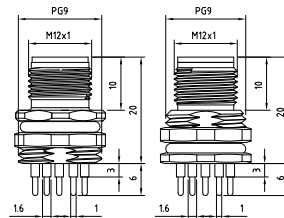
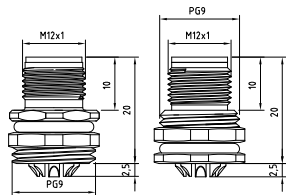
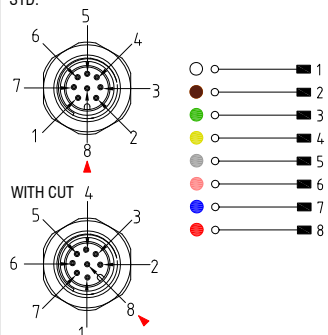
Technical drawing							
STD.							
							
Product description							
Connector type		Circular connector panel mount		Circular connector panel mount		Circular connector panel mount	
Conforms to		IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101	
Construction type		M12 A-Coded		M12 A-Coded		M12 A-Coded	
Description		Circular connector M12 series,panel mount		Circular connector M12 series to panel mount with contacts suitable for solder PCB.		Circular connector M12 series,panel mount with PVC soldered wires.	
Part number		12MP5000-PG9	12MR5000-PG9	12MQ5000-PG9-CUT	12MS5000-PG9-CUT	12MP5A0C-PG9	12MR5A0C-PG9
Housing type		Frontal panel side	Back panel side	Frontal panel side	Back panel side	Frontal panel side	Back panel side
Contacts type		Male		Male		Male	
Number of contacts		5poles		5poles		5poles	
Fixing thread		PG9		PG9 + CUT		PG9	
Cut size		-		13.3mm		-	
Technical data							
Type of termination		Contacts to solder wires		Contacts suitable for solder PCB		Contacts to solder wires	
Housing material		Brass + Gold flash		Brass + Gold flash		Brass + Gold flash	
Mobile nut material		Brass + Nickel plated		Brass + Nickel plated		Brass + Nickel plated	
M12 coupling 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		60V AC / DC		60V AC / DC		60V AC / DC	
Rated current		4A		4A		4A	
O-ring material		NBR		NBR		NBR	
Cable type		-		-		PVC	
No. Conductors / Section		-		-		5 x 0.25mm²	
Conductor colours		-		-		Brown; White; Blue; Black;Grey	
Cable diameter		-		-		-	
Cable length		-		-		0.3m	
Packaging							
Qty/Bag		Not defined		Not defined		Not defined	
Other accessories options							
See accessories section							
Notes: Connectors available with different feautres: See the general features and codification scheme page See the cables list section							

M12 CIRCULAR CONNECTORS



Technical drawing

STD.



Product description

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,panel mount with PVC soldered wires.	
Part number	12MP8000-PG9	12MR8000-PG9	12MQ8000-PG9-CUT	12MS8000-PG9-CUT	12MP8A0C-PG9	12MR8A0C-PG9
Housing type	Frontal panel side	Back panel side	Frontal panel side	Back panel side	Frontal panel side	Back panel side
Contacts type	Male		Male		Male	
Number of contacts	8poles		8poles		8poles	
Fixing thread	PG9		PG9 + CUT		PG9	
Cut size	-		13.3mm		-	

Technical data

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	30V AC/DC	30V AC/DC	30V AC/DC
Rated current	2A	2A	2A
O-ring material	NBR	NBR	NBR
Cable type	-	-	PVC
No.Conductors / Section	-	-	8 x 0.25mm ²
Conductor colours	-	-	White;Brown;Green;Yellow;Grey;Pink;Blue;Red
Cable diameter	-	-	-
Cable length	-	-	0.3m

Packaging

Qty/Bag	Not defined	Not defined	Not defined
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Other accessories options

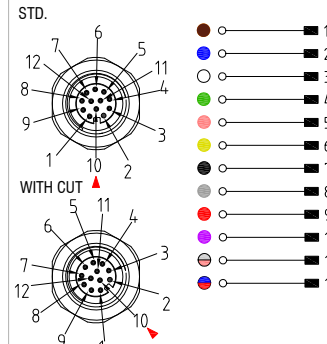
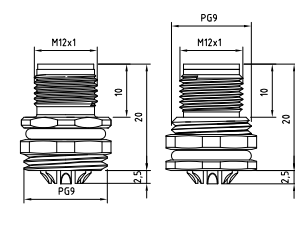
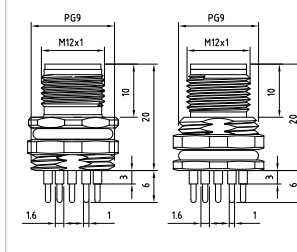
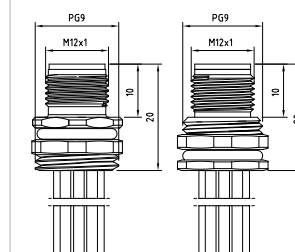
See accessories section

Notes:

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

M12 CIRCULAR CONNECTORS

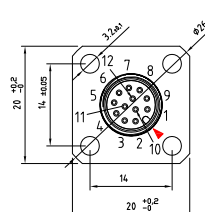
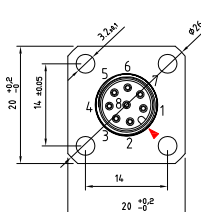
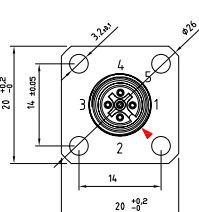
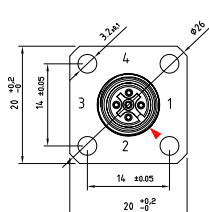
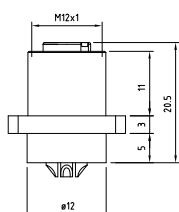


Technical drawing							
							
Product description							
Connector type		Circular connector panel mount		Circular connector panel mount		Circular connector panel mount	
Conforms to		IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101	
Construction type		M12 A-Coded		M12 A-Coded		M12 A-Coded	
Description		Circular connector M12 series,panel mount		Circular connector M12 series to panel mount with contacts suitable for solder PCB.		Circular connector M12 series,panel mount with PVC soldered wires.	
Part number		12MP12000-PG9	12MR12000-PG9	12MQ12000-PG9-CUT	12MS12000-PG9-CUT	12MP12K0C-PG9	12MR12K0C-PG9
Housing type		Frontal panel side	Back panel side	Frontal panel side	Back panel side	Frontal panel side	Back panel side
Contacts type		Male		Male		Male	
Number of contacts		12poles		12poles		12poles	
Fixing thread		PG9		PG9 + CUT		PG9	
Cut size		-		13.3mm		-	
Technical data							
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		30V AC / DC		30V AC / DC		30V AC / DC	
Rated current		1,5A		1,5A		1,5A	
O-ring material		NBR		NBR		NBR	
Cable type		-		-		PVC	
No. Conductors / Section		-		-		12 x 0.14mm²	
Conductor colours		-		-		Bn;Bu;Wh;Gn;Pk;Ye;Bk;Gy;Rd;Vt;Pk;Gy;Rd;Bu	
Cable diameter		-		-		-	
Cable length		-		-		0.3m	
Packaging							
Qty/Bag		Not defined		Not defined		Not defined	
Other accessories options							
See accessories section							
Notes: Connectors available with different feautres: See the general features and codification scheme page See the cables list section							

M12 CIRCULAR CONNECTORS



Technical drawing



Product description

Connector type	Circular connector panel mount	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	IEC 61076-2-101
Construction type	M12 A-Coded	M12 A-Coded	M12 A-Coded	M12 A-Coded
Description	Circular connector M12 series, panel mount with FLANGE	Circular connector M12 series, panel mount with FLANGE	Circular connector M12 series, panel mount with FLANGE	Circular connector M12 series, panel mount with FLANGE
Part number	12FP4000-FL	12FP5000-FL	12FP8000-FL	12FP12000-FL
Housing type	Frontal panel side	Frontal panel side	Frontal panel side	Frontal panel side
Contacts type	Female	Female	Female	Female
Number of contacts	4poles	5poles	8poles	12poles
Fixing thread	-	-	-	-
Cut size	-	-	-	-

Technical data

Type of termination	Contacts to solder wires	Contacts to solder wires	Contacts to solder wires	Contacts to solder wires
Contacts material	Brass + Gold flash	Brass + Gold flash	Brass + Gold flash	Brass + Gold flash
Housing material	Brass + Nickel plated	Brass + Nickel plated	Brass + Nickel plated	Brass + Nickel plated
Mobile nut material	-	-	-	-
M12 coupling nut torque	0.4 N*m	0.4 N*m	0.4 N*m	0.4 N*m
Rated voltage	250V AC/DC	60V AC/DC	30V AC/DC	30V AC/DC
Rated current	4A	4A	2A	1.5A
O-ring material	-	-	-	-
Cable type	-	-	-	-
No. Conductors / Section	-	-	-	-
Conductor colours	-	-	-	-
Cable diameter	-	-	-	-
Cable length	-	-	-	-

Packaging

Qty/Bag	Not defined	Not defined	Not defined	Not defined
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Other accessories options

See accessories section

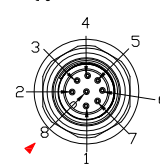
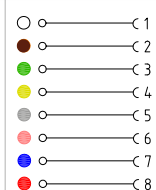
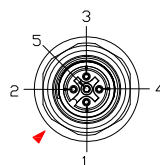
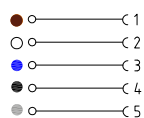
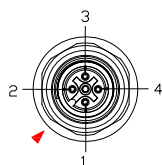
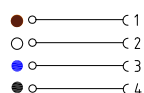
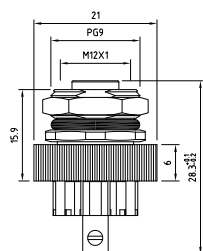
Notes:

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

M12 CIRCULAR CONNECTORS



Technical drawing



Product description

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, with screw contacts	Circular connector M12 series, panel mount, with screw contacts	Circular connector M12 series, panel mount, with screw contacts
Part number	12FX4000-PG9-CUT	12FX5000-PG9-CUT	12FX8000-PG9-CUT
Housing type	Back panel side	Back panel side	Back panel side
Contacts type	Female	Female	Female
Number of contacts	4poles	5poles	8poles
Fixing thread	PG9	PG9	PG9
Cut size	13.3mm	13.3mm	13.3mm

Technical data

Type of termination	Screw contacts	Screw contacts	Screw contacts
Contact screw torque	0.2 N*m	0.2 N*m	0.2 N*m
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	60V AC / DC	30V AC / DC
Rated current	4A	4A	2A
O-ring material	NBR	NBR	NBR
Conductors cross section	From 0.14(26AWG) to 0.50mm ² (20AWG)	From 0.14(26AWG) to 0.50mm ² (20AWG)	From 0.14(26AWG) to 0.50mm ² (20AWG)

Packaging

Qty/Bag	Not defined	Not defined	Not defined
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Other accessories options

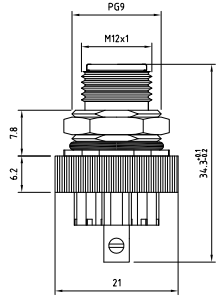
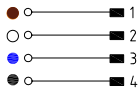
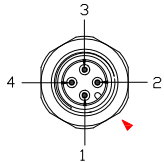
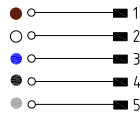
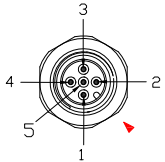
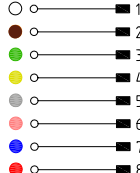
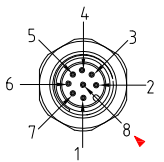
See accessories section

Notes:

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

M12 CIRCULAR CONNECTORS

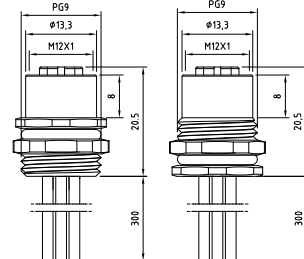
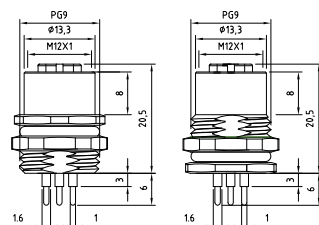
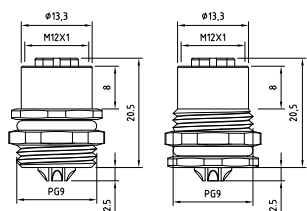
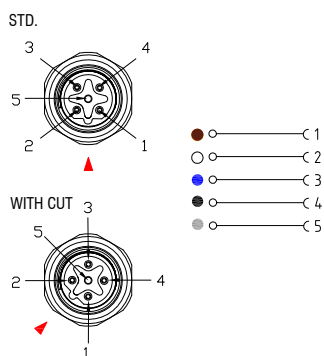


Technical drawing 	 	 	 
Product description			
Connector type	Circular connector panel mount	Circular connector panel mount	Circular connector panel mount
Conforms to	IEC 61076-2-101	IEC 61076-2-101	IEC 61076-2-101
Construction type	M12 A-Coded	M12 A-Coded	M12 A-Coded
Description	Circular connector M12 series, panel mount, with screw contacts	Circular connector M12 series, panel mount, with screw contacts	Circular connector M12 series, panel mount, with screw contacts
Part number	12MX4000-PG9-CUT	12MX5000-PG9-CUT	12MX8000-PG9-CUT
Housing type	Back panel side	Back panel side	Back panel side
Contacts type	Male	Male	Male
Number of contacts	4poles	5poles	8poles
Fixing thread	PG9	PG9	PG9
Cut size	13.3mm	13.3mm	13.3mm
Technical data			
Type of termination	Screw contacts	Screw contacts	Screw contacts
Contact screw torque	0.2 N*m	0.2 N*m	0.2 N*m
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	60V AC / DC	30V AC / DC
Rated current	4A	4A	2A
O-ring material	NBR	NBR	NBR
Conductors cross section	From 0.14(26AWG) to 0.50mm²(20AWG)	From 0.14(26AWG) to 0.50mm²(20AWG)	From 0.14(26AWG) to 0.50mm²(20AWG)
Packaging			
Qty/Bag	Not defined	Not defined	Not defined
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



Technical drawing



Product description

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 B-Coded		M12 B-Coded		M12 B-Coded	
Description	Circular connector M12 series, B-coded, panel mount		Circular connector M12 series B-coded, panel mount, with contacts suitable for solder PCB.		Circular connector M12 series B-coded, panel mount, with PVC soldered wires.	
Part number	B-12FP5000-PG9	B-12FR5000-PG9	B-12F05000-PG9-CUT	B-12FS5000-PG9-CUT	B-12FP5A0C-PG9	B-12FR5A0C-PG9
Housing type	Frontal panel side	Back panel side	Frontal panel side	Back panel side	Frontal panel side	Back panel side
Cable gland	Female		Female		Female	
Contacts type	5poles		5poles		5poles	
Fixing thread	PG9		PG9 + CUT		PG9	
Cut size	-		13.3mm		-	

Technical data

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	
Coupling nut type	Brass + Nickel plated		Brass + Nickel plated		Brass + Nickel plated	
M12 coupling 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	60V AC / DC		60V AC / DC		60V AC / DC	
Rated current	4A		4A		4A	
O-ring material	NBR		NBR		NBR	
Cable type	-		-		PVC	
No. Conductors / Section	-		-		5 x 0.25mm ²	
Conductor colours	-		-		Brown; White; Blue; Black; Grey	
Cable diameter	-		-		-	
Cable length	-		-		0.3m	

Packaging

Qty/Bag	Not defined	Not defined	Not defined
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Other accessories options

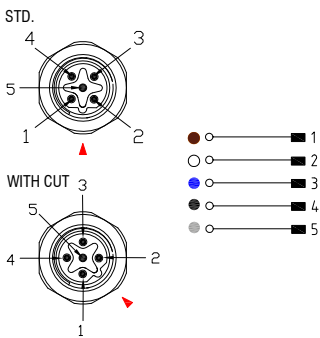
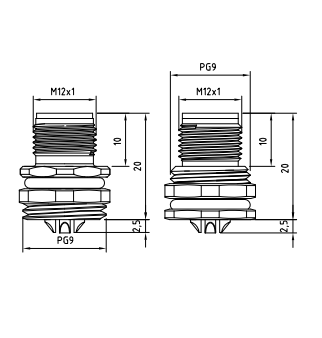
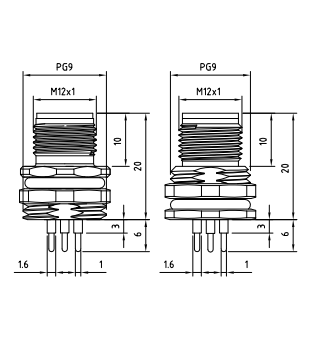
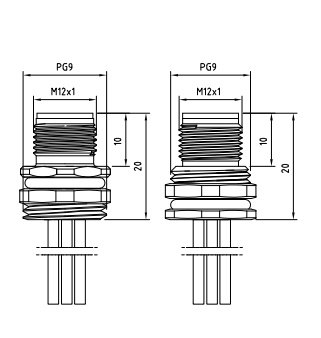
See accessories section

Notes:

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

M12 CIRCULAR CONNECTORS

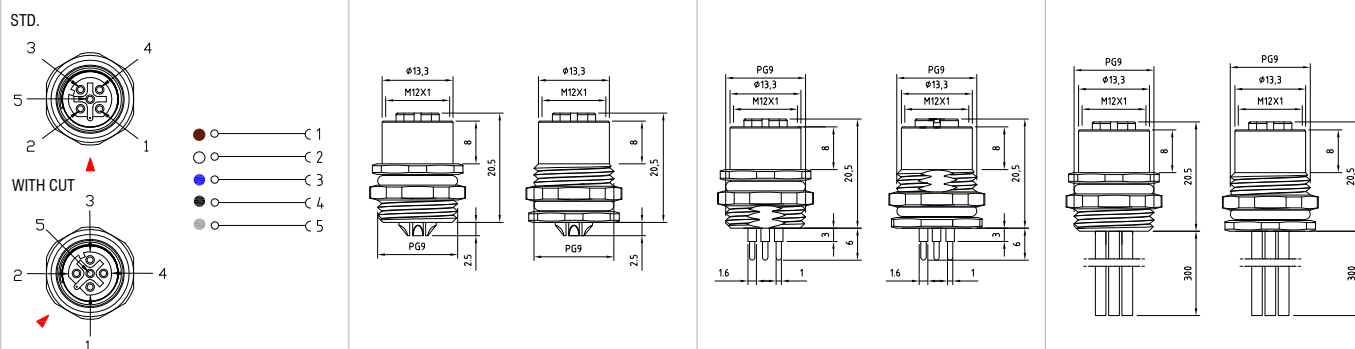


Technical drawing							
							
Product description							
Connector type		Circular connector panel mount		Circular connector panel mount		Circular connector panel mount	
Conforms to		IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101	
Construction type		M12 B-Coded		M12 B-Coded		M12 B-Coded	
Description		Circular connector M12 series,B-coded, panel mount		Circular connector M12 series B-coded,panel mount,with contacts suitable for solder PCB.		Circular connector M12 series B-coded,panel mount,with PVC soldered wires.	
Part number		B-12MP5000-PG9	B-12MR5000-PG9	B-12MQ5000-PG9-CUT	B-12MS5000-PG9-CUT	B-12MP5A0C-PG9	B-12MR5A0C-PG9
Housing type		Frontal panel side	Back panel side	Frontal panel side	Back panel side	Frontal panel side	Back panel side
Cable gland		Male		Male		Male	
Contacts type		5poles		5poles		5poles	
Fixing thread		PG9		PG9 + CUT		PG9	
Cut size		-		13.3mm		-	
Technical data							
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	
Coupling nut type		Brass + Nickel plated		Brass + Nickel plated		Brass + Nickel plated	
M12 coupling 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		60V AC / DC		60V AC / DC		60V AC / DC	
Rated current		4A		4A		4A	
O-ring material		NBR		NBR		NBR	
Cable type		-		-		PVC	
No.Conductors / Section		-		-		5 x 0.25mm²	
Conductor colours		-		-		Brown; White; Blue; Black;Grey	
Cable diameter		-		-		-	
Cable length		-		-		0.3m	
Packaging							
Qty/Bag		Not defined		Not defined		Not defined	
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



Technical drawing



Product description

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 D-Coded		M12 D-Coded	M12 D-Coded
Description	Circular connector M12 series,D-coded, panel mount		Circular connector M12 series,D-coded,panel mount,with contacts suitable for solder PCB.	Circular connector M12 series,D-coded,panel mount,with PVC soldered wires.
Part number	D-12FP5000-PG9	D-12FR5000-PG9	D-12FQ5000-PG9-CUT	D-12FS5000-PG9-CUT
Housing type	Frontal panel side	Back panel side	Frontal panel side	Back panel side
Cable gland	Female		Female	Female
Contacts type	5poles		5poles	5poles
Fixing thread	PG9		PG9 + CUT	PG9
Cut size	-		13.3mm	-

Technical data

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
Coupling nut type	Brass + Nickel plated	Brass + Nickel plated	Brass + Nickel plated
M12 coupling 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	60V AC / DC	60V AC / DC	60V AC / DC
Rated current	4A	4A	4A
O-ring material	NBR	NBR	NBR
Cable type	-	-	PVC
No.Conductors / Section	-	-	5 x 0.25mm ²
Conductor colours	-	-	Brown; White; Blue; Black;Grey
Cable diameter	-	-	-
Cable length	-	-	0.3m

Packaging

Qty/Bag	Not defined	Not defined	Not defined
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Other accessories options

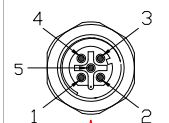
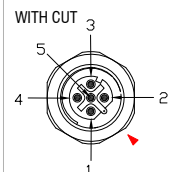
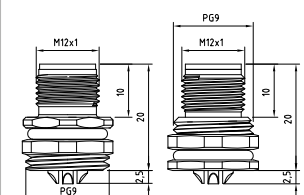
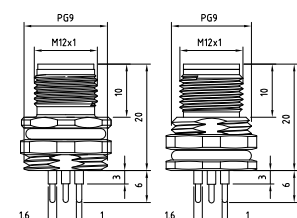
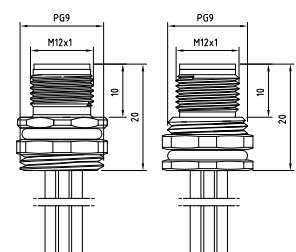
See accessories section

Notes:

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

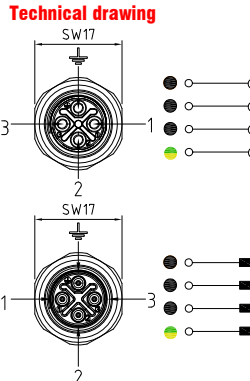
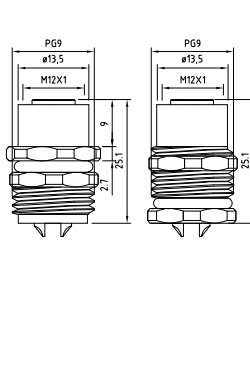
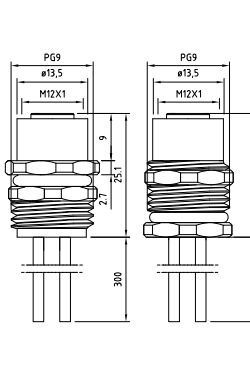
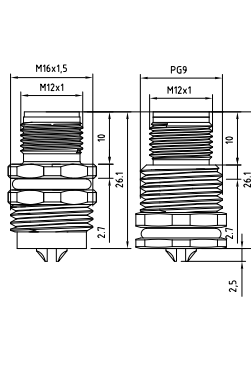
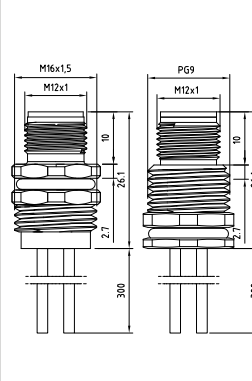
M12 CIRCULAR CONNECTORS



Technical drawing							
STD.  WITH CUT 							
Product description							
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 D-Coded		M12 D-Coded		M12 D-Coded	
Description		Circular connector M12 series,D-coded, panel mount		Circular connector M12 series,D-coded,panel mount,with contacts suitable for solder PCB.		Circular connector M12 series,D-coded,panel mount,with PVC soldered wires.	
Part number		D-12MP5000-PG9	D-12MR5000-PG9	D-12MQ5000-PG9-CUT	D-12MS5000-PG9-CUT	D-12MP5A0C-PG9	D-12MR5A0C-PG9
Housing type		Frontal panel side	Back panel side	Frontal panel side	Back panel side	Frontal panel side	Back panel side
Cable gland		Male		Male		Male	
Contacts type		5poles		5poles		5poles	
Fixing thread		PG9		PG9 + CUT		PG9	
Cut size		-		13.3mm		-	
Technical data							
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	
Coupling nut type		Brass + Nickel plated		Brass + Nickel plated		Brass + Nickel plated	
M12 coupling 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		60V AC / DC		60V AC / DC		60V AC / DC	
Rated current		4A		4A		4A	
O-ring material		NBR		NBR		NBR	
Cable type		-		-		PVC	
No.Conductors / Section		-		-		5 x 0.25mm²	
Conductor colours		-		-		Brown; White; Blue; Black;Grey	
Cable diameter		-		-		-	
Cable length		-		-		0.3m	
Packaging							
Qty/Bag		Not defined		Not defined		Not defined	
Other accessories options							
See accessories section							
Notes: Connectors available with different feautures: See the general features and codification scheme page							

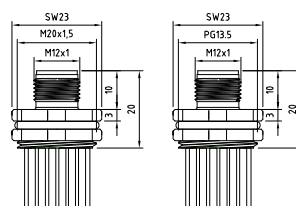
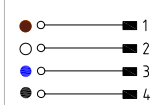
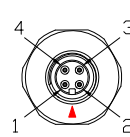
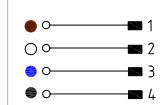
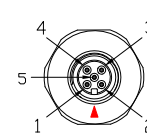
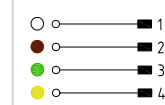
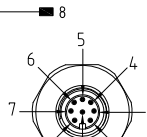
M12 CIRCULAR CONNECTORS



Technical drawing									
									
Product description									
Connector type		Circular connector panel mount		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		IEC 61076-2-101	
Construction type		M12 S-Coded		M12 S-Coded		M12 S-Coded		M12 S-Coded	
Description		Circular connector M12 series S-coded,panel mount		Circular connector M12 series panel mount with TPO soldered wires		Circular connector M12 series S-coded,panel mount		Circular connector M12 series panel mount with TPO soldered wires	
Part number		S-12FP4000-PG9	S-12FR4000-PG9	S-12FP4810C-PG9	S-12FR4810C-PG9	S-12MP4000-PG9	S-12MR4000-PG9	S-12MP4810C-PG9	S-12MR4810C-PG9
Housing type		Frontal panel side	Back panel side	Frontal panel side	Back panel side	Frontal panel side	Back panel side	Frontal panel side	Back panel side
Contacts type		Female		Female		Male		Male	
Number of contacts		3poles + P.E.		3poles + P.E.		3poles + P.E.		3poles + P.E.	
Fixing thread		PG9		PG9		PG9		PG9	
Cut size		-		-		-		-	
Technical data									
Type of termination		Contacts to solder wires		Contacts to solder wires		Contacts to solder wires		Contacts to solder wires	
Contacts material		Brass + Gold flash		Brass + Gold flash		Brass + Gold flash		Brass + Gold flash	
Housing material		Brass + Nickel plated		Brass + Nickel plated		Brass + Nickel plated		Brass + Nickel plated	
Mobile coupling nut material		Brass + Nickel plated (SW17)		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		0.4 N*m	
Rated voltage		630V AC		630V AC		630V AC		630V AC	
Rated current		12A		12A		12A		12A	
O-ring material		NBR		NBR		NBR		NBR	
Cable type		-		TPO		-		TPO	
No. Conductors / Section		-		4x1.5mm ²		-		4x1.5mm ²	
Conductor colours		-		Black 1; Black 2; Black 3; Yellow/Green		-		Black 1; Black 2; Black 3; Yellow/Green	
Cable diameter		-		-		-		-	
Cable length		-		0.3m		-		0.3m	
Packaging									
Qty/Bag		Not defined		Not defined					
Other accessories options									
See accessories section									
Notes:									

M12 CIRCULAR CONNECTORS

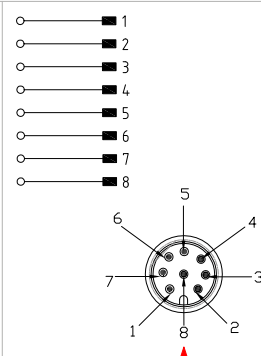
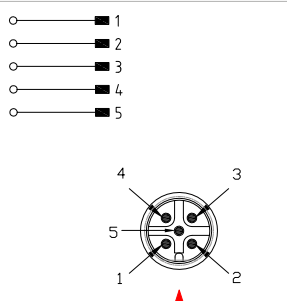
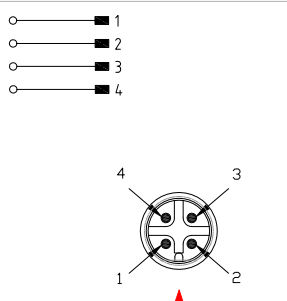
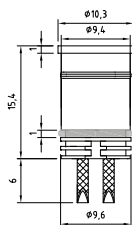


Technical drawing			
		 	
		 	
		 	
Product description			
Connector type	Circular connector panel mount		Circular connector panel mount
Conforms to	IEC 61076-2-101		IEC 61076-2-101
Construction type	M12 A-Coded		M12 A-Coded
Description	Circular connector M12 series,panel mount, with PVC soldered wires		Circular connector M12 series,panel mount, with PVC soldered wires
Part number	12MP4A0C-PG13.5	12MP4A0C-M20	12MP5A0C-PG13.5 12MP5A0C-M20
Housing type	Frontal panel side		Frontal panel side
Contacts type	Male		Male
Number of contacts	4poles		5poles
Fixing thread	PG13.5	M20x1.5	PG13.5 M20x1.5
Cut size	-		-
Technical data			
Type of termination	Contacts to solder wires		Contacts to solder wires
Contacts material	Brass + Gold flash		Brass + Gold flash
Housing material	Brass + Nickel plated		Brass + Nickel plated
Mobile coupling nut material	Brass + Nickel plated (SW22)		Brass + Nickel plated (SW22)
M12 coupling nut torque	0.4 N*m		0.4 N*m
Rated voltage	250V AC / DC		60V AC / DC
Rated current	4A		4A
O-ring material	NBR		NBR
Cable type	PVC		PVC
No. Conductors / Section	4 x 0.25mm²		5 x 0.25mm²
Conductor colours	Brown; White; Blue; Black		White;Brown;Green;Yellow;Grey;Pink;Blue;Red
Cable diameter	-		-
Cable length	0.3m		0.3m
Packaging			
Qty/Bag	Not defined		Not defined
Other accessories options			
See accessories section			
Notes:			
Connectors available with different feautres: See the general features and codification scheme page See the cables list section			

M12 CIRCULAR CONNECTORS



Technical drawing



Product description

Connector type	Internal core	Internal core	Internal core
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	Internal core of circular connector M12 series, panel mount	Internal core of circular connector M12 series, panel mount	Internal core of circular connector M12 series, panel mount
Part number	12MN4000	12MN5000	12MN8000
Internal core housing type	Connector panel mount	Connector panel mount	Connector panel mount
Contacts type	Male	Male	Male
Number of contacts	4poles	5poles	8poles

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
Internal core housing material	PA66	PA66	PA66
Rated voltage	250V AC / DC	60V AC / DC	30V AC / DC
Rated current	4A	4A	2A
O-ring material	NBR	NBR	NBR
Cable type	-	-	-
No. Conductors / Section	-	-	-
Conductor colours	-	-	-
Cable diameter	-	-	-
Cable length			

Packaging

Qty/Bag	Not defined	Not defined	Not defined
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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

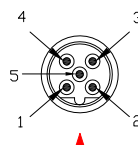
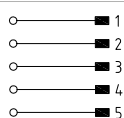
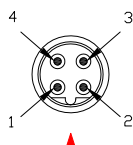
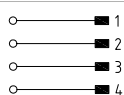
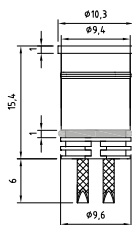


Technical drawing			
Product description			
Connector type	Internal core	Internal core	Internal core
Conforms to	IEC 61076-2-101	IEC 61076-2-101	IEC 61076-2-101
Construction type	M12 A-Coded	M12 A-Coded	M12 A-Coded
Description	Internal core of circular connector M12 series, panel mount	Internal core of circular connector M12 series, panel mount	Internal core of circular connector M12 series, panel mount
Part number	12FN4000	12FN5000	12FN8000
Internal core housing type	Connector panel mount	Connector panel mount	Connector panel mount
Contacts type	Female	Female	Female
Number of contacts	4poles	5poles	8poles
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
Internal core housing material	PA66	PA66	PA66
Rated voltage	250V AC / DC	60V AC / DC	30V AC / DC
Rated current	4A	4A	2A
O-ring material	NBR	NBR	NBR
Cable type	-	-	-
No. Conductors / Section	-	-	-
Conductor colours	-	-	-
Cable diameter	-	-	-
Cable length	-	-	-
Packaging			
Qty/Bag	Not defined	Not defined	Not defined
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



Technical drawing



Product description

Connector type	Internal core	Internal core	
Conforms to	IEC 61076-2-101	IEC 61076-2-101	
Construction type	M12 B-Coded	M12 B-Coded	
Description	Internal core of circular connector M12 series, B-coded, panel mount	Internal core of circular connector M12 series, B-coded, panel mount	
Part number	B-12MN4000	B-12MN5000	
Internal core housing type	Connector panel mount	Connector panel mount	
Contacts type	Male	Male	
Number of contacts	4poles	5poles	

Technical data

Type of termination	Contacts to solder wires	Contacts to solder wires	
Contacts material	Brass + Gold flash	Brass + Gold flash	
Internal core housing material	PA66	PA66	
Rated voltage	250V AC / DC	60V AC / DC	
Rated current	4A	4A	
O-ring material	NBR	NBR	
Cable type	-	-	
No. Conductors / Section	-	-	
Conductor colours	-	-	
Cable diameter	-	-	
Cable length			

Packaging

Qty/Bag	Not defined	Not defined	
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Other accessories options

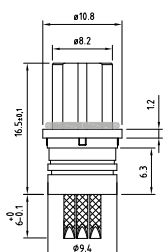
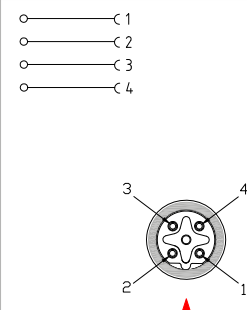
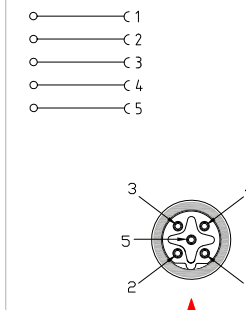
See accessories section

Notes:

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

M12 CIRCULAR CONNECTORS

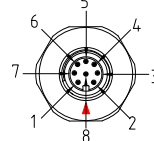
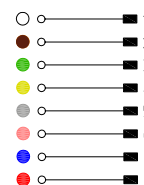
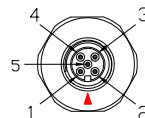
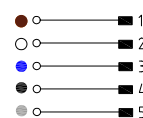
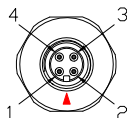
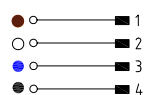
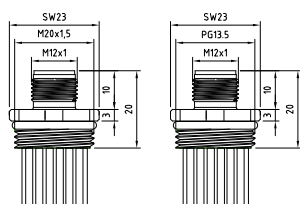


Technical drawing			
			
Product description			
Connector type	Internal core	Internal core	
Conforms to	IEC 61076-2-101	IEC 61076-2-101	
Construction type	M12 B-Coded	M12 B-Coded	
Description	Internal core of circular connector M12 series,B-coded,panel mount	Internal core of circular connector M12 series,B-coded,panel mount	
Part number	B-12FN4000	B-12FN5000	
Internal core housing type	Connector panel mount	Connector panel mount	
Contacts type	Female	Female	
Number of contacts	4poles	5poles	
Technical data			
Type of termination	Contacts to solder wires	Contacts to solder wires	
Contacts material	Brass + Gold flash	Brass + Gold flash	
Internal core housing material	PA66	PA66	
Rated voltage	250V AC / DC	60V AC / DC	
Rated current	4A	4A	
O-ring material	NBR	NBR	
Cable type	-	-	
No.Conductors / Section	-	-	
Conductor colours	-	-	
Cable diameter	-	-	
Cable length	-	-	
Packaging			
Qty/Bag	Not defined	Not defined	
Other accessories options			
See accessories section			
Notes: Connectors available with different feautures: See the general features and codification scheme page See the cables list section			

M12 CIRCULAR CONNECTORS



Technical drawing



Product description

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, plastic material, with PVC soldered wires		Circular connector M12 series, panel mount, plastic material, with PVC soldered wires		Circular connector M12 series, panel mount, plastic material, with PVC soldered wires	
Part number	12MPP4A0C-PG13.5	12MPP4A0C-M20	12MPP5A0C-PG13.5	12MPP5A0C-M20	12MPP8A0C-PG13.5	12MPP8A0C-M20
Housing type	Frontal panel side		Frontal panel side		Frontal panel side	
Contacts type	Male		Male		Male	
Number of contacts	4poles		5poles		8poles	
Fixing thread	PG13.5	M20x1.5	PG13.5	M20x1.5	PG13.5	M20x1.5
Fixed nut size	SW23		SW23		SW23	

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	
Housing material	PA66		PA66		PA66	
Mobile coupling nut material	-		-		-	
M12 coupling nut torque	0.4 N*m		0.4 N*m		0.4 N*m	
Rated voltage	250V AC / DC		60V AC / DC		30V AC / DC	
Rated current	4A		4A		2A	
O-ring material	NBR		NBR		NBR	
Cable type	PVC		PVC		PVC	
No. Conductors / Section	4 x 0.25mm ²		5 x 0.25mm ²		8 x 0.25mm ²	
Conductor colours	Brown; White; Blue; Black		Brown; White; Blue; Black; Grey		White; Brown; Green; Yellow; Grey; Pink; Blue; Red	
Cable diameter	-		-		-	
Cable length	0.3m		0.3m		0.3m	

Packaging

Qty/Bag	Not defined	Not defined	Not defined
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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