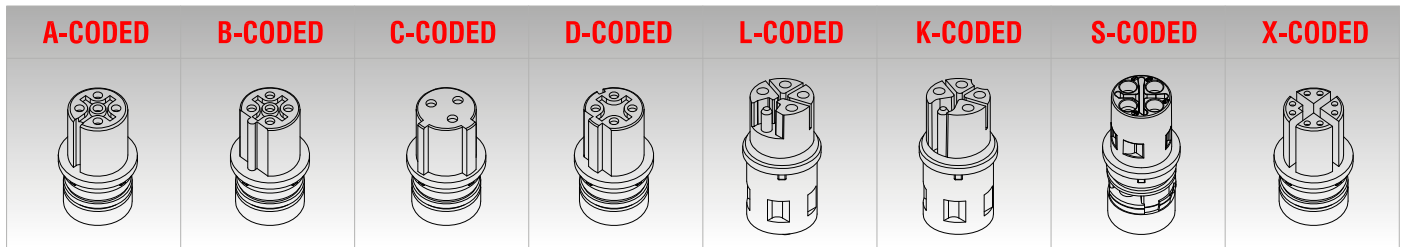





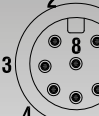

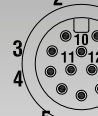


M12 CIRCULAR CONNECTORS

• **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 : PURPLE ● 11 : PINK/GREY ● 12 : RED/BLUE ●					

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:**



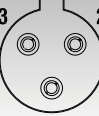
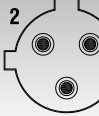
FEMALE	MALE	5 POLES:
		1 : SHIELD ● 2 : RED ● 3 : BLACK ● 4 : WHITE ○ 5 : BLUE ●

• **M12 B-CODED PROFIBUS NETWORKS:**



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




• **M12 C-CODED I/O NETWORKS:**

FEMALE	MALE	3 POLES (2P+P.E.):
		1 (P.E.) : YELLOW/GREEN ● 2 : BLUE ● 3 : BROWN ●




M12 CIRCULAR CONNECTORS

Technical informations



M12 D-CODED PROFINET/ETHERCAT NETWORKS:

FEMALE	MALE	5 POLES: 1 : YELLOW ● 2 : WHITE ○ 3 : ORANGE ● 4 : BLUE ● TOTALLY SHIELDED CONNECTOR 360° ⊕	
			



M12 D-CODED ETHERNET NETWORKS:

FEMALE	MALE	5 POLES: 1 : WHITE -ORANGE ○ 2 : ORANGE ● 3 : WHITE/GREEN ● 4 : GREEN ● 5 : SHIELD ● TOTALLY SHIELDED CONNECTOR 360° ⊕	
			



M12 K-CODED POWER CONNECTOR :

FEMALE P.E.	MALE P.E.	5 POLES (4P+P.E.): 1 : BLACK 1 ● 2 : BLACK 2 ● 3 : BLACK 3 ● 4 : BLACK 4 ● 5 (P.E.) : YELLOW/GREEN ●	5 POLES TOTALLY SHIELDED (4P+P.E.): 1 : BLACK 1 ● 2 : BLACK 2 ● 3 : BLACK 3 ● 4 : BLACK 4 ● 5 (P.E.) : YELLOW/GREEN ● ⊕ TOTALLY SHIELDED CONNECTOR 360° + SHIELD CONNECTED TO P.E.
			

M12 L-CODED POWER CONNECTOR :

FEMALE P.E.	MALE P.E.	5 POLES (4P+P.E.): 1 : BROWN ● 2 : WHITE ○ 3 : BLUE ● 4 : BLACK ● 5 (P.E.) : GREY ●	5 POLES TOTALLY SHIELDED (4P+P.E.): 1 : BROWN ● 2 : WHITE ○ 3 : BLUE ● 4 : BLACK ● 5 (P.E.) : GREY ● ⊕ TOTALLY SHIELDED CONNECTOR 360° ⊕
			

M12 S-CODED POWER CONNECTOR :

FEMALE P.E.	MALE P.E.	4 POLES (3P+P.E.): 1 : BLACK 1 ● 2 : BLACK 2 ● 3 : BLACK 3 ● 4 (P.E.) : YELLOW/GREEN ●	4 POLES TOTALLY SHIELDED (3P+P.E.): 1 : BLACK 1 ● 2 : BLACK 2 ● 3 : BLACK 3 ● 4 (P.E.) : YELLOW/GREEN ● ⊕ TOTALLY SHIELDED CONNECTOR 360° ⊕
			

M12 X-CODED ETHERNET NETWORKS:

FEMALE	MALE	8 POLES: 1 : WHITE -ORANGE ○ 2 : ORANGE ● 3 : WHITE/GREEN ● 4 : GREEN ● 5 : WHITE/BROWN ● 6 : BROWN ● 7 : WHITE/BLUE ● 8 : BLUE ● TOTALLY SHIELDED CONNECTOR 360° ⊕	
			

GENERAL FEATURES OF FIELD ATTACHABLE CONNECTORS:

Cable Gland :

Plastic Housing

PG7 : Ø CABLE 4-6mm.

PG9 : Ø CABLE 6-8mm.

PG11 : Ø CABLE 6-10mm.

PG11 double exit: Ø5.5mm max.

SK : Ø CABLE 4-8.6mm.

Metal Housing : Ø CABLE 4-8mm.

Max. screw torque IEC60947-1 :

Contact screw torque 0.2N*m.

M12 coupling nut torque 0.4N*m.

ATEX coupling nut torque 0.6N*m.

Type of terminations :

Screw.

Solder wires(12 poles).

Internal core material :

PA66 UL94-V2.

PA66 UL94-V0(ATEX approved).

Coupling nut material :

Brass + Nickel plated.

Stainless steel AISI304(upon request).

Stainless steel AISI316(upon request).

Protection class :

IP65/67 (assembled).

Operating temperature :

-40°C +90°C.

-25°C +85°C(metal housing).

-20°C +85°C ATEX approved.

Conductor cross section :

0.14(26AWG)...0.75mm²(18AWG).

Contact material and treatment :

Brass + Gold flash.

Flammability resistance :

UL94-V2 - Standard.

UL94-V0 - ATEX approved.

Fixing system :

M12 coupling nut.

Housing material :

PA66 UL94-V2.

PA66 UL94-V0 ATEX approved.

Brass + Nickel plated.

- 12 F C 4 000 -

CODING

NO DIGIT : M12 A-CODING

B : M12 B-CODING

D : M12 D-CODING

SERIES

12 : M12 CIRCULAR CONNECTOR.

GENDER

F : FEMALE. **M :** MALE.

HOUSING TYPE

C : STRAIGHT PLASTIC HOUSING 180° - PG7 CABLE GLAND.

B : ANGLED PLASTIC HOUSING 90° - PG7 CABLE GLAND.

L : STRAIGHT PLASTIC HOUSING 180° - PG11 CABLE GLAND.

U : ANGLED PLASTIC HOUSING 90° - PG11 CABLE GLAND.

1 : STRAIGHT METAL HOUSING 180°

NUMBERS OF POLES

4 : 4POLES. 5 : 5POLES. 8 : 8POLES. 12 : 12POLES.

CABLE TYPE AND LENGTH

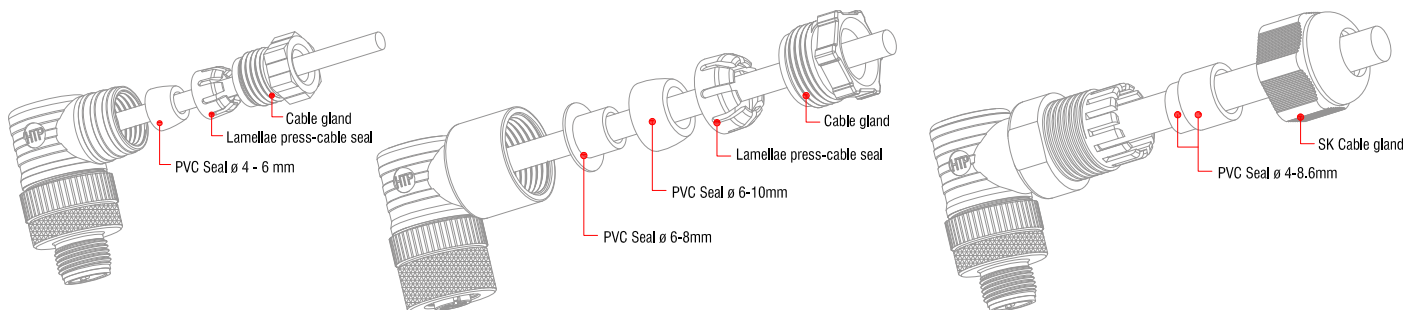
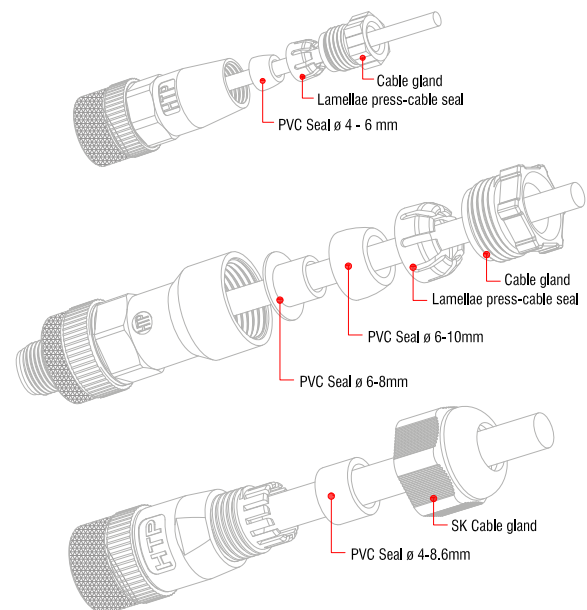
000 : WITHOUT CABLE.

SOME VARIABLES

ATEX : ATEX conform. **H :** HEXAGONAL PRESS CABLE SCREW. **HN :** HEXAGONAL M12 COUPLING NUT.

INOX : M12 COUPLING NUT IN STAINLESS STEEL(AISI304). **INOX316 :** M12 COUPLING NUT IN STAINLESS STEEL(AISI316).

SK : Cable gland SK style. **Y :** WITHOUT H.T.P.LOGO.



M12 CIRCULAR CONNECTORS

A-coded - Field attachable connectors



Technical drawing

Technical drawing showing dimensions and contact configurations for M12 circular connectors. Dimensions include 23.6, 35, 19.6, 12.1, 12.8, and 12.8. Contact configurations are shown for 4, 5, 8, and 12 poles.

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	12FB4000	12FC5000	12FB5000	12FC8000	12FB8000	12FC12000	12FB12000
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	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-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

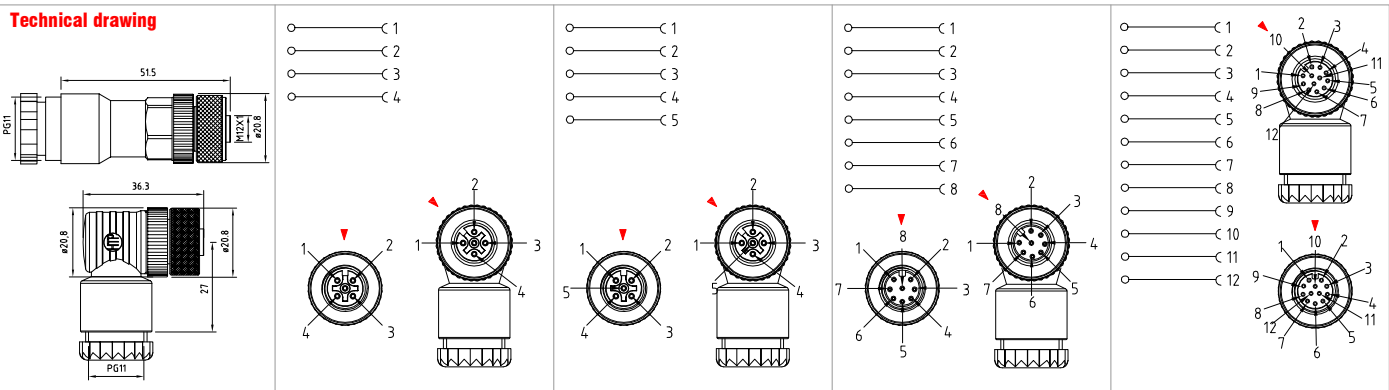
Packaging				
Qty/Bag	1 pc / bag	1 pc / bag	1 pc / bag	1 pc / bag

Other accessories options
See accessories section

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



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	12FL4000	12FU4000	12FL5000	12FU5000	12FL8000	12FU8000	12FL12000	12FU12000
Housing type	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	
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	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-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		
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	∅ cable 6-10mm Double exit ∅5mm(max.)	∅ cable 6-10mm Double exit ∅5mm(max.)	∅ cable 6-10mm Double exit ∅5mm(max.)	∅ cable 6-10mm Double exit ∅5mm(max.)

Packaging

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

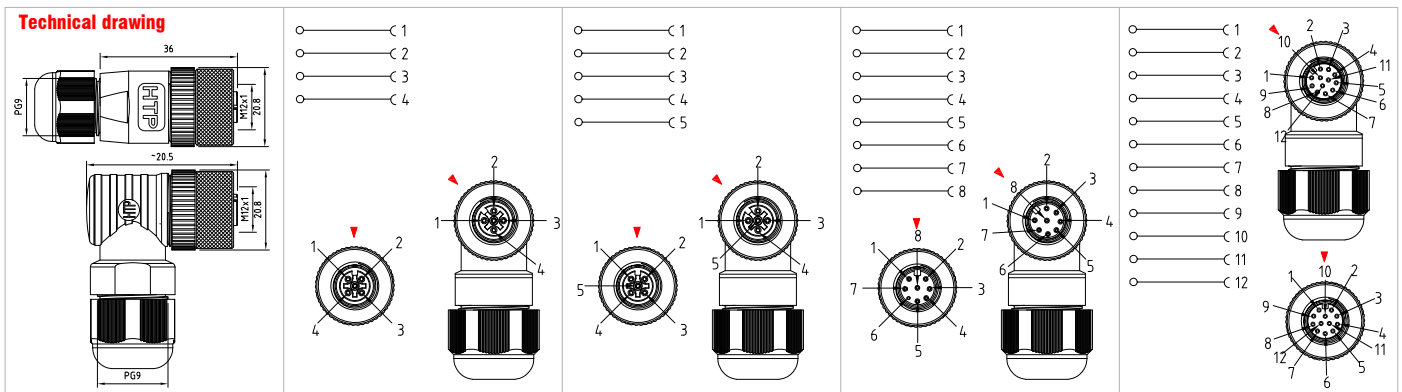
See accessories section

Notes:

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

M12 CIRCULAR CONNECTORS

A-coded - Field attachable connectors



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-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°
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	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-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	∅ 4 - 8.6mm	∅ 4 - 8.6mm	∅ 4 - 8.6mm	∅ 4 - 8.6mm

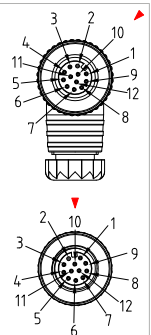
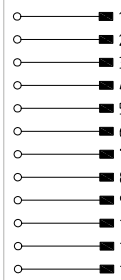
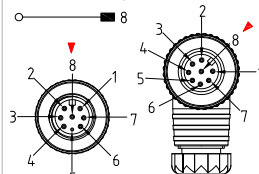
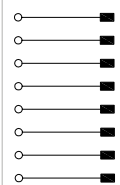
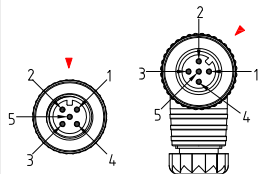
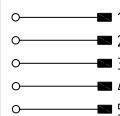
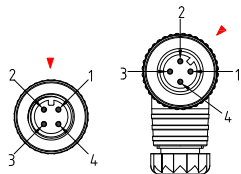
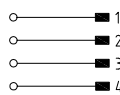
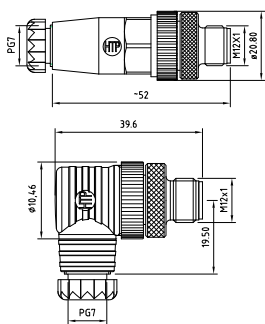
Packaging				
Qty/Bag	1 pc / bag	1 pc / bag	1 pc / bag	1 pc / bag

Other accessories options
See accessories section

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



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

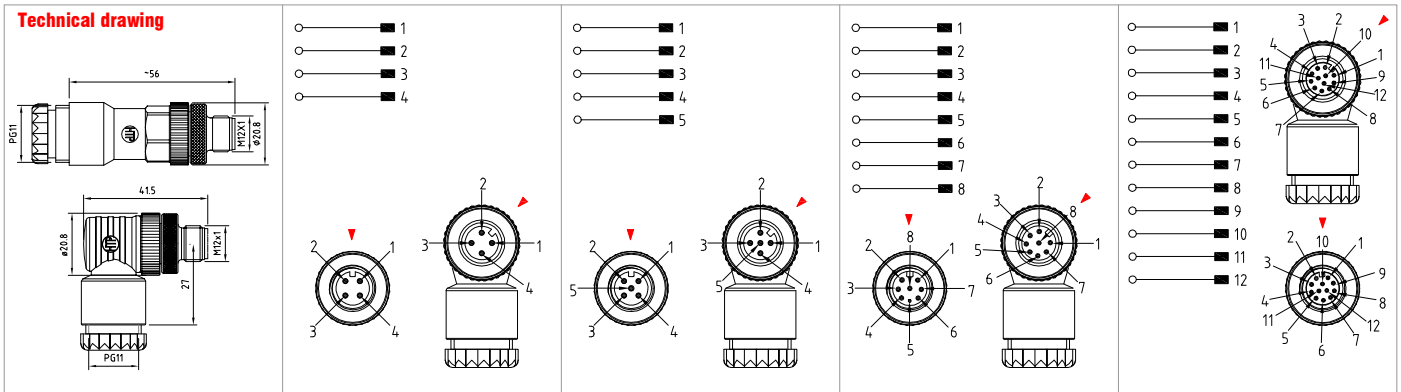
See accessories section

Notes:

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

M12 CIRCULAR CONNECTORS

A-coded - Field attachable connectors



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 A-Coded		M12 A-Coded	
Part number	12ML4000	12MU4000	12ML5000	12MU5000
Housing type	Straight 180°	Angled 90°	Straight 180°	Angled 90°
Cable gland	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	
Contacts type	Male		Male	
Number of contacts	4poles		5poles	
Housing colour	Black		Black	

Technical data				
Type of termination	Screw contacts		Solder contacts	
Contact screw torque	0.2 N*m		-	
Housing material	PA66 UL94-V2		PA66 UL94-V2	
Contacts material	Brass + Gold flash		Brass + Gold flash	
Coupling nut type	Knurl round		Knurl round	
M8 coupling nut material	Brass + Nickel plated		Brass + Nickel plated	
M8 coupling nut torque	0.4 N*m		0.4 N*m	
Rated voltage	250V AC/DC		30V AC/DC	
Rated current	4A		2A	
Temperature range	-40°C +90°C		-40°C +90°C	
O-ring material	NBR		NBR	
Suitable cable	Ø cable 6-10mm Double exit Ø5mm(max.)		Ø cable 6-10mm Double exit Ø5mm(max.)	

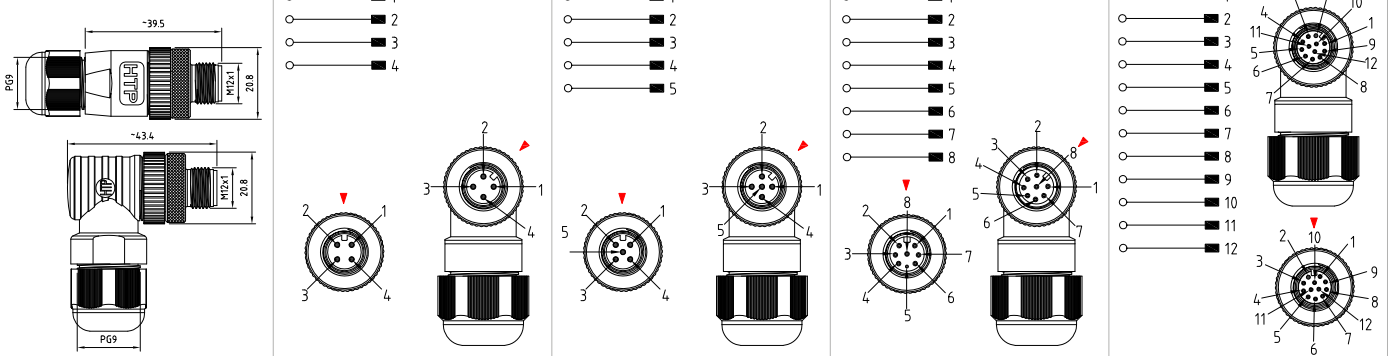
Packaging				
Qty/Bag	1 pc / bag		1 pc / bag	

Other accessories options
See accessories section

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



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 - 8.6mm	ø 4 - 8.6mm	ø 4 - 8.6mm	ø 4 - 8.6mm

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

A-coded - Field attachable 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	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	-25°C +85°C		-25°C +85°C		-25°C +85°C		-25°C +85°C			
O-ring material	NBR		NBR		NBR		NBR			
Suitable cable	ø 4 - 8mm		ø 4 - 8mm		ø 4 - 8mm		ø 4 - 8mm			

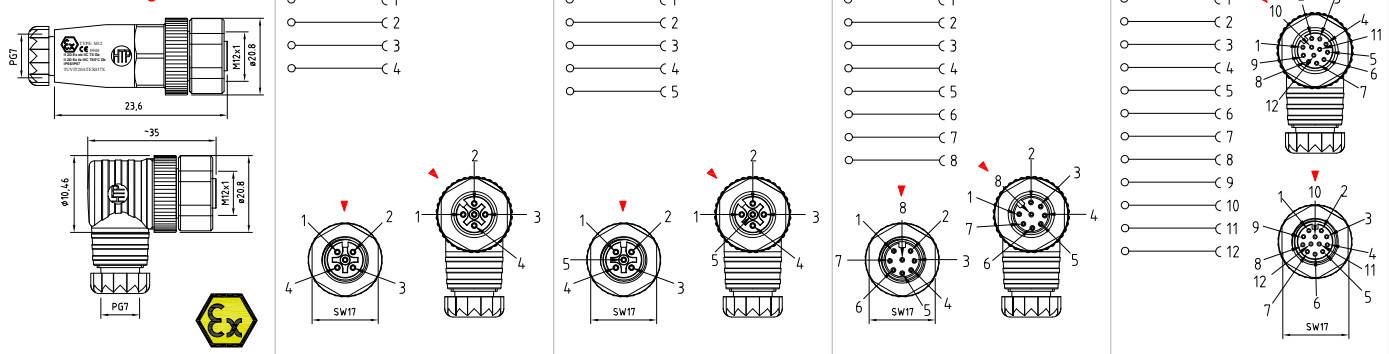
Packaging										
Qty/Bag	1 pc / bag		1 pc / bag		1 pc / bag		1 pc / bag			

Other accessories options
See accessories section

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



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	Hexagonal (SW17)	Hexagonal (SW17)	Hexagonal (SW17)	Hexagonal (SW17)
M12 coupling nut material	Brass+Nickel plated	Brass+Nickel plated	Brass+Nickel plated	Brass+Nickel plated
M12 coupling nut torque	0.6 N*m	0.6 N*m	0.6 N*m	0.6 N*m
Rated voltage	250V AC/DC	125V AC/DC	60V AC/DC	30V AC/DC
Rated current	4A	4A	2A	1A
Temperature range	-20°C + 85°C	-20°C + 85°C	-20°C + 85°C	-20°C + 85°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

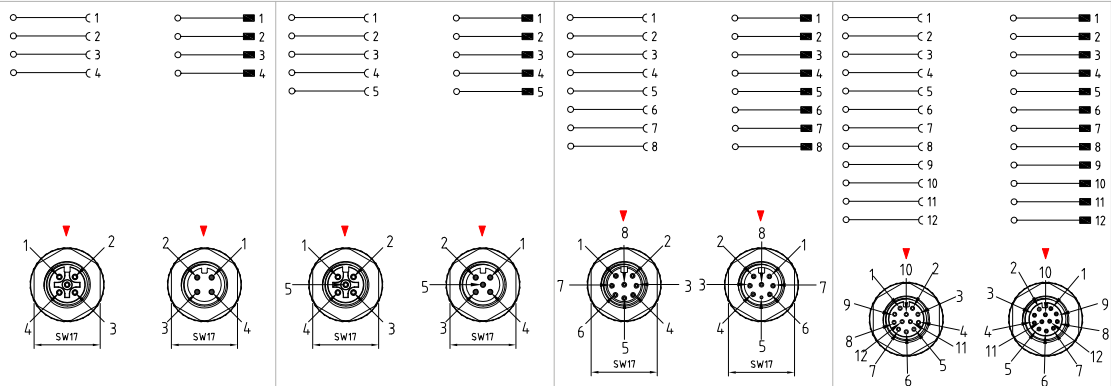
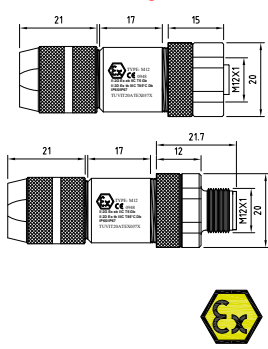
A-coded - Field attachable connectors



Technical drawing		1 2 3 4		1 2 3 4 5		1 2 3 4 5 6 7 8		1 2 3 4 5 6 7 8 9 10 11 12	
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-ATEX	12MB12000-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	Hexagonal (SW17)		Hexagonal (SW17)		Hexagonal (SW17)		Hexagonal (SW17)		
M12 coupling nut material	Brass + Nickel plated		Brass + Nickel plated		Brass + Nickel plated		Brass + Nickel plated		
M12 coupling nut torque	0.6 N*m		0.6 N*m		0.6 N*m		0.6 N*m		
Rated voltage	250V AC/DC		125V AC/DC		60V AC/DC		30V AC/DC		
Rated current	4A		4A		2A		1A		
Temperature range	-20°C +85°C		-20°C +85°C		-20°C +85°C		-20°C +85°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									



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	12F12000-ATEX	12M12000-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	Metal		Metal		Metal		Metal	

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	Hexagonal (SW17)	Hexagonal (SW17)	Hexagonal (SW17)	Hexagonal (SW17)
M12 coupling nut material	Brass + Nickel plated	Brass + Nickel plated	Brass + Nickel plated	Brass + Nickel plated
M12 coupling nut torque	0.6 N*m	0.6 N*m	0.6 N*m	0.6 N*m
Rated voltage	250V AC/DC	125V AC/DC	60V AC/DC	30V AC/DC
Rated current	4A	4A	2A	1A
Temperature range	-20°C + 85°C	-20°C + 85°C	-20°C + 85°C	-20°C + 85°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

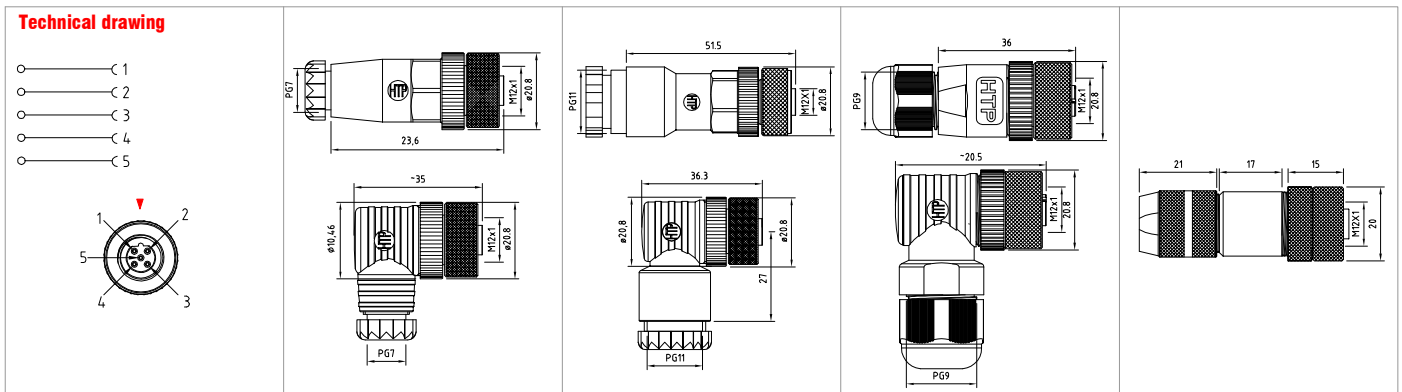
See accessories section

Notes:

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

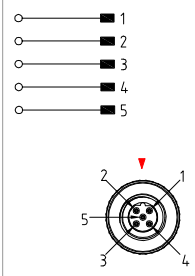
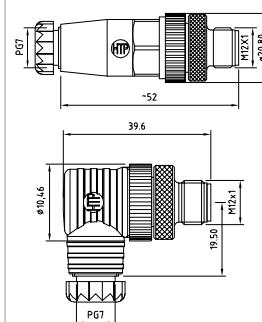
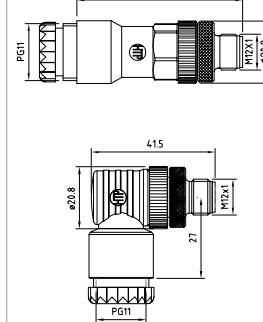
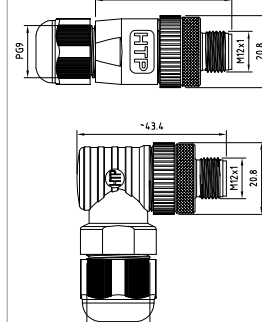
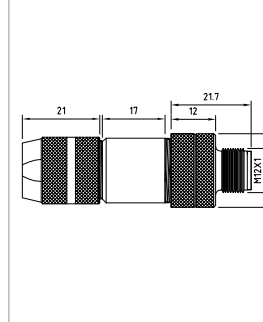
M12 CIRCULAR CONNECTORS

B-coded - Field attachable connectors



Product description		Circular connector field attachable	Circular connector field attachable	Circular connector field attachable	Circular connector field attachable
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 B-Coded	M12 B-Coded	M12 B-Coded	M12 B-Coded	M12 B-Coded
Part number	B-12FC5000 B-12FB5000	B-12FL5000 B-12FU5000	B-12FC5000-SK B-12FB5000-SK	B-12F15000	
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	Female	Female	Female	Female	
Number of contacts	5poles	5poles	5poles	5poles	
Housing colour	Black	Black	Black	Metal	
Technical data		Technical data		Technical data	
Type of termination	Screw contacts	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	0.2 N*m
Housing material	PA66 UL94-V2	PA66 UL94-V2	PA66 UL94-V2	Brass + Nickel plated	Brass + Nickel plated
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
M12 coupling nut material	Brass + Nickel plated	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	0.4 N*m
Rated voltage	60V AC/DC	60V AC/DC	60V AC/DC	60V AC/DC	60V AC/DC
Rated current	4A	4A	4A	4A	4A
Temperature range	-40°C + 90°C	-40°C + 90°C	-40°C + 90°C	-40°C + 90°C	-25°C + 85°C
O-ring material	NBR	NBR	NBR	NBR	NBR
Suitable cable	ø 4 - 6mm	ø cable 6-10mm Double exit ø5mm(max.)	ø 4 - 8.6mm	ø 4 - 8mm	
Packaging		Packaging		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 See the cables list section					



Technical drawing				
				

Product description	Circular connector field attachable		Circular connector field attachable		Circular connector field attachable		Circular connector field attachable
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		Metal

Technical data	Circular connector field attachable		Circular connector field attachable		Circular connector field attachable		Circular connector field attachable
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		-25°C + 85°C
O-ring material	NBR		NBR		NBR		NBR
Suitable cable	ø 4 - 6mm		ø cable 4-8mm ø cable 6-10mm Double exit ø5mm(max.)		ø 4 - 8.6mm		ø 4 - 8mm

Packaging	Circular connector field attachable		Circular connector field attachable		Circular connector field attachable		Circular connector field attachable
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

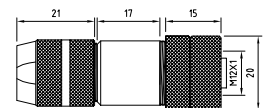
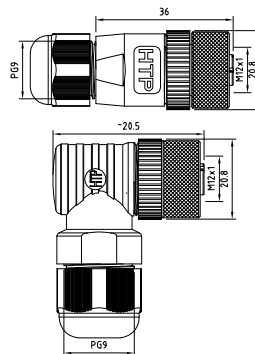
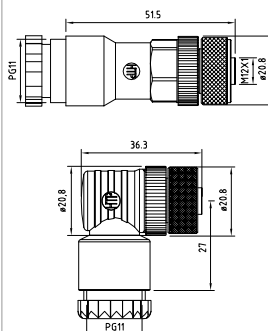
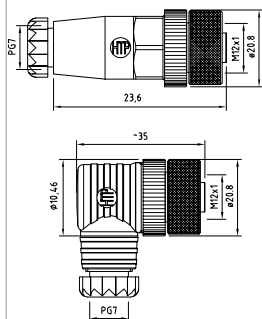
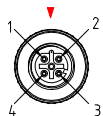
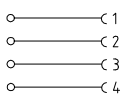
B-coded - Field attachable connectors



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	Metal	Metal	
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	Hexagonal (SW17)	Hexagonal (SW17)	
M12 coupling nut material	Brass+Nickel plated	Brass + Nickel plated	
M12 coupling nut torque	0.6 N*m	0.6 N*m	
Rated voltage	125V AC/DC	125V AC/DC	
Rated current	4A	4A	
Temperature range	-20°C +85°C	-20°C +85°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			



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		Metal	

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		-25°C + 85°C	
O-ring material	NBR		NBR		NBR		NBR	
Suitable cable	ø 4 - 6mm		ø cable 6-10mm Double exit ø5mm(max.)		ø 4 - 8.6mm		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

D-coded - Field attachable connectors



Technical drawing	PG7	PG11	PG9	SK

Product description	D-12MC4000 D-12MB4000		D-12ML4000 D-12MU4000		D-12MC4000-SK D-12MB4000-SK		D-12M14000
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		Metal

Technical data	D-12MC4000 D-12MB4000		D-12ML4000 D-12MU4000		D-12MC4000-SK D-12MB4000-SK		D-12M14000
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		-25°C +85°C
O-ring material	NBR		NBR		NBR		NBR
Suitable cable	ø 4 - 6mm		ø cable 6-10mm Double exit ø5mm(max.)		ø 4 - 8.6mm		ø 4 - 8mm

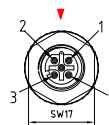
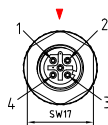
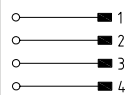
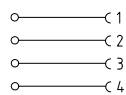
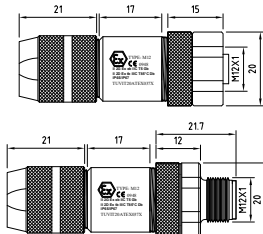
Packaging	D-12MC4000 D-12MB4000		D-12ML4000 D-12MU4000		D-12MC4000-SK D-12MB4000-SK		D-12M14000
Qty/Bag	1 pc / bag		1 pc / bag		1 pc / bag		1 pc / bag

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



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	4poles	4poles	
Housing colour	Metal	Metal	

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	Hexagonal (SW17)	Hexagonal (SW17)	
M12 coupling nut material	Brass + Nickel plated	Brass + Nickel plated	
M12 coupling nut torque	0.6 N*m	0.6 N*m	
Rated voltage	250V AC/DC	250V AC/DC	
Rated current	4A	4A	
Temperature range	-20°C +85°C	-20°C +85°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

Moulded cable connectors - General features and codification scheme



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.

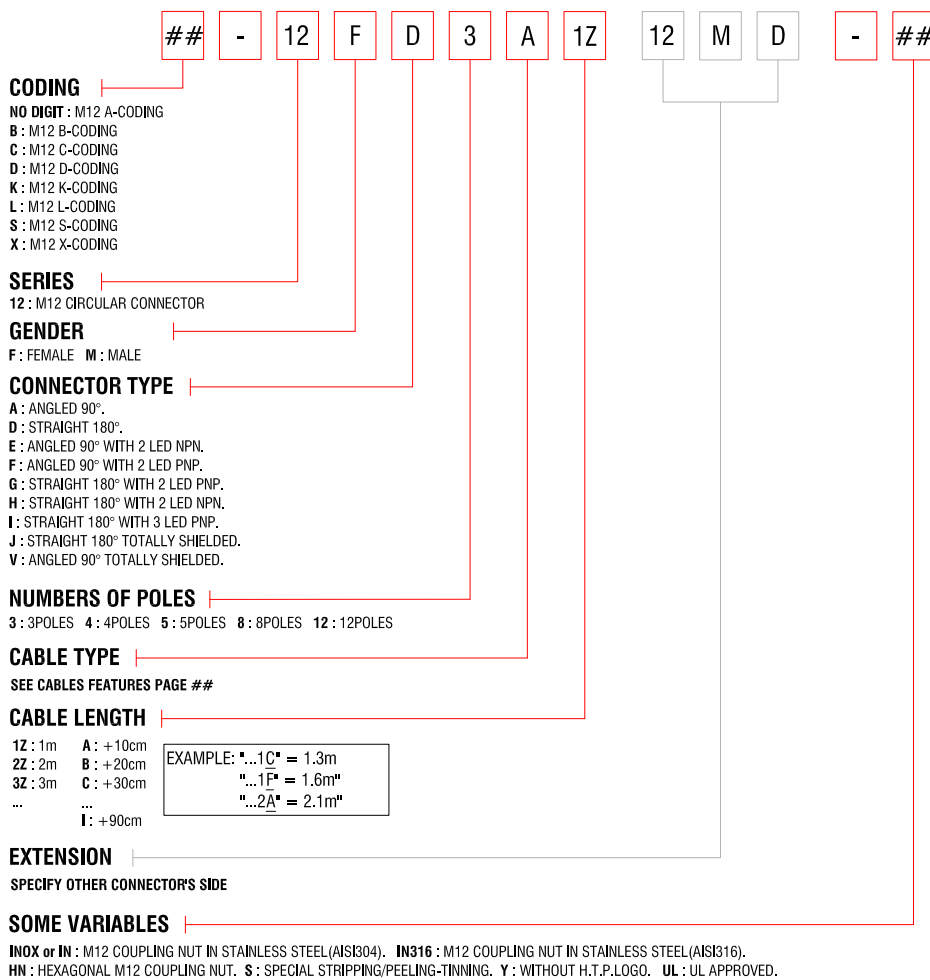
Operating temperature :
-25°C +90°C Standard.
-25°C +120°C (UL approved connectors).

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

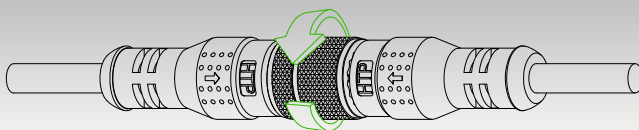
Internal core material :
PA66.

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).

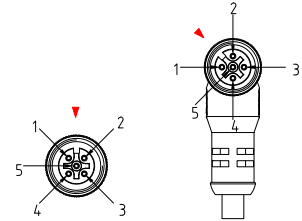
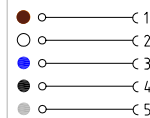
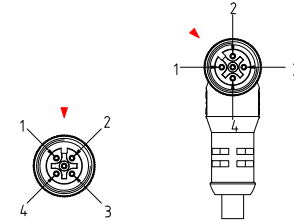
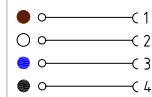
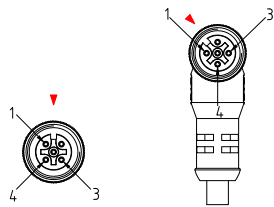
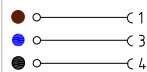
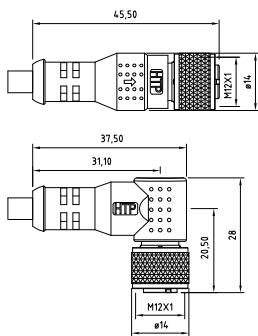


ANTI-VIBRATION SYSTEM:





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

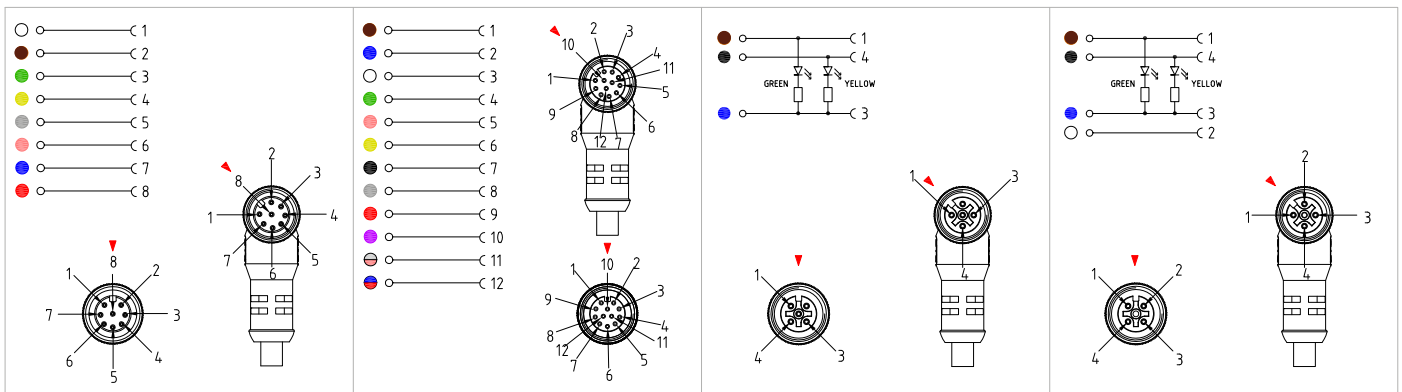
See accessories section

Notes:

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

M12 CIRCULAR CONNECTORS

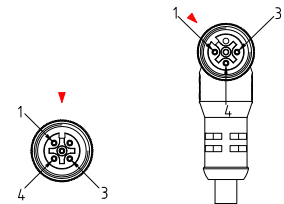
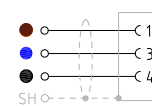
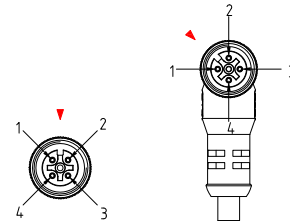
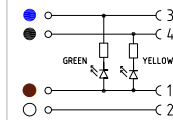
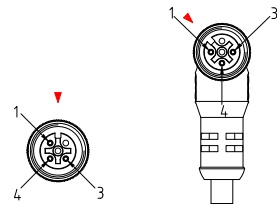
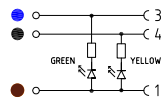
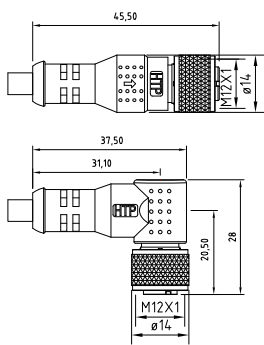
Moulded cable connectors - A-coded



Product description							
Circular connector with moulded cable		Circular connector with moulded cable		Circular connector with moulded cable		Circular connector with moulded cable	
IEC 61076-2-101		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	
Other accessories options							
See accessories section							
Notes:							
Connectors available with different features: See the general features and codification scheme page See the cables list section							



Technical drawing



Product description

Connector type	Circular connector with moulded cable		Circular connector with moulded cable		Circular connector with moulded cable	
Conforms to	IEC 61076-2-101		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°	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		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

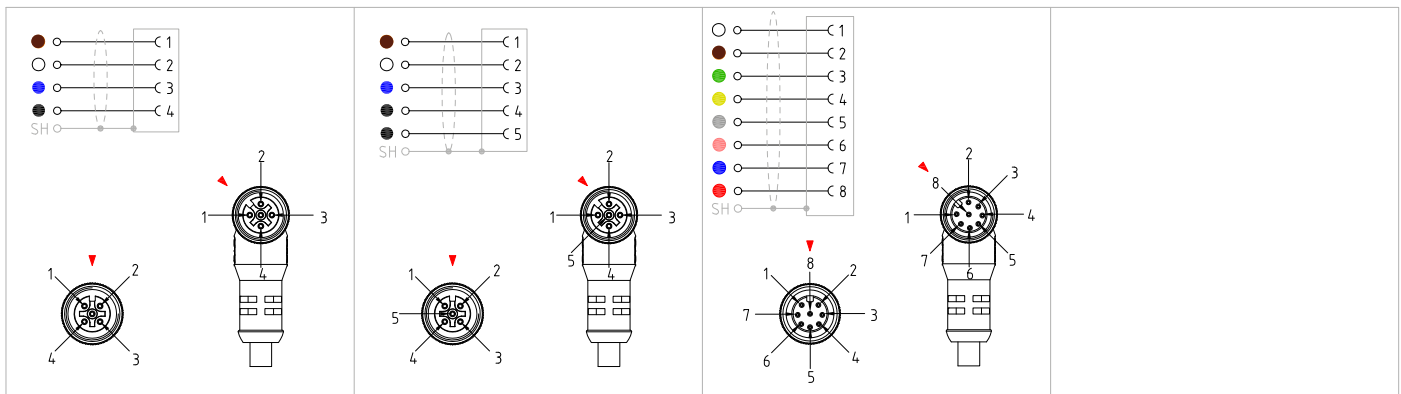
See accessories section

Notes:

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

M12 CIRCULAR CONNECTORS

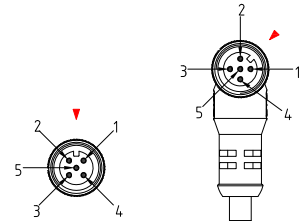
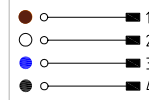
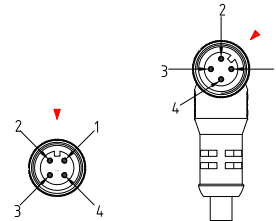
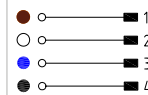
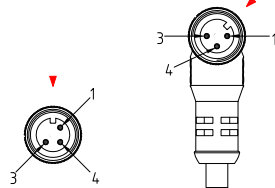
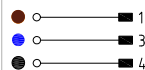
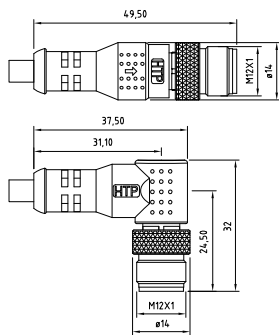
Moulded cable connectors - A-coded



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 SHIELED	
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	
Other accessories options					
See accessories section					
Notes:					
Connectors available with different features: See the general features and codification scheme page See the cables list section					



Technical drawing



Product description

Connector type	Circular connector with moulded cable		Circular connector with moulded cable		Circular connector with moulded cable	
Conforms to	IEC 61076-2-101		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

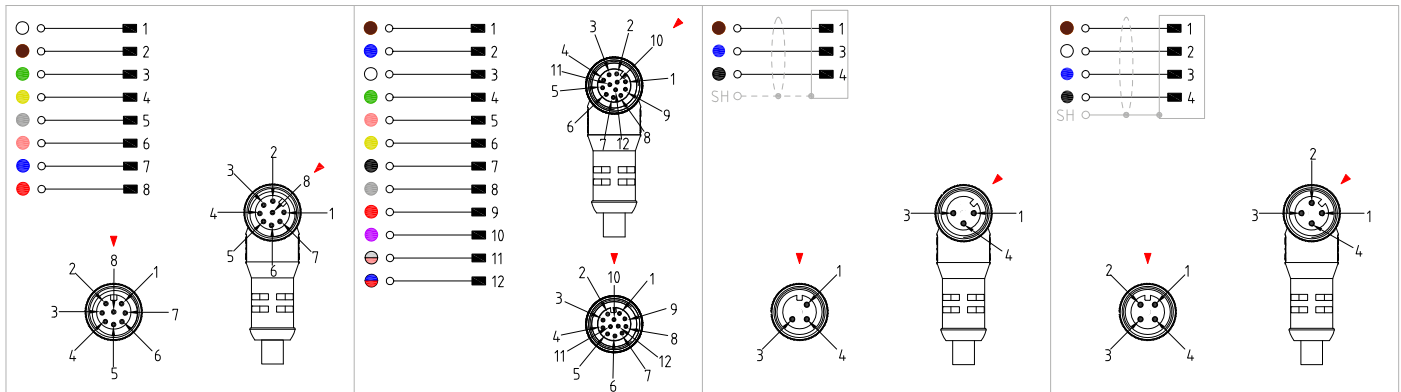
See accessories section

Notes:

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

M12 CIRCULAR CONNECTORS

Moulded cable connectors - A-coded



Product description

Circular connector with moulded cable	Circular connector with moulded cable	Circular connector with moulded cable	Circular connector with moulded cable
IEC 61076-2-101	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
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