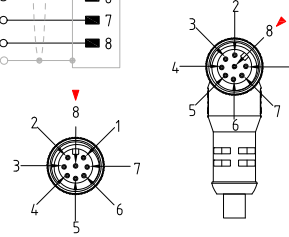
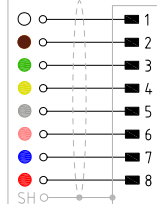
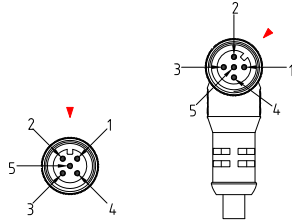
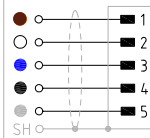
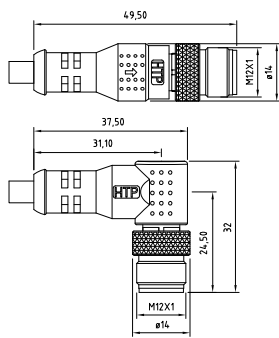




Technical drawing



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

Moulded cable connectors - A-coded



Technical drawing	3 poles	4 poles	5 poles

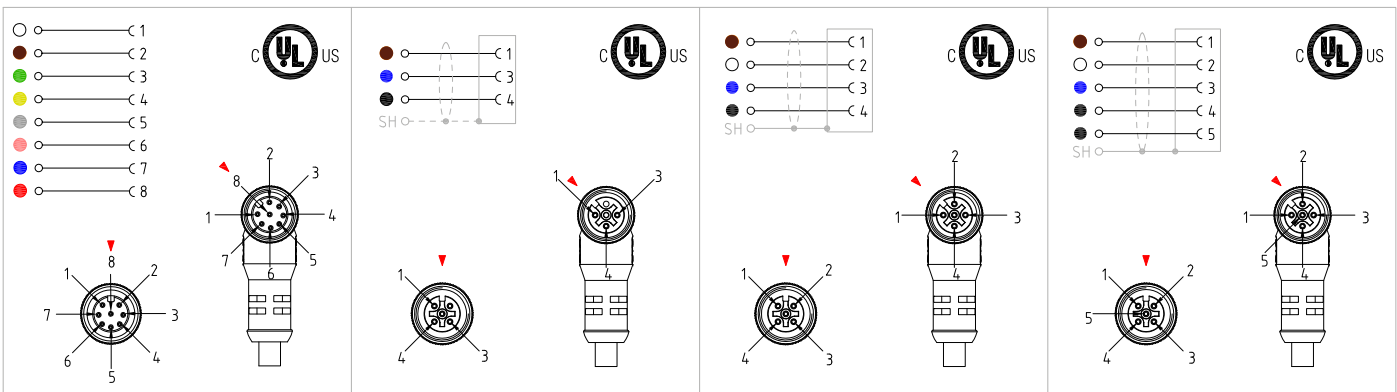
Product description	12FD311Z-UL	12FA311Z-UL	12FD411Z-UL	12FA411Z-UL	12FD511Z-UL	12FA511Z-UL
Connector type	Circular connector with moulded cable		Circular connector with moulded cable		Circular connector with moulded cable	
Conforms to	IEC 61076-2-101 / UL approved		IEC 61076-2-101 / UL approved		IEC 61076-2-101 / UL approved	
Construction type	M12 A-Coded		M12 A-Coded		M12 A-Coded	
Description	Circular connector M12 series, UL approved, with moulded cable		Circular connector M12 series, UL approved, with moulded cable		Circular connector M12 series, UL approved, with moulded cable	
Part number	12FD311Z-UL	12FA311Z-UL	12FD411Z-UL	12FA411Z-UL	12FD511Z-UL	12FA511Z-UL
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	12FD311Z-UL	12FA311Z-UL	12FD411Z-UL	12FA411Z-UL	12FD511Z-UL	12FA511Z-UL
Type of termination	Contacts to crimp wires		Contacts to crimp wires		Contacts to crimp wires	
Contacts material	Brass + Gold flash		Brass + Gold flash		Brass + Gold flash	
Coupling nut type	Knurl round		Knurl round		Knurl round	
M12 coupling nut material	Brass + Nickel plated		Brass + Nickel plated		Brass + Nickel plated	
M12 coupling nut torque	0.4 N*m		0.4 N*m		0.4 N*m	
Rated voltage	250V AC/DC		250V AC/DC		60V AC/DC	
Rated current	4A		4A		4A	
O-ring material	NBR		NBR		NBR	
Cable type	PVC/PVC ULstyle 21179		PVC/PVC ULstyle 21179		PVC/PVC ULstyle 21179	
Cable jacket colour	Black		Black		Black	
No. Conductors / Section	3xAWG22 (0.34mm ²)		4xAWG22 (0.34mm ²)		5xAWG22 (0.34mm 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)		ø5.8mm (±0.3)	
Cable length	1m		1m		1m	

Packaging	12FD311Z-UL	12FA311Z-UL	12FD411Z-UL	12FA411Z-UL	12FD511Z-UL	12FA511Z-UL
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

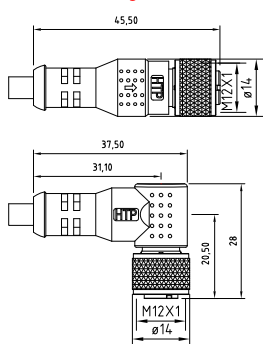
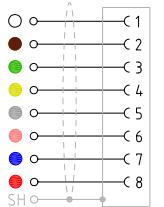

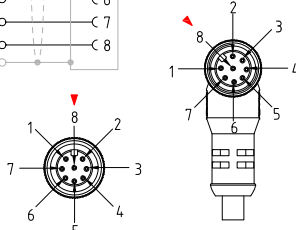


Product description							
Circular connector with moulded cable		Circular connector with moulded cable		Circular connector with moulded cable		Circular connector with moulded cable	
IEC 61076-2-101 / UL approved		IEC 61076-2-101 / UL approved		IEC 61076-2-101 / UL approved		IEC 61076-2-101 / UL approved	
M12 A-Coded		M12 A-Coded		M12 A-Coded		M12 A-Coded	
Circular connector M12 series, UL approved, with moulded cable		Circular connector M12 series, UL approved, TOTALLY SHIELDED with moulded cable		Circular connector M12 series, UL approved, TOTALLY SHIELDED with moulded cable		Circular connector M12 series, UL approved, TOTALLY SHIELDED with moulded cable	
12FD8S1Z-UL	12FA8S1Z-UL	12FJ331Z-UL	12FV331Z-UL	12FJ431Z-UL	12FV431Z-UL	12FJ531Z-UL	12FV531Z-UL
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		3poles		4poles		5poles	
Black		Black		Black		Black	
Technical data							
Contacts to solder wires		Contacts to crimp wires		Contacts to crimp wires		Contacts to crimp wires	
Brass + Gold flash		Brass + Gold flash		Brass + Gold flash		Brass + Gold flash	
Knurl round		Knurl round		Knurl round		Knurl round	
Brass + Nickel plated		Brass + Nickel plated		Brass + Nickel plated		Brass + Nickel plated	
0.4 N*m		0.4 N*m		0.4 N*m		0.4 N*m	
30V AC/DC		250V AC/DC		250V AC/DC		60V AC/DC	
2A		4A		4A		4A	
NBR		NBR		NBR		NBR	
PVC/PVC ULstyle 21179		PVC/PVC ULstyle 21179 SHIELDED		PVC/PVC ULstyle 21179 SHIELDED		PVC/PVC ULstyle 21179 SHIELDED	
Black		Black		Black		Black	
8xAWG24 (0.25mm ²)		3xAWG22 (0.34mm ²)		4xAWG22 (0.34mm ²)		5xAWG22 (0.34mm ²)	
White; Brown; Green; Yellow; Grey; Pink; Blue; Red		Brown; Blue; Black		Brown; White; Blue; Black		Brown; White; Blue; Black; Grey	
ø6mm (±0.3)		ø.n.a. (±0.3)		ø5.5 (±0.3)		ø6mm (±0.3)	
1m		1m		1m		1m	
Packaging							
1 pc / bag		1 pc / bag		1 pc / bag		1 pc / bag	
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

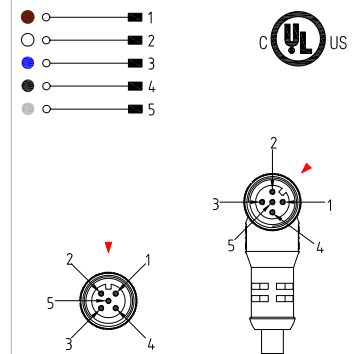
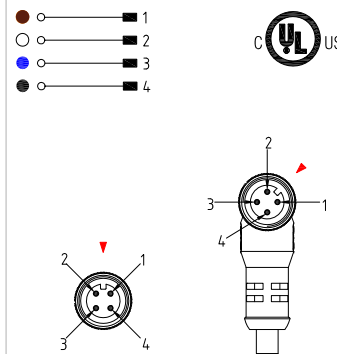
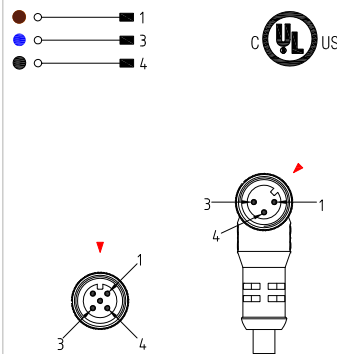
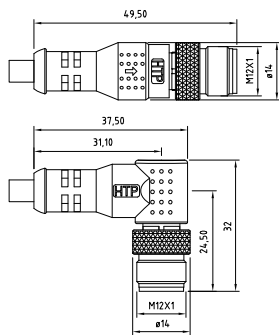
Moulded cable connectors - A-coded



Technical drawing 		  	
Product description			
Connector type	Circular connector with moulded cable		
Conforms to	IEC 61076-2-101 / UL approved		
Construction type	M12 A-Coded		
Description	Circular connector M12 series, UL approved, with moulded cable		
Part number	12FJ8P1Z-UL	12FV8P1Z-UL	
Housing type	Straight 180°		Angled 90°
Cable gland	Moulded cable		
Contacts type	Female		
Number of contacts	8poles		
Housing colour	Black		
Technical data			
Type of termination	Contacts to solder wires		
Contacts material	Brass+Gold flash		
Coupling nut type	Knurl round		
M12 coupling nut material	Brass+Nickel plated		
M12 coupling nut torque	0.4 N*m		
Rated voltage	30V AC/DC		
Rated current	2A		
O-ring material	NBR		
Cable type	PVC/PVC ULstyle 21179 SHIELDED		
Cable jacket colour	Black		
No. Conductors / Section	8xAWG22 (0.25mm ²)		
Conductor colours	White;Brown;Green;Yellow;Grey;Pink;Blue;Red		
Cable diameter	ø n.a. (±0.3)		
Cable length	1m		
Packaging			
Qty/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 / UL approved		IEC 61076-2-101 / UL approved		IEC 61076-2-101 / UL approved	
Construction type	M12 A-Coded		M12 A-Coded		M12 A-Coded	
Description	Circular connector M12 series, UL approved, with moulded cable		Circular connector M12 series, UL approved, with moulded cable		Circular connector M12 series, UL approved, with moulded cable	
Part number	12MD311Z-UL	12MA311Z-UL	12MD411Z-UL	12MA411Z-UL	12MD511Z-UL	12MA511Z-UL
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 ULstyle 21179		PVC/PVC ULstyle 21179		PVC/PVC ULstyle 21179	
Cable jacket colour	Black		Black		Black	
No. Conductors / Section	3xAWG22 (0.34mm ²)		4xAWG22 (0.34mm ²)		5xAWG22 (0.34mm 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)		ø5.8mm (±0.3)	
Cable length	1m		1m		1m	

Packaging

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

See accessories section

Notes:

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

M12 CIRCULAR CONNECTORS

Moulded cable connectors - A-coded



Technical drawing

Product description						
Connector type	Circular connector with moulded cable		Circular connector with moulded cable		Circular connector with moulded cable	
Conforms to	IEC 61076-2-101 / UL approved		IEC 61076-2-101 / UL approved		IEC 61076-2-101 / UL approved	
Construction type	M12 A-Coded		M12 A-Coded		M12 A-Coded	
Description	Circular connector M12 series, UL approved, with moulded cable		Circular connector M12 series, UL approved, TOTALLY SHIELDED with moulded cable		Circular connector M12 series, UL approved, TOTALLY SHIELDED with moulded cable	
Part number	12MD8S1Z-UL	12MA8S1Z-UL	12MJ331Z-UL	12MV331Z-UL	12MJ431Z-UL	12MV431Z-UL
Housing type	Straight 180° / Angled 90°		Straight 180° / Angled 90°		Straight 180° / Angled 90°	
Cable gland	Moulded cable		Moulded cable		Moulded cable	
Contacts type	Male		Male		Male	
Number of contacts	8poles		3poles		4poles	
Housing colour	Black		Black		Black	

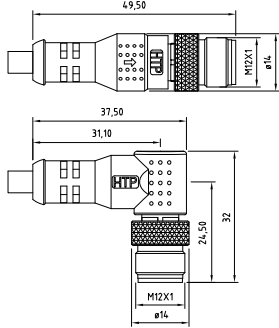
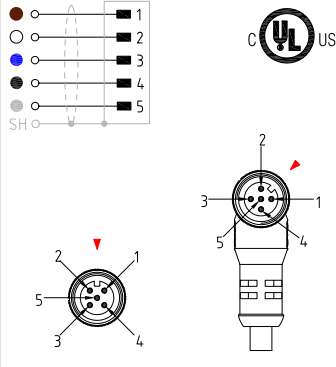
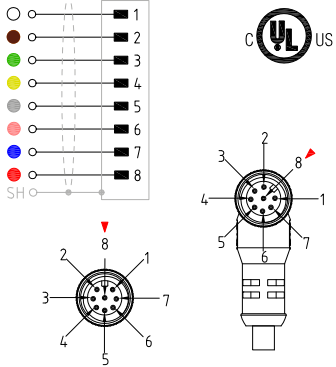
Technical data			
Type of termination	Contacts to solder wires		Contacts to crimp wires
Contacts material	Brass + Gold flash		Brass + Gold flash
Coupling nut type	Knurl round		Knurl round
M12 coupling nut material	Brass + Nickel plated		Brass + Nickel plated
M12 coupling nut torque	0.4 N*m		0.4 N*m
Rated voltage	30V AC/DC		250V AC/DC
Rated current	2A		4A
O-ring material	-		-
Cable type	PVC/PVC ULstyle 21179		PVC/PVC ULstyle 21179 SHIELDED
Cable jacket colour	Black		Black
No. Conductors / Section	8xAWG24 (0.25mm ²)		3xAWG22 (0.34mm ²)
Conductor colours	White; Brown; Green; Yellow; Grey; Pink; Blue; Red		Brown; Blue; Black
Cable diameter	ø6mm (±0.3)		ø5.5mm (±0.3)
Cable length	1m		1m

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



<p>Technical drawing</p> 			
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Product description				
Connector type	Circular connector with moulded cable		Circular connector with moulded cable	
Conforms to	IEC 61076-2-101 / UL approved		IEC 61076-2-101 / UL approved	
Construction type	M12 A-Coded		M12 A-Coded	
Description	Circular connector M12 series, UL approved, TOTALLY SHIELDED with moulded cable		Circular connector M12 series, UL approved, TOTALLY SHIELDED with moulded cable	
Part number	12MJ5F1Z-UL	12MV5F1Z-UL	12MJ8P1Z-UL	12MV8P1Z-UL
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 ULstyle 21179 SHIELDED		PVC/PVC ULstyle 21179 SHIELDED	
Cable jacket colour	Black		Black	
No. Conductors / Section	5xAWG22 (0.34mm ²)		8xAWG24 (0.25mm ²)	
Conductor colours	Brown; White; Blue; Black; Grey		White; Brown; Green; Yellow; Grey; Pink; Blue; Red	
Cable diameter	Ø 6mm (±0.3)		Ø n.a. (±0.3)	
Cable length	1m		1m	

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

Moulded cable connectors - A-coded



Technical drawing

Technical drawing showing dimensions and contact layouts for three connector types. Dimensions include 45.50, 49.50, 37.50, 31.10, 28, 20.50, 24, and 22. Contact layouts are shown for 3, 4, and 5 poles with color-coded wires.

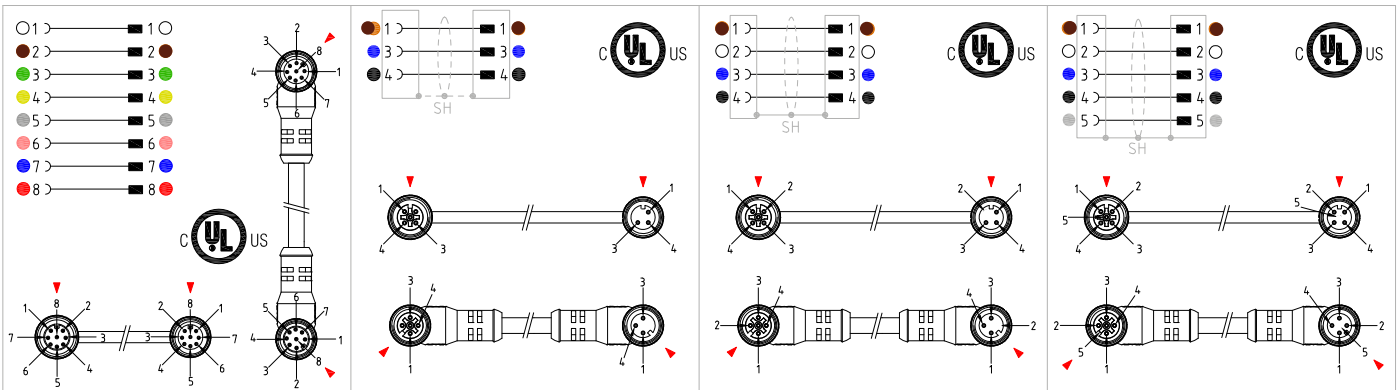
Product description						
Connector type	Circular connector with moulded cable		Circular connector with moulded cable		Circular connector with moulded cable	
Conforms to	IEC 61076-2-101 / UL approved		IEC 61076-2-101 / UL approved		IEC 61076-2-101 / UL approved	
Construction type	M12 A-Coded		M12 A-Coded		M12 A-Coded	
Description	Extension M12-M12 connectors,UL approved, with moulded cable		Extension M12-M12 connectors,UL approved, with moulded cable		Extension M12-M12 connectors,UL approved, with moulded cable	
Part number	12FD3I1Z12MD-UL	12FA3I1Z12MA-UL	12FD4I1Z12MD-UL	12FA4I1Z12MA-UL	12FD5I1Z12MD-UL	12FA5I1Z12MA-UL
Housing type	180°-180°	90°-90°	180°-180°	90°-90°	180°-180°	90°-90°
Cable gland	Moulded cable		Moulded cable		Moulded cable	
Contacts type	Female-Male		Female-Male		Female-Male	
Number of contacts	3poles		4poles		5poles	
Housing colour	Black		Black		Black	

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

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



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

M12 CIRCULAR CONNECTORS

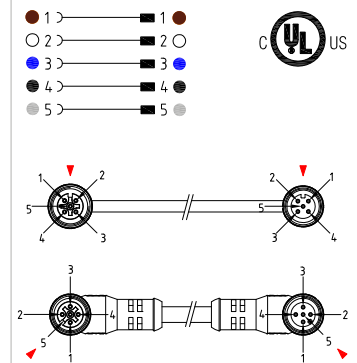
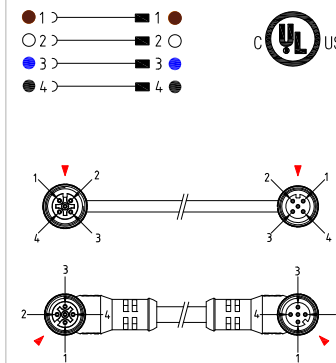
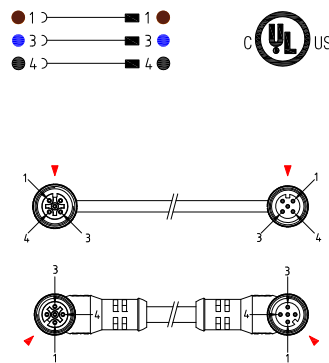
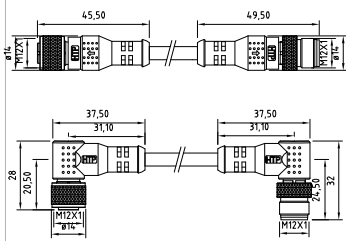
Moulded cable connectors - A-coded



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	5x0.34mm 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 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			



Technical drawing



Product description

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

Technical data

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

Packaging

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

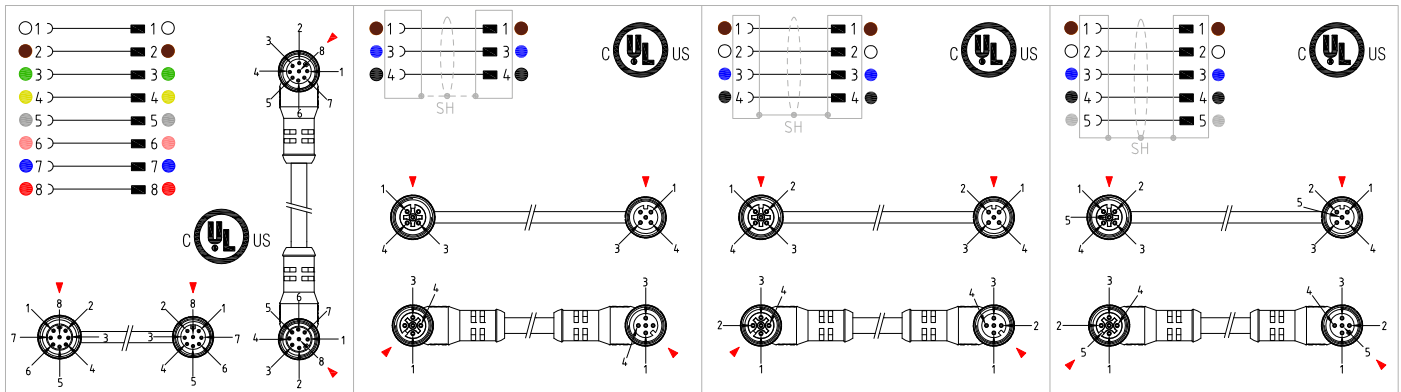
See accessories section

Notes:

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

M12 CIRCULAR CONNECTORS

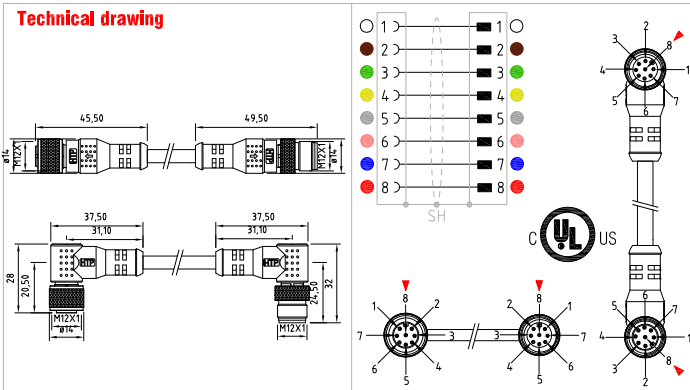
Moulded cable connectors - A-coded



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



Technical drawing



Product description

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

Technical data

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

Packaging

Qty/Bag	1 pc / bag
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Other accessories options

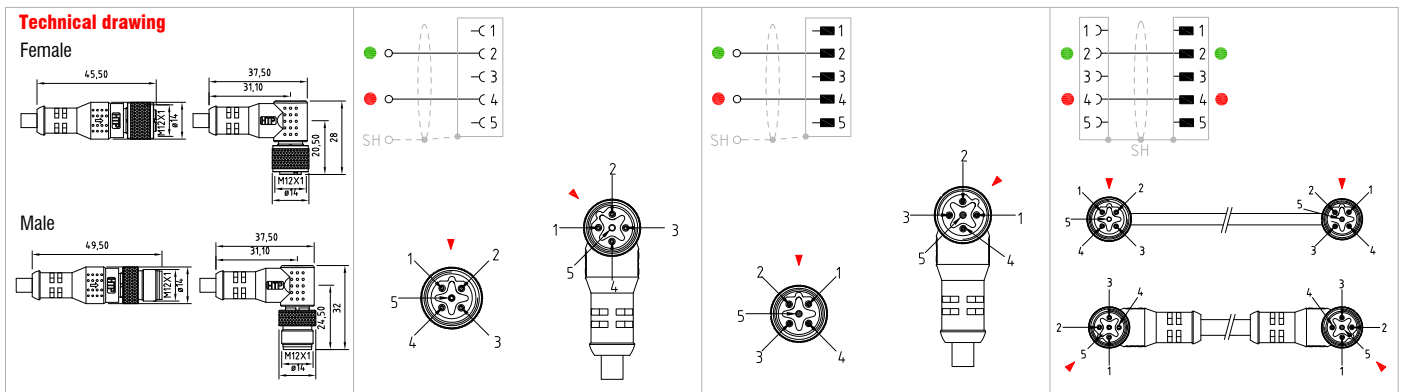
See accessories section

Notes:

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

M12 CIRCULAR CONNECTORS

Moulded cable connectors - B-coded



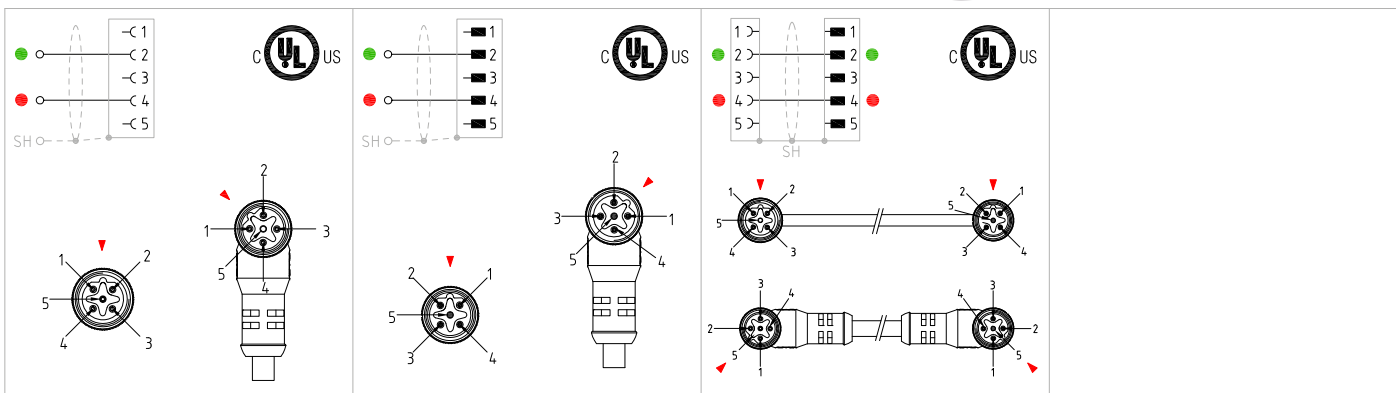
Product description							
Connector type	Circular connector with moulded cable		Circular connector with moulded cable		Circular connector with moulded cable		
Conforms to	IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101		
Construction type	M12 B-Coded		M12 B-Coded		M12 B-Coded		
Description	Circular 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		

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



Product description

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

Technical data

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

Packaging

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

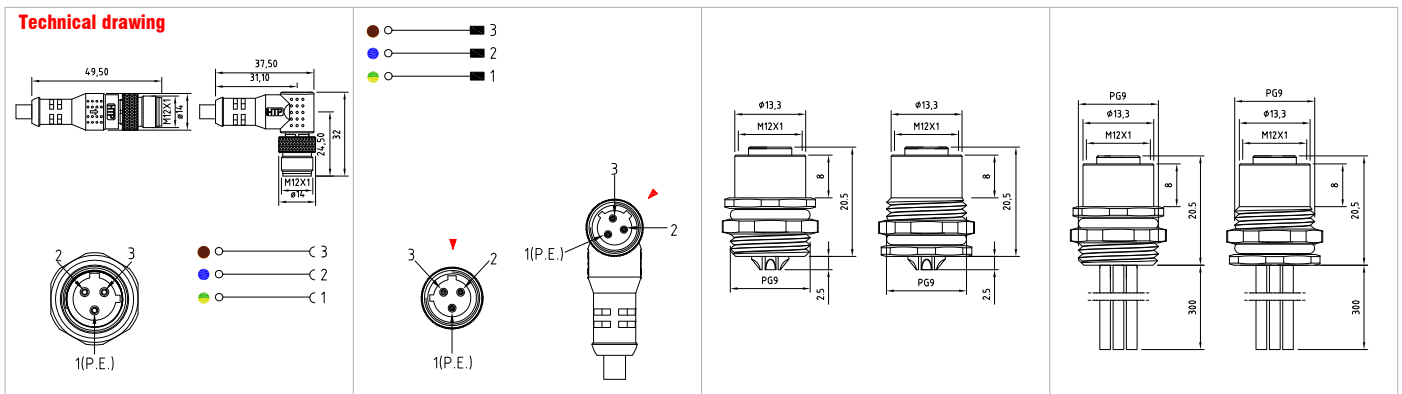
See accessories section

Notes:

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

M12 CIRCULAR CONNECTORS

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



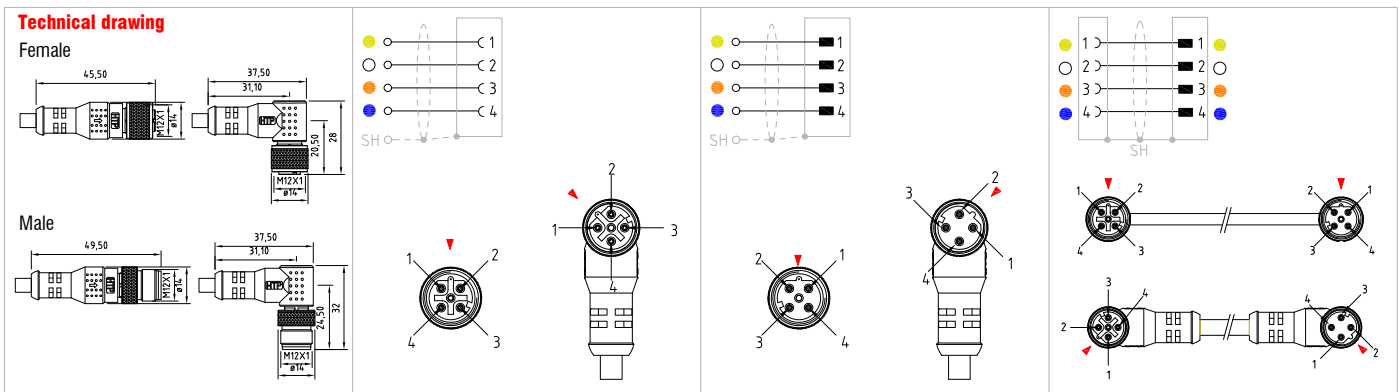
Product description						
Connector type	Circular connector with moulded cable		Circular connector panel mount		Circular connector panel mount	
Conforms to	IEC 61076-2-101		IEC 61076-2-101		IEC 61076-2-101	
Construction type	M12 C-Coded		M12 C-Coded		M12 C-Coded	
Description	Circular connector M12 series,C-coded, with moulded cable		Circular connector M12 series,C-coded, panel mount		Circular connector M12 series,C-coded, panel mount,with PVC soldered wires.	
Part number	C-12MD3011Z	C-12MA3011Z	C-12FP3000-PG9	C-12FR3000-PG9	C-12FP3010C-PG9	C-12FR3010C-PG9
Housing type	Straight 180° / Angled 90°		Frontal panel side	Back panel side	Frontal panel side	Back panel side
Cable gland	Moulded cable		PG9 (fixing thread)		PG9 (fixing thread)	
Contacts type	Male		Female		Female	
Number of contacts	3poles		3poles		3poles	
Housing colour	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		Brass + Nickel plated
M12 coupling nut material	Brass + Nickel plated		Brass + Nickel plated (SW17)
M12 coupling nut torque	0.4 N*m		0.4 N*m
Rated voltage	250V AC/DC		250V AC / DC
Rated current	4A		4A
O-ring material	-		NBR
Cable type	PVC/PVC CEI2022		-
Cable jacket colour	Black		-
No. Conductors / Section	3x0.5mm ²		3 x 0.5mm ²
Conductor colours	Brown; Blue; Yellow/Green		Brown; Blue; Yellow/Green
Cable diameter	ø5mm (±0.3)		-
Cable length	1m		0.3m

Packaging			
Qty/Bag	1 pc / bag		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



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		

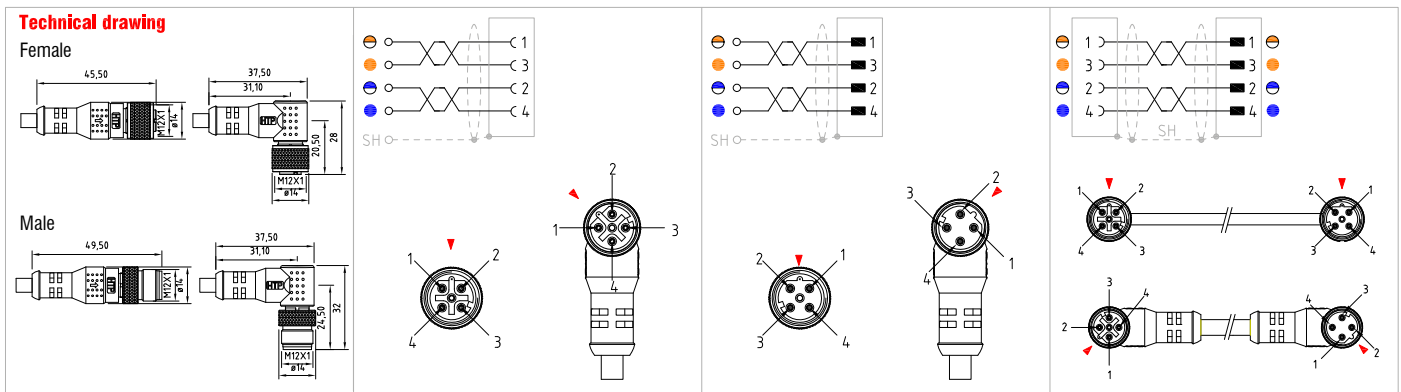
Packaging							
Qty/Bag	1 pc / bag		1 pc / bag		1 pc / bag		

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

Moulded cable connectors - D-coded



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

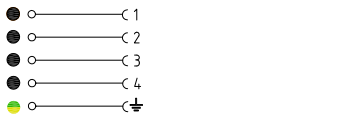
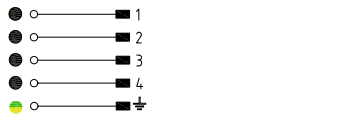
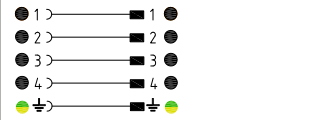
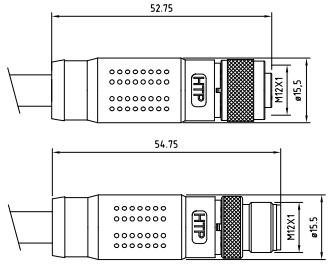
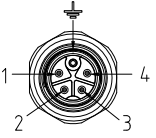
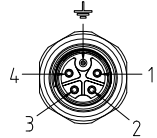
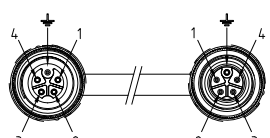
Technical data							
Type of termination	Contacts to crimp wires		Contacts to crimp wires		Contacts to crimp wires		
Contacts material	Brass + Gold flash		Brass + Gold flash		Brass + Gold flash		
Coupling nut type	Knurl round		Knurl round		Knurl round		
M12 coupling nut material	Brass + Nickel plated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

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

Other accessories options
See accessories section

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



Technical drawing				
				
Product description				
Connector type	Circular connector with moulded cable	Circular connector with moulded cable	Circular connector with moulded cable	Circular connector with moulded cable
Conforms to	IEC 61076-2-111	IEC 61076-2-111	IEC 61076-2-111	IEC 61076-2-111
Construction type	M12 K-Coded	M12 K-Coded	M12 K-Coded	M12 K-Coded
Description	Circular connector M12 series, K-coded, with moulded cable	Circular connector M12 series, K-coded, with moulded cable	Circular connector M12 series, K-coded, with moulded cable	Extension M12-M12 connectors, K-coded, with moulded cable
Part number	K-12FD5461Z	K-12MD5461Z	K-12MD5461Z	K-12FD5461Z12MD
Housing type	Straight 180°	Straight 180°	Straight 180°	180°-180°
Cable gland	Moulded cable	Moulded cable	Moulded cable	Moulded cable
Contacts type	Female	Male	Male	Female-Male
Number of contacts	4poles + P.E.	4poles + P.E.	4poles + P.E.	4poles + P.E.
Housing colour	Black	Black	Black	Black
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
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	630V AC	630V AC	630V AC	630V AC
Rated current	12A	12A	12A	12A
O-ring material	NBR	-	-	NBR (on female connector)
Cable type	PVC/PVC CEI2022	PVC/PVC CEI2022	PVC/PVC CEI2022	PVC/PVC CEI2022
Cable jacket colour	Black	Black	Black	Black
No. Conductors / Section	5G1.5mm ²	5G1.5mm ²	5G1.5mm ²	5G1.5mm ²
Conductor colours	Bk 1; Bk 2; Bk 3; Bk 4; Yellow/Green;	Bk 1; Bk 2; Bk 3; Bk 4; Yellow/Green;	Bk 1; Bk 2; Bk 3; Bk 4; Yellow/Green;	Bk 1; Bk 2; Bk 3; Bk 4; Yellow/Green;
Cable diameter	Ø10mm (±0.3)	Ø10mm (±0.3)	Ø10mm (±0.3)	Ø10mm (±0.3)
Cable length	1m	1m	1m	1m
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				

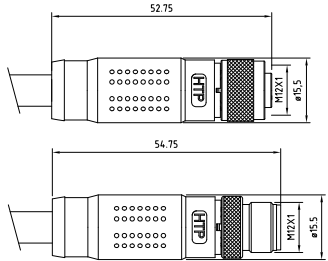
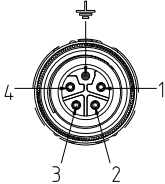
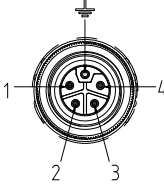
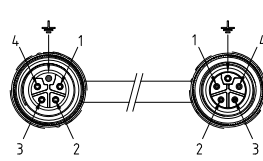
M12 CIRCULAR CONNECTORS

Moulded cable connectors - K-coded



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



Technical drawing	Legend 1	Legend 2	Legend 3
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Product description	Product 1	Product 2	Product 3
Connector type	Circular connector with moulded cable	Circular connector with moulded cable	Circular connector with moulded cable
Conforms to	IEC 61076-2-111	IEC 61076-2-111	IEC 61076-2-111
Construction type	M12 L-Coded	M12 L-Coded	M12 L-Coded
Description	Circular connector M12 series, L-coded, with moulded cable	Circular connector M12 series, L-coded, with moulded cable	Extension M12-M12 connectors, L-coded, with moulded cable
Part number	L-12FD5731Z	L-12MD5731Z	L-12FD5731Z12MD
Housing type	Straight 180°	Straight 180°	180°-180°
Cable gland	Moulded cable	Moulded cable	Moulded cable
Contacts type	Female	Male	Female-Male
Number of contacts	4poles + F.E.	4poles + F.E.	4poles + F.E.
Housing colour	Black	Black	Black

Technical data	Product 1	Product 2	Product 3
Type of termination	Contacts to solder wires	Contacts to solder wires	Contacts to solder wires
Contacts material	Brass + Gold flash	Brass + Gold flash	Brass + Gold flash
Coupling nut type	Knurl round	Knurl round	Knurl round
M12 coupling nut material	Brass + Nickel plated	Brass + Nickel plated	Brass + Nickel plated
M12 coupling nut torque	0.4 N*m	0.4 N*m	0.4 N*m
Rated voltage	63V DC	63V DC	63V DC
Rated current	16A	16A	16A
O-ring material	NBR	-	NBR (on female connector)
Cable type	PVC/PVC CEI2022	PVC/PVC CEI2022	PVC/PVC CEI2022
Cable jacket colour	Black	Black	Black
No. Conductors / Section	5x1.5mm ²	5x1.5mm ²	5x1.5mm ²
Conductor colours	Brown; White; Blue; Black; Grey;	Brown; White; Blue; Black; Grey;	Brown; White; Blue; Black; Grey;
Cable diameter	ø10mm (±0.3)	ø10mm (±0.3)	ø10mm (±0.3)
Cable length	1m	1m	1m

Packaging	Product 1	Product 2	Product 3
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

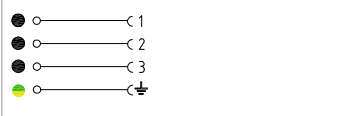
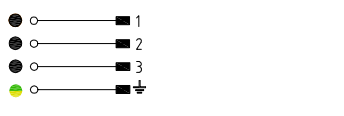
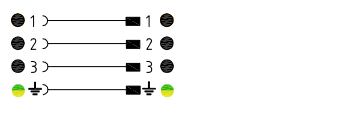
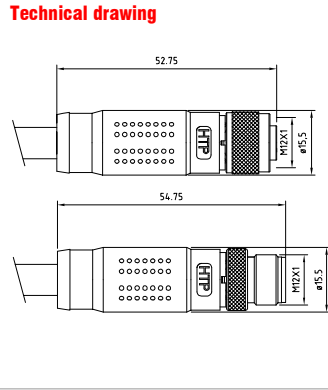
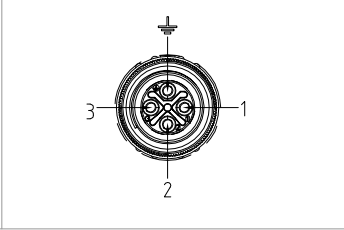
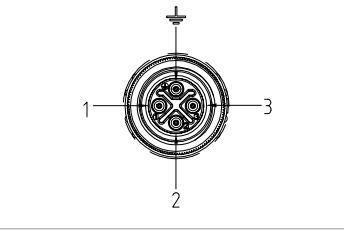
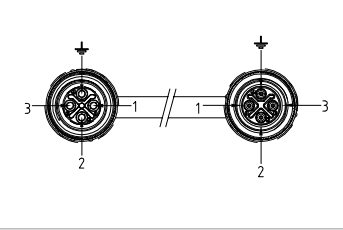
M12 CIRCULAR CONNECTORS

Moulded cable connectors - L-coded



Technical drawing				
Product description				
Connector type	Circular connector with moulded cable	Circular connector with moulded cable	Circular connector with moulded cable	Circular connector with moulded cable
Conforms to	IEC 61076-2-111	IEC 61076-2-111	IEC 61076-2-111	IEC 61076-2-111
Construction type	M12 L-Coded	M12 L-Coded	M12 L-Coded	M12 L-Coded
Description	Circular connector M12 series,L-coded, TOTALLY SHIELDED with moulded cable	Circular connector M12 series,L-coded, TOTALLY SHIELDED with moulded cable	Circular connector M12 series,L-coded, TOTALLY SHIELDED with moulded cable	Extension M12-M12 connectors,L-coded, TOTALLY SHIELDED with moulded cable
Part number	L-12FJ5701Z-K6-IS	L-12MJ5701Z-K6-IS	L-12FJ5701Z12MJ	
Housing type	Straight 180°	Straight 180°	180°-180°	
Cable gland	Moulded cable	Moulded cable	Moulded cable	
Contacts type	Female	Male	Female-Male	
Number of contacts	4poles + F.E.	4poles + F.E.	4poles + F.E.	
Housing colour	Black	Black	Black	
Technical data				
Type of termination	Contacts to solder wires	Contacts to solder wires	Contacts to solder wires	
Contacts material	Brass+Gold flash	Brass+Gold flash	Brass+Gold flash	
Coupling nut type	Knurl round	Knurl round	Knurl round	
M12 coupling nut material	Brass+Nickel plated	Brass+Nickel plated	Brass+Nickel plated	
M12 coupling nut torque	0.4 N*m	0.4 N*m	0.4 N*m	
Rated voltage	63V DC	63V DC	63V DC	
Rated current	16A	16A	16A	
O-ring material	NBR	-	NBR (on female connector)	
Cable type	PVC/PVC CEI2022 SHIELDED	PVC/PVC CEI2022 SHIELDED	PVC/PVC CEI2022 SHIELDED	
Cable jacket colour	Black	Black	Black	
No. Conductors / Section	5x1.5mm ²	5x1.5mm ²	5x1.5mm ²	
Conductor colours	Brown; White; Blue; Black; Grey;	Brown; White; Blue; Black; Grey;	Brown; White; Blue; Black; Grey;	
Cable diameter	ø10.4mm (±0.3)	ø10.4mm (±0.3)	ø10.4mm (±0.3)	
Cable length	1m	1m	1m	
Packaging				
Qty/Bag	1 pc / bag	1 pc / bag	1 pc / bag	
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	Circular connector with moulded cable
Conforms to	IEC 61076-2-111	IEC 61076-2-111	IEC 61076-2-111	IEC 61076-2-111
Construction type	M12 S-Coded	M12 S-Coded	M12 S-Coded	M12 S-Coded
Description	Circular connector M12 series, S-coded, with moulded cable	Circular connector M12 series, S-coded, with moulded cable	Circular connector M12 series, S-coded, with moulded cable	Extension M12-M12 connectors, S-coded, with moulded cable
Part number	S-12FD4461Z	S-12MD4461Z	S-12MD4461Z12MD	
Housing type	Straight 180°	Straight 180°	180°-180°	
Cable gland	Moulded cable	Moulded cable	Moulded cable	
Contacts type	Female	Male	Female-Male	
Number of contacts	3poles + P.E.	3poles + P.E.	3poles + P.E.	
Housing colour	Black	Black	Black	
Technical data				
Type of termination	Contacts to crimp wires	Contacts to crimp wires	Contacts to crimp wires	Contacts to crimp wires
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	630V AC	630V AC	630V AC	630V AC
Rated current	12A	12A	12A	12A
O-ring material	NBR	-	NBR (on female connector)	
Cable type	PVC/PVC CEI2022	PVC/PVC CEI2022	PVC/PVC CEI2022	PVC/PVC CEI2022
Cable jacket colour	Black	Black	Black	Black
No. Conductors / Section	4G1.5mm ²	4G1.5mm ²	4G1.5mm ²	4G1.5mm 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;	Black 1; Black 2; Black 3; Yellow/Green;
Cable diameter	Ø10mm (±0.3)	Ø10mm (±0.3)	Ø10mm (±0.3)	Ø10mm (±0.3)
Cable length	1m	1m	1m	1m
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				

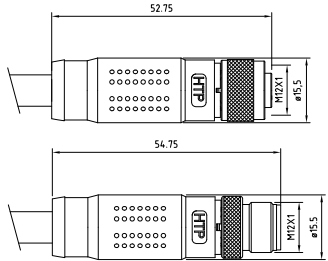
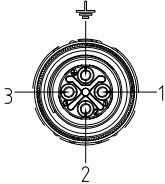
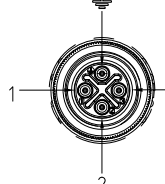
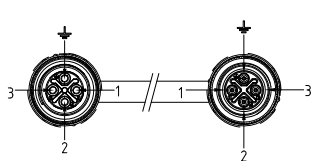
M12 CIRCULAR CONNECTORS

Moulded cable connectors - S-coded



Technical drawing				
Product description				
Connector type	Circular connector with moulded cable	Circular connector with moulded cable	Circular connector with moulded cable	Circular connector with moulded cable
Conforms to	IEC 61076-2-111	IEC 61076-2-111	IEC 61076-2-111	IEC 61076-2-111
Construction type	M12 S-Coded	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	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-12FJ4351Z	S-12MJ4351Z	S-12FJ4351Z12MJ	S-12FJ4351Z12MJ
Housing type	Straight 180°	Straight 180°	180°-180°	180°-180°
Cable gland	Moulded cable	Moulded cable	Moulded cable	Moulded cable
Contacts type	Female	Male	Female-Male	Female-Male
Number of contacts	3poles + P.E.	3poles + P.E.	3poles + P.E.	3poles + P.E.
Housing colour	Black	Black	Black	Black
Technical data				
Type of termination	Contacts to crimp wires	Contacts to crimp wires	Contacts to crimp wires	Contacts to crimp wires
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	630V AC	630V AC	630V AC	630V AC
Rated current	12A	12A	12A	12A
O-ring material	NBR	-	-	NBR (on female connector)
Cable type	PVC/PVC CEI2022 SHIELDED	PVC/PVC CEI2022 SHIELDED	PVC/PVC CEI2022 SHIELDED	PVC/PVC CEI2022 SHIELDED
Cable jacket colour	Black	Black	Black	Black
No. Conductors / Section	4G1.5mm ²	4G1.5mm ²	4G1.5mm ²	4G1.5mm 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;	Black 1; Black 2; Black 3; Yellow/Green;
Cable diameter	ø10mm (±0.3)	ø10mm (±0.3)	ø10mm (±0.3)	ø10mm (±0.3)
Cable length	1m	1m	1m	1m
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				



Technical drawing	● ○ — 1 ● ○ — 2 ● ○ — 3 ● ○ — ⚡	● ○ — 1 ● ○ — 2 ● ○ — 3 ● ○ — ⚡	● ○ — 1 ● ○ — 2 ● ○ — 3 ● ○ — ⚡
			

Product description

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

Technical data

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

Packaging

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

See accessories section

Notes:

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

M12 CIRCULAR CONNECTORS

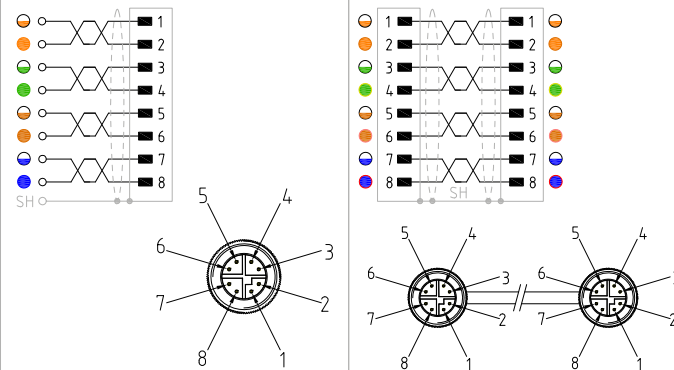
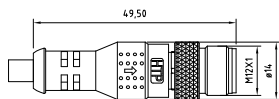
Moulded cable connectors - S-coded



Technical drawing				
Product description				
Connector type	Circular connector with moulded cable	Circular connector with moulded cable	Circular connector with moulded cable	Circular connector with moulded cable
Conforms to	IEC 61076-2-111 / UL approved	IEC 61076-2-111 / UL approved	IEC 61076-2-111 / UL approved	IEC 61076-2-111 / UL approved
Construction type	M12 S-Coded	M12 S-Coded	M12 S-Coded	M12 S-Coded
Description	Circular connector M12 series, S-coded, UL, TOTALLY SHIELDED with moulded cable	Circular connector M12 series, S-coded, UL, TOTALLY SHIELDED with moulded cable	Extension M12-M12 connectors, S-coded, UL, TOTALLY SHIELDED with moulded cable	Extension M12-M12 connectors, S-coded, UL, TOTALLY SHIELDED with moulded cable
Part number	S-12FJ4811Z-K6-UL	S-12MJ4811Z-K6-UL	S-12FJ4811Z12MD-UL	
Housing type	Straight 180°	Straight 180°	180°-180°	
Cable gland	Moulded cable	Moulded cable	Moulded cable	
Contacts type	Female	Male	Female-Male	
Number of contacts	3poles + P.E.	3poles + P.E.	3poles + P.E.	
Housing colour	Black	Black	Black	
Technical data				
Type of termination	Contacts to crimp wires	Contacts to crimp wires	Contacts to crimp wires	
Contacts material	Brass+Gold flash	Brass+Gold flash	Brass+Gold flash	
Coupling nut type	Knurl round	Knurl round	Knurl round	
M12 coupling nut material	Brass+Nickel plated	Brass+Nickel plated	Brass+Nickel plated	
M12 coupling nut torque	0.4 N*m	0.4 N*m	0.4 N*m	
Rated voltage	630V AC	630V AC	630V AC	
Rated current	12A	12A	12A	
O-ring material	NBR	-	NBR (on female connector)	
Cable type	PVC/PVC ULstyle 20234 SHIELDED	PVC/PVC ULstyle 20234 SHIELDED	PVC/PVC ULstyle 20234 SHIELDED	
Cable jacket colour	Orange RAL2003	Orange RAL2003	Orange RAL2003	
No. Conductors / Section	4G1.5mm ²	4G1.5mm ²	4G1.5mm 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				



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