

M12-A Circular Connector

30/60/125/250V 1.5/2/4A

Technical characteristics

	3-pole	4-pole	5-pole	8-pole	12-pole
Rated current (40°C)	4A	4A	4A	2A	1.5A
Rated voltage	250V	250V	125V	60V	30V
Rated impulse voltage	2500V	2500V	1500V	800V	800V
Pollution degree	3	3	3	3	3
Overvoltage categorie	II	II	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking system	screw M12x1	screw M12x1	screw M12x1	screw M12x1	screw M12x1
Termination	screw/solder	screw/solder	screw/solder	screw/solder	solder
Wire gauge	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.75mm ² (max.AWG18)	max.0.5mm ² max.AWG20)	max.0.25mm ² max.AWG24)
Cable outlet	4-6,6-8 mm	4-6,6-8 mm	4-6,6-8 mm	6-8 mm	6-8 mm
Degree of protection	IP67	IP67	IP67	IP67	IP67
Mechanical operation	> 100	> 100	> 100	> 100	> 100
Limiting temperature	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C	-40°C ...+85°C
Material group	III	III	III	III	III
Material of contact	copper alloy	copper alloy	copper alloy	copper alloy	copper alloy
Contact plating	Au	Au	Au	Au	Au
Insulating material	PA	PA	PA	PA	PA
Material of housing	PA/PBT	PA/PBT	PA/PBT	PA/PBT	PA/PBT

Straight cable connectors

Female cable connector,
plastic locking system,
screw clamp connection



A-Code



3pin

4pin

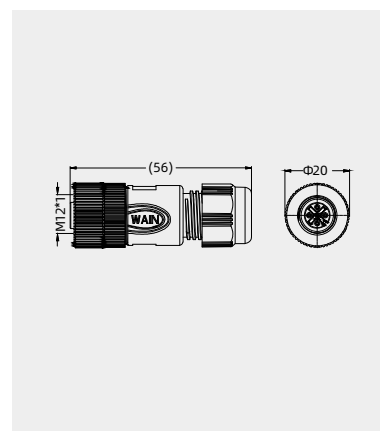
5pin

8pin



12pin

Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12P-F03A-T-D6	163 003 421 3101
	6-8 mm	M12P-F03A-T-D8	163 003 421 3102
4	4-6 mm	M12P-F04A-T-D6	163 004 421 3101
	6-8 mm	M12P-F04A-T-D8	163 004 421 3102
5	4-6 mm	M12P-F05A-T-D6	163 005 421 3101
	6-8 mm	M12P-F05A-T-D8	163 005 421 3102
8	6-8 mm	M12P-F08A-T-D8	163 008 424 3002



M12-A

Female cable connector,
plastic locking system,solder



A-Code



3pin

4pin

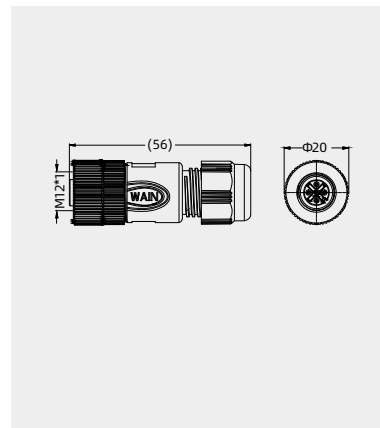
5pin

8pin



12pin

Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12P-FST03A-T-D6	163 003 423 3500
	6-8 mm	M12P-FST03A-T-D8	163 003 423 3501
4	4-6 mm	M12P-FST04A-T-D6	163 004 423 3500
	6-8 mm	M12P-FST04A-T-D8	163 004 423 3501
5	4-6 mm	M12P-FST05A-T-D6	163 005 423 3500
	6-8 mm	M12P-FST05A-T-D8	163 005 423 3501
8	4-6 mm	M12P-FST08A-T-D6	163 008 423 3502
	6-8 mm	M12P-FST08A-T-D8	163 008 423 3503
12	6-8 mm	M12P-FST12A-T-D8	163 012 423 3003



Hexagonal driver



Description	Designation	Order No.
for 8 pin screw clamp connection	SW-1.27*47	198 001 003 0016