

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,
metal locking system,
screw clamp connection
Recommended use

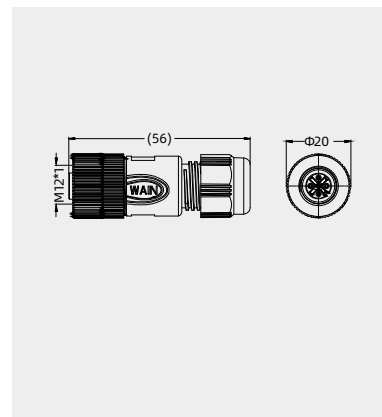


A-Code



12pin

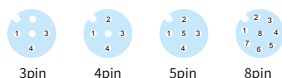
Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12-F03A-T-D6	163 003 421 3001
	6-8 mm	M12-F03A-T-D8	163 003 421 3002
4	4-6 mm	M12-F04A-T-D6	163 004 421 3001
	6-8 mm	M12-F04A-T-D8	163 004 421 3002
5	4-6 mm	M12-F05A-T-D6	163 005 421 3001
	6-8 mm	M12-F05A-T-D8	163 005 421 3002
8	6-8 mm	M12-F08A-T-D8	163 008 421 3002



Female cable connector,
metal locking system,solder
Recommended use

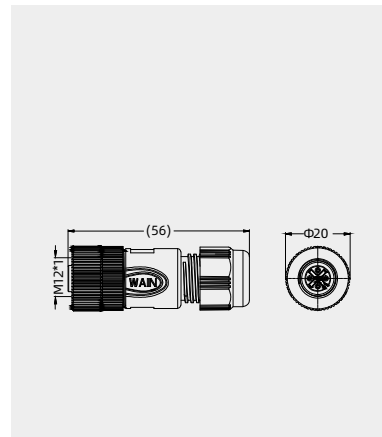


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12pin

Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12-FST03A-T-D6	163 003 423 3504
	6-8 mm	M12-FST03A-T-D8	163 003 423 3505
4	4-6 mm	M12-FST04A-T-D6	163 004 423 3508
	6-8 mm	M12-FST04A-T-D8	163 004 423 3509
5	4-6 mm	M12-FST05A-T-D6	163 005 423 3508
	6-8 mm	M12-FST05A-T-D8	163 005 423 3509
8	4-6 mm	M12-FST08A-T-D6	163 008 423 3510
	6-8 mm	M12-FST08A-T-D8	163 008 423 3501
12	6-8 mm	M12-FST12A-T-D8	163 012 423 3002



Hexagonal driver



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