

M12-A Circular Connector

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

Technical characteristics

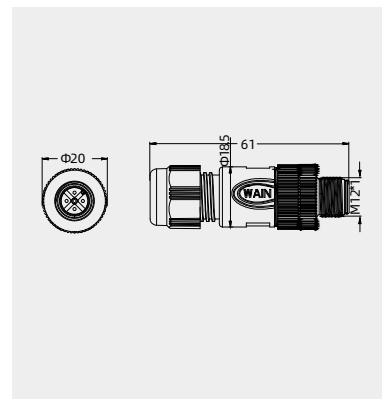
	3-pole	4-pole	5-pole	8-pole	12-pole
Rated current (40°C)	4A	4A	4A	2A	1.5A
Rated voltage	250V	250V	125V	60V	30V
Rated impulse voltage	2500V	2500V	1500V	800V	800V
Pollution degree	3	3	3	3	3
Overvoltage categorie	II	II	II	II	II
Contact resistance	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ	≤ 10 mΩ
Connector locking 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

Male cable connector,
metal locking system,
screw clamp connection
Recommended use



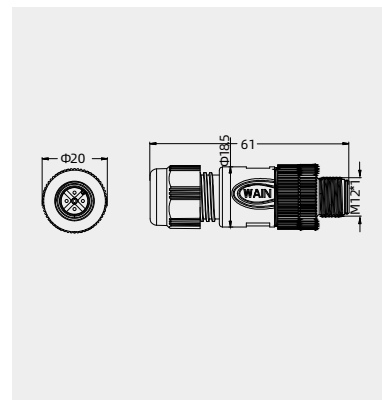
Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12-M03A-T-D6	163 003 411 3001
	6-8 mm	M12-M03A-T-D8	163 003 411 3002
4	4-6 mm	M12-M04A-T-D6	163 004 411 3001
	6-8 mm	M12-M04A-T-D8	163 004 411 3002
5	4-6 mm	M12-M05A-T-D6	163 005 411 3001
	6-8 mm	M12-M05A-T-D8	163 005 411 3002
8	6-8 mm	M12-M08A-T-D8	163 008 411 3002



Male cable connector,
metal locking system,solder
Recommended use



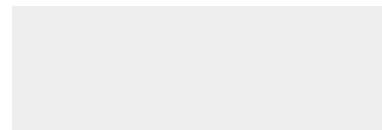
Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12-MST03A-T-D6	163 003 413 3504
	6-8 mm	M12-MST03A-T-D8	163 003 413 3505
4	4-6 mm	M12-MST04A-T-D6	163 004 413 3501
	6-8 mm	M12-MST04A-T-D8	163 004 413 3510
5	4-6 mm	M12-MST05A-T-D6	163 005 413 3508
	6-8 mm	M12-MST05A-T-D8	163 005 413 3509
8	4-6 mm	M12-MST08A-T-D6	163 008 413 3500
	6-8 mm	M12-MST08A-T-D8	163 008 413 3501
12	6-8 mm	M12-MST12A-T-D8	163 012 413 3002



Hexagonal driver



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



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	4-6,6-8mm	4-6,6-8mm	4-6,6-8mm	6-8,8-10mm	6-8,8-10mm
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	II	II	II	II	II
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	zinc diecasting nickel plated, brass nickel plated	zinc diecasting nickel plated, brass nickel plated	zinc diecasting nickel plated, brass nickel plated	zinc diecasting nickel plated, brass nickel plated	zinc diecasting nickel plated, brass nickel plated

Straight cable connectors, shielded

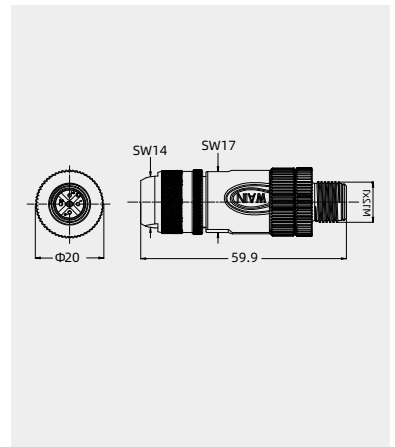
Male cable connector, shielded,
screw clamp connection,
version with shielding ring,
Recommended use



A-Code



Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12-M03A-T-D6-SH	163 003 414 2002
	6-8 mm	M12-M03A-T-D8-SH	163 003 414 2003
	8-10 mm	M12-M03A-T-D10-SH	163 003 411 2500
4	4-6 mm	M12-M04A-T-D6-SH	163 004 411 2001
	6-8 mm	M12-M04A-T-D8-SH	163 004 411 2002
	8-10 mm	M12-M04A-T-D10-SH	163 004 411 2503
5	4-6 mm	M12-M05A-T-D6-SH	163 005 411 2001
	6-8 mm	M12-M05A-T-D8-SH	163 005 411 2002
	8-10 mm	M12-M05A-T-D10-SH	163 005 411 2502
8	6-8 mm	M12-M08A-T-D8-SH	163 008 411 2002
	8-10 mm	M12-M08A-T-D10-SH	163 008 411 2500



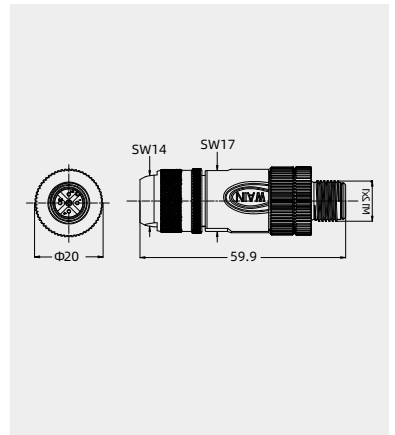
Male cable connector, shielded,
solder, version with shielding ring,
Recommended use



A-Code



Contacts	Cable outlet	Designation	Order No.
3	4-6 mm	M12-MST03A-T-D6-SH	163 003 413 2500
	6-8 mm	M12-MST03A-T-D8-SH	163 003 413 2501
4	4-6 mm	M12-MST04A-T-D6-SH	163 004 413 2001
	6-8 mm	M12-MST04A-T-D8-SH	163 004 413 2002
5	4-6 mm	M12-MST05A-T-D6-SH	163 005 413 2001
	6-8 mm	M12-MST05A-T-D8-SH	163 005 413 2002
8	4-6 mm	M12-MST08A-T-D6-SH	163 008 413 2500
	6-8 mm	M12-MST08A-T-D8-SH	163 008 413 2001
12	6-8 mm	M12-MST12A-T-D8-SH	163 012 413 2003
	8-10 mm	M12-MST12A-T-D10-SH	163 012 411 2500



Hexagonal driver



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