# M12-A Circular Connector

## 60/125/250V 2/4A

## Technical characteristics

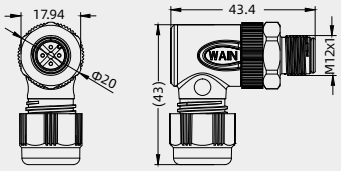
| | 3-pole | 4-pole | 5-pole | 8-pole |
|---|---|---|---|---|
| Rated current (40°C ) | 4A | 4A | 4A | 2A |
| Rated voltage | 250V | 250V | 125V | 60V |
| Rated impulse voltage | 2500V | 2500V | 1500V | 800V |
| Pollution degree | 3 | 3 | 3 | 3 |
| Overvoltage categorie | II | II | II | II |
| Contact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

## Angled cable connectors

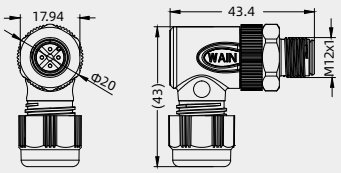
### Male cable connector, stainless steel locking system, screw clamp connection

A-Code

| Contacts | Cable outlet | Designation | Order No. |
|---|---|---|---|
| 3 | 4-6 mm | M12S-M03A-S-D6 | 163 003 414 1001 |
| | 6-8 mm | M12S-M03A-S-D8 | 163 003 514 1001 |
| 4 | 4-6 mm | M12S-M04A-S-D6 | 163 004 511 3201 |
| | 6-8 mm | M12S-M04A-S-D8 | 163 004 511 3202 |
| 5 | 4-6 mm | M12S-M05A-S-D6 | 163 005 511 3201 |
| | 6-8 mm | M12S-M05A-S-D8 | 163 005 511 3202 |




### Male cable connector, stainless steel locking system, solder

A-Code

| Contacts | Cable outlet | Designation | Order No. |
|---|---|---|---|
| 3 | 4-6 mm | M12S-MST03A-S-D6 | 163 003 513 3504 |
| | 6-8 mm | M12S-MST03A-S-D8 | 163 003 513 3505 |
| 4 | 4-6 mm | M12S-MST04A-S-D6 | 163 004 513 3504 |
| | 6-8 mm | M12S-MST04A-S-D8 | 163 004 513 3505 |
| 5 | 4-6 mm | M12S-MST05A-S-D6 | 163 005 513 3504 |
| | 6-8 mm | M12S-MST05A-S-D8 | 163 005 513 3505 |
| 8 | 4-6 mm | M12S-MST08A-S-D6 | 163 008 513 3504 |
| | 6-8 mm | M12S-MST08A-S-D8 | 163 008 513 3505 |