

## M12-A Circular Connector

60/125/250V 2/4A

## Technical characteristics

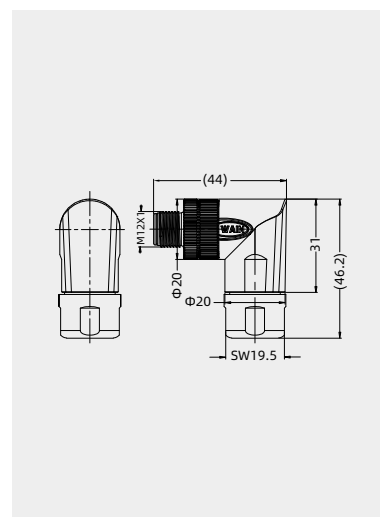
|                          | 3-pole                              | 4-pole                              | 5-pole                              | 8-pole                              |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 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 <sup>2</sup> (max.AWG18) | max.0.75mm <sup>2</sup> (max.AWG18) | max.0.75mm <sup>2</sup> (max.AWG18) | max.0.75mm <sup>2</sup> (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           | III                                 | III                                 | III                                 | III                                 |
| 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      | zinc diecasting nickel plated       | zinc diecasting nickel plated       | zinc diecasting nickel plated       | zinc diecasting nickel plated       |

## Angled cable connectors, shielded

Male angled connector, shielded,  
screw clamp connection,  
version with shielding ring



| Contacts | Cable outlet | Designation      | Order No.        |
|----------|--------------|------------------|------------------|
| 3        | 4-6 mm       | M12-M03A-S-D6-SH | 163 003 414 2001 |
|          | 6-8 mm       | M12-M03A-S-D8-SH | 163 003 514 2001 |
| 4        | 4-6 mm       | M12-M04A-S-D6-SH | 163 004 511 2001 |
|          | 6-8 mm       | M12-M04A-S-D8-SH | 163 004 511 2002 |
| 5        | 4-6 mm       | M12-M05A-S-D6-SH | 163 005 511 2001 |
|          | 6-8 mm       | M12-M05A-S-D8-SH | 163 005 511 2002 |



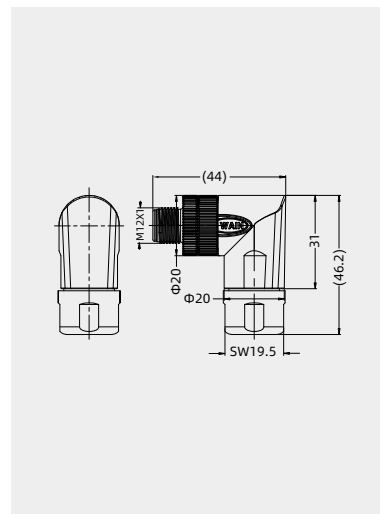
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Male angled connector, shielded,  
solder, version with shielding ring



| Contacts | Cable outlet | Designation        | Order No.        |
|----------|--------------|--------------------|------------------|
| 3        | 4-6 mm       | M12-MST03A-S-D6-SH | 163 003 513 2500 |
|          | 6-8 mm       | M12-MST03A-S-D8-SH | 163 003 513 2501 |
| 4        | 4-6 mm       | M12-MST04A-S-D6-SH | 163 004 513 2500 |
|          | 6-8 mm       | M12-MST04A-S-D8-SH | 163 004 513 2501 |
| 5        | 4-6 mm       | M12-MST05A-S-D6-SH | 163 005 513 2500 |
|          | 6-8 mm       | M12-MST05A-S-D8-SH | 163 005 513 2501 |
| 8        | 4-6 mm       | M12-MST08A-S-D6-SH | 163 008 513 2500 |
|          | 6-8 mm       | M12-MST08A-S-D8-SH | 163 008 513 2501 |



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