

## M12-A Circular Connector

60/125/250V 2/4A

## Technical characteristics

|                          | 4-pole                              | 5-pole                              | 8-pole                              | 12-pole                             |
|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Rated current (40°C )    | 4A                                  | 4A                                  | 2A                                  | 1.5A                                |
| Rated voltage            | 250V                                | 125V                                | 60V                                 | 60V                                 |
| Rated impulse voltage    | 2500V                               | 1500V                               | 800V                                | 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                               | screw                               | screw                               | screw                               |
| Termination              | solder,single-strand wires          | solder,single-strand wires          | solder,single-strand wires          | solder,single-strand wires          |
| Wire gauge               | max.0.75mm <sup>2</sup> (max.AWG18) | max.0.75mm <sup>2</sup> (max.AWG18) | max.0.34mm <sup>2</sup> (max.AWG22) | max.0.14mm <sup>2</sup> (max.AWG26) |
| Cable outlet             | -                                   | -                                   | -                                   | -                                   |
| 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      | zinc diecasting nickel plated       | zinc diecasting nickel plated       | zinc diecasting nickel plated       | zinc diecasting nickel plated       |

## Socket

Female panel mount connector  
with single wires, /0.25mm<sup>2</sup>/length  
0.2m

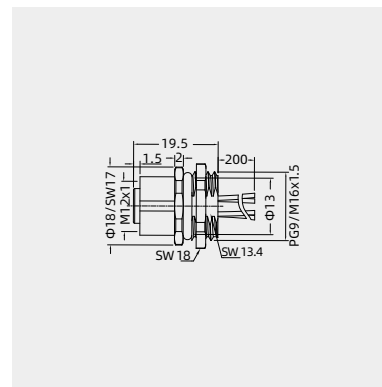


## A-Code



| Contacts | screw   | Designation           | Order No.        |
|----------|---------|-----------------------|------------------|
| 4        | PG9     | M12-F04A-BK-PG9-W0.25 | 163 004 302 4001 |
|          | M16x1.5 | M12-F04A-BK-M16-W0.25 | 163 004 302 4021 |
| 5        | PG9     | M12-F05A-BK-PG9-W0.25 | 163 005 302 4001 |
|          | M16x1.5 | M12-F05A-BK-M16-W0.25 | 163 005 302 4021 |
| 8        | PG9     | M12-F08A-BK-PG9-W0.25 | 163 008 302 4001 |
|          | M16x1.5 | M12-F08A-BK-M16-W0.25 | 163 008 302 4021 |
| 12       | PG9     | M12-F12A-BK-PG9-W0.14 | 163 012 302 4001 |
|          | M16x1.5 | M12-F12A-BK-M16-W0.14 | 163 012 302 4002 |

Customized cable length upon request



Female panel mount connector, solder  
PG9/M16x1.5



## A-Code



| Contacts | screw   | Designation       | Order No.        |
|----------|---------|-------------------|------------------|
| 4        | PG9     | M12-F04A-BK-PG9-C | 163 004 323 1001 |
|          | M16x1.5 | M12-F04A-BK-M16-C | 163 004 323 1021 |
| 5        | PG9     | M12-F05A-BK-PG9-C | 163 005 323 1001 |
|          | M16x1.5 | M12-F05A-BK-M16-C | 163 005 323 1021 |
| 8        | PG9     | M12-F08A-BK-PG9-C | 163 008 324 1002 |
|          | M16x1.5 | M12-F08A-BK-M16-C | 163 008 302 1011 |
| 12       | PG9     | M12-F12A-BK-PG9-C | 163 012 323 1500 |
|          | M16x1.5 | M12-F12A-BK-M16-C | 163 012 323 1501 |

