

## M12-B Circular Connector

125/250V 4A

## Technical characteristics

|                          | 4-pole                          | 5-pole                          |
|--------------------------|---------------------------------|---------------------------------|
| Rated current(40°C )     | 4A                              | 4A                              |
| Rated voltage            | 250V                            | 125V                            |
| Rated impulse voltage    | 2500V                           | 1500V                           |
| Pollution degree         | 3                               | 3                               |
| Overvoltage categorie    | II                              | II                              |
| Contact resistance       | ≤ 10 mΩ                         | ≤ 10 mΩ                         |
| Connector locking system | screw M12x1                     | screw M12x1                     |
| Termination              | single-strand wires             | single-strand wires             |
| Wire gauge               | max.0.75mm <sup>2</sup> (AWG18) | max.0.75mm <sup>2</sup> (AWG18) |
| Cable outlet             | -                               | -                               |
| Degree of protection     | IP67                            | IP67                            |
| Mechanical operation     | > 100                           | > 100                           |
| Limiting temperature     | -40°C ...+85°C                  | -40°C ...+85°C                  |
| Material group           | II                              | II                              |
| Material of contact      | copper alloy                    | copper alloy                    |
| Contact plating          | Au                              | Au                              |
| Insulating material      | PA                              | PA                              |
| Material of housing      | zinc diecasting nickel plated   | zinc diecasting nickel plated   |

## Socket

## Male panel mount connector

with single wires, 0.25mm<sup>2</sup>  
length 0.2m

Recommended use



B-Code



## Male panel mount connector, solder

Recommended use



B-Code



## Male panel mount connector, dip solder



B-Code



| Contacts | Thread  | Designation           | Order No.        |
|----------|---------|-----------------------|------------------|
| 4        | PG9     | M12-M04B-BK-PG9-W0.25 | 163 004 301 4004 |
|          | M16x1.5 | M12-M04B-BK-M16-W0.25 | 163 004 301 4005 |
| 5        | PG9     | M12-M05B-BK-PG9-W0.25 | 163 005 301 4002 |
|          | M16x1.5 | M12-M05B-BK-M16-W0.25 | 163 005 301 4003 |

Customized cable length upon request

| Contacts | Thread  | Designation       | Order No.        |
|----------|---------|-------------------|------------------|
| 4        | PG9     | M12-M04B-BK-PG9-C | 163 004 313 1002 |
|          | M16x1.5 | M12-M04B-BK-M16-C | 163 004 313 1003 |
| 5        | PG9     | M12-M05B-BK-PG9-C | 163 005 313 1002 |
|          | M16x1.5 | M12-M05B-BK-M16-C | 163 005 313 1003 |

| Contacts | Thread  | Designation       | Order No.        |
|----------|---------|-------------------|------------------|
| 4        | PG9     | M12-M04B-BK-PG9-D | 163 004 314 1003 |
|          | M16x1.5 | M12-M04B-BK-M16-D | 163 004 314 1004 |
| 5        | PG9     | M12-M05B-BK-PG9-D | 163 005 314 1003 |
|          | M16x1.5 | M12-M05B-BK-M16-D | 163 005 314 1004 |

