# SACC-BP-F-M12/M16-7-THR-PPI - Housing screw connection

1233780

https://www.phoenixcontact.com/us/products/1233780

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Housing screw connection, Socket, M12-Push-pull internal locking, THR solder connection, Item is lead-free in accordance with RoHS II without Exemption 6c (Pb < 0.1 %)

## Your advantages

- Easy device integration, thanks to mechanical port screw connections with threaded fastening
- Flexible PCB assembly: two-piece connectors for wave and THR soldering

## Commercial data

| | |
|---|---|
| Item number | 1233780 |
| Packing unit | 20 pc |
| Minimum order quantity | 20 pc |
| Sales key | AB23 |
| Product key | ABQABF |
| GTIN | 4063151335892 |
| Weight per piece (including packing) | 15.4 g |
| Weight per piece (excluding packing) | 14.188 g |
| Customs tariff number | 74198090 |
| Country of origin | DE |

## Technical data

### Notes

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|---|---|
| Notes on operation | The electrical and mechanical data specified assume that the connector pair is correctly locked and mounted. If the connector is unlocked and if there is a danger of contamination, the connector must be sealed using a protective cap > IP54. Influences arising from litz wires, cables or PCB assembly must also be taken into consideration. |
| Order information: | Lock nut is included in the scope of delivery |

### Product properties

| | |
|---|---|
| Product type | Circular connector housing |
| Thread type | M12 |

### Connection data

| | |
|---|---|
| Connection method | THR solder connection |
| Tightening torque | 1.5 ... 2 Nm |

### Material specifications

| | |
|---|---|
| Material | Brass, nickel-plated |
| Material | Brass, nickel-plated (Locking nut) |
| Flammability rating according to UL 94 | V0 |
| Seal material | FKM |
| | FKM |
| Material for screw connection | Brass, nickel-plated |

### Connector

Connection 1

| | |
|---|---|
| Head design | Socket |
| Head thread type | M12 |
| Head locking type | Push-pull internal locking |

### Mechanical properties

Mechanical data

| | |
|---|---|
| Insertion/withdrawal cycles | > 100 |

### Environmental and real-life conditions

Ambient conditions

| | |
|---|---|
| Degree of protection (when plugged in) | IP67 (correctly plugged in and locked) |
| Degree of protection | IP67 (correctly plugged in and locked) |
| | IP67, when in locked state |
| | IP65, when in locked state |
| Ambient temperature (operation) (male connector/female | -25 °C ... 85 °C (Plug / socket) |

| | |
|---|---|
| connector) | -40 °C ... 85 °C (without mechanical actuation) |
| UL Type Rating | Type 4 (indoor use only) |

## Standards and regulations

| | |
|---|---|
| Standard designation | M12 circular connector |
| Standards/specifications | based on IEC 61076-2-010 |

## Mounting

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|---|---|
| Mounting type | Rear mounting (M16 x 1) |
| Assembly note | Spacing between the top edge of the PCB and the back of the front plate: 7 mm |

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27440224 |
| ECLASS-15.0 | 27440224 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC003556 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 39121400 |

## Environmental product compliance

EU RoHS

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|---|---|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |

China RoHS

| | |
|---|---|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|---|---|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |




Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com