

# SACC-M 8MS-4PCON - Connector



1506765

<https://www.phoenixcontact.com/us/products/1506765>

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Connector, Universal, 4-position, Plug straight M8, coding: A, Piercecon<sup>®</sup> fast connection, knurl material: Brass, nickel-plated, external cable diameter 3 mm ... 5 mm

## Your advantages

- Safe use in the field, thanks to a high degree of protection
- Piercecon<sup>®</sup> connection: maximum contact density in a connector that can be assembled

## Commercial data

|                                      |                   |
|--------------------------------------|-------------------|
| Item number                          | 1506765           |
| Packing unit                         | 1 pc              |
| Minimum order quantity               | 1 pc              |
| Sales key                            | BF32              |
| Product key                          | BF2BGA            |
| Catalog page                         | Page 69 (PC-2011) |
| GTIN                                 | 4017918892685     |
| Weight per piece (including packing) | 17.4 g            |
| Weight per piece (excluding packing) | 16.4 g            |
| Customs tariff number                | 85366990          |
| Country of origin                    | DE                |

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## Technical data

### Notes

|         |  |
|---------|--|
| General | <b>NOTE:</b> Observe the permissible bending radii when laying conductors, since the degree of protection may be put in jeopardy if the bending forces are too high. Alleviate mechanical loads upstream of the connector, e.g. by using cable ties. |
|---------|--|

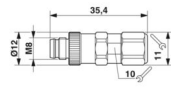
### Product properties

|                      |                                 |
|----------------------|---------------------------------|
| Product type         | Circular connector (cable-side) |
| Sensor type          | Universal                       |
| Number of positions  | 4                               |
| No. of cable outlets | 1                               |
| Shielded             | no                              |
| Coding               | A                               |

### Insulation characteristics

|                      |    |
|----------------------|----|
| Overvoltage category | II |
| Degree of pollution  | 3  |

### Dimensions

|                        |  |
|------------------------|--|
| Dimensional drawing    |  |
| Length                 | 35.4 mm  |
| Wrench size, union nut | 11 mm  |

### External dimensions

|                  |               |
|------------------|---------------|
| Outside diameter | 3 mm ... 5 mm |
|------------------|---------------|

### Housing

|                  |       |
|------------------|-------|
| Diameter housing | 12 mm |
|------------------|-------|

### Material specifications

|  |                      |
|--|----------------------|
| Flammability rating according to UL 94 | V0                   |
| Seal material                          | NBR                  |
| Material of grip body                  | PA 6.6               |
| Contact material                       | CuZn                 |
| Contact surface material               | Ni/Au                |
| Contact carrier material               | PA 6.6               |
| Material for screw connection          | Brass, nickel-plated |

### Connection data

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## Conductor connection

|                              |  |
|------------------------------|--|
| Connection method            | Piercecon® fast connection                               |
| Connection cross section     | 0.14 mm <sup>2</sup> ... 0.38 mm <sup>2</sup> (flexible) |
| Connection cross section AWG | 22 ... 26 (flexible)                                     |
| Tightening torque            | 0.5 Nm (Pressure nut with coupling sleeve)               |
|                              | 0.8 Nm (Connector with coupling sleeve)                  |
|                              | 0.2 Nm (M8 knurl)  |

## Pin assignment

|   |        |
|---|--------|
| Contact   Color (signal designation)   Contact (optional) | 1 = BN |
|   | 3 = BU |
|   | 4 = BK |

## Electrical properties

|                                |          |
|--------------------------------|----------|
| Contact resistance             | ≤ 3 mΩ   |
| Insulation resistance          | ≥ 100 MΩ |
| Nominal voltage U <sub>N</sub> | 30 V AC  |
|                                | 30 V DC  |
| Nominal current I <sub>N</sub> | 4 A      |

## Mechanical properties

### Mechanical data

|                             |       |
|-----------------------------|-------|
| Insertion/withdrawal cycles | ≥ 100 |
|-----------------------------|-------|

## Connector

### Connection 1

|                   |          |
|-------------------|----------|
| Head design       | Plug     |
| Head cable outlet | straight |
| Head thread type  | M8       |
| Coding            | A        |

## Cable/line

|                      |           |
|----------------------|-----------|
| Signal type/category | Universal |
|----------------------|-----------|

## Environmental and real-life conditions

### Ambient conditions

|                                 |                                  |
|---------------------------------|----------------------------------|
| Degree of protection            | IP68                             |
| Ambient temperature (operation) | -25 °C ... 85 °C (Plug / socket) |

## Standards and regulations

### M8

|                          |                 |
|--------------------------|-----------------|
| Standard designation     | M8 connector    |
| Standards/specifications | IEC 61076-2-104 |

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27440102 |
| ECLASS-12.0 | 27440116 |
| ECLASS-13.0 | 27440116 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002635 |
|----------|----------|

### UNSPSC

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

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## Environmental product compliance

|            |   |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
|            | No hazardous substances above threshold values          |

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