

1436343

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Sensor/actuator flush-type connector, socket, 8-pos., M12, A-coded, rear/screw mounting with Pg9 thread, with straight solder connection, plastic version

### Commercial data

| Item number                          | 1436343             |
|--------------------------------------|---------------------|
| Packing unit                         | 20 pc               |
| Minimum order quantity               | 20 pc               |
| Product key                          | ABQELL              |
| Catalog page                         | Page 263 (C-2-2013) |
| GTIN                                 | 4046356438315       |
| Weight per piece (including packing) | 7.21 g              |
| Weight per piece (excluding packing) | 7.21 g              |
| Customs tariff number                | 85366990            |
| Country of origin                    | DE                  |



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### Technical data

#### Notes

| coni<br>is ur<br>coni<br>Influ | ne electrical and mechanical data specified assume that the nnector pair is correctly locked and mounted. If the connector unlocked and if there is a danger of contamination, the nnector must be sealed using a protective cap > IP54. Pluences arising from litz wires, cables or PCB assembly must so be taken into consideration. |
|--------------------------------|--|
|--------------------------------|--|

### Mounting

| Mounting type | Rear mounting Pg9 With locking nut |
|---------------|------------------------------------|
| Assembly note | With locking nut                   |

## Product properties

| Product type        | Circular connectors (device side) |
|---------------------|-----------------------------------|
| Number of positions | 8                                 |
| Shielded            | no                                |
| Coding              | A                                 |
| Thread type         | M12                               |
|                     |                                   |

#### Data management status

| Article revision | 00 |
|------------------|----|
|------------------|----|

#### Insulation characteristics

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

#### Material specifications

| Color                                  | black  |
|--|--------|
| Flammability rating according to UL 94 | НВ     |
| Seal material                          | Viton  |
| Contact material                       | CuZn   |
| Contact surface material               | Au     |
| Contact carrier material               | PA 6.6 |
| Material for screw connection          | PA 6.6 |

### Electrical properties

| Rated surge voltage            | 0.8 kV    |
|--------------------------------|-----------|
| Contact resistance             | ≤ 3 mΩ    |
| Insulation resistance          | ≥ 100 MΩ  |
| Nominal voltage U <sub>N</sub> | 30 V      |
| Nominal current I <sub>N</sub> | 2 A       |
| Max. conductor resistance      | 57.6 mΩ/m |



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#### Connection data

#### Conductor connection

| Connection method       | Wave soldering                     |
|-------------------------|------------------------------------|
| Contact connection type | Socket                             |
| Conductor cross section | 0.25 mm²                           |
| Tightening torque       | 1.25 Nm 1.5 Nm (Installation-side) |

#### Mechanical properties

#### Mechanical data

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

#### Connector

#### Connection 1

| Head design       | Socket   |
|-------------------|----------|
| Head cable outlet | straight |
| Head thread type  | M12      |
| Coding            | A        |

#### Cable/line

| Wire diameter incl. insulation  | 1.15 mm ±0.07 mm                            |
|---------------------------------|---|
| Cable cross section             | 0.25 mm <sup>2</sup>                        |
| Conductor structure signal line | 14x 0.15 mm                                 |
| Thickness, insulation           | 0.21 mm                                     |
| Nominal voltage, cable          | 300 V                                       |
| Test voltage, cable             | 2000 V AC                                   |
| Cable resistance                | ≤ 57.6 mΩ/m                                 |
| Cable insulation resistance     | ≥ 20 MΩ*km                                  |
| Ambient temperature (operation) | -40 °C 85 °C (cable, fixed installation)    |
|                                 | -25 °C 85 °C (Cable, flexible installation) |

### Environmental and real-life conditions

### Ambient conditions

| egree of protection             | IP67  |
|---------------------------------|---|
|                                 | IP67  |
| Ambient temperature (operation) | -25 °C 85 °C (Plug / socket)                |
|                                 | -40 °C 85 °C (without mechanical actuation) |
|                                 | -25 °C 85 °C (Cable, flexible installation) |
|                                 | -40 °C 85 °C (cable, fixed installation)    |

### Standards and regulations



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#### M12

| Standard designation     | M12 connector   |
|--------------------------|-----------------|
| Standards/specifications | IEC 61076-2-101 |

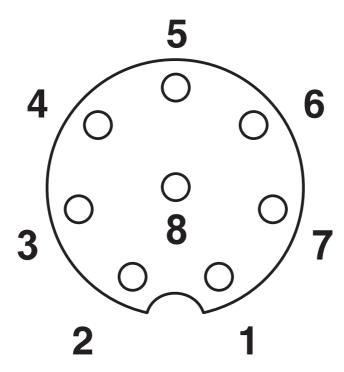


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# Drawings





Pin assignment M12 socket, 8-pos., A-coded, view female side



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## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/1436343



**cULus Recognized**Approval ID: E221474-20070307



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## Classifications

UNSPSC 21.0

#### **ECLASS**

| _    |             |          |  |
|------|-------------|----------|--|
|      | ECLASS-11.0 | 27440102 |  |
|      | ECLASS-12.0 | 27440116 |  |
|      | ECLASS-13.0 | 27440116 |  |
| ETIM |             |          |  |
|      | ETIM 9.0    | EC002635 |  |
| UNS  | SPSC        |          |  |

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## Environmental product compliance

#### EU RoHS

| Fulfills EU RoHS substance requirements | Yes   |
|---|---|
| Exemption                               | 6(c)  |
| China RoHS                              |   |
| Environment friendly use period (EFUP)  | EFUP-50   |
|   | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |
| EU REACH SVHC                           |   |
| REACH candidate substance (CAS No.)     | Lead(CAS: 7439-92-1)  |
| SCIP                                    | 3922222a-a6ac-44f0-bd8f-5975cda34058  |

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PHOENIX CONTACT GmbH & Co. KG Flachsmarktstraße 8 D-32825 Blomberg +49 (0) 5235-3 00 info@phoenixcontact.com