

1436783

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Device connector rear mounting, 12-position, Pin, straight, M12-SPEEDCON, coding: A, Rear mounting, Pg9, Solder pins, this item is undergoing a smooth changeover, lead-free alternative in accordance with RoHS II without exception 6c (Pb < 0.1%) possible on request in advance

Your advantages

- · Easy PCB assembly: one-piece connectors for wave soldering
- · All standard pin assignments and codings for signal, data, and power transmission with a uniform design-in design
- · SPEEDCON fast locking system reduces cabling times
- · For high transmission reliability: optional shield connection to the housing by means of shield contact

Commercial data

| Item number | 1436783 |
|--------------------------------------|---------------------|
| Packing unit | 20 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB26 |
| Product key | ABQEGD |
| Catalog page | Page 247 (C-2-2013) |
| GTIN | 4046356438797 |
| Weight per piece (including packing) | 14.85 g |
| Weight per piece (excluding packing) | 13.356 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |



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Technical data

Notes

| 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 |

Mounting

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

Product properties

| Product type | Circular connectors (device side) |
|----------------------------|-----------------------------------|
| Number of positions | 12 |
| Shielded | yes |
| Coding | A |
| Thread type | M12 |
| Insulation characteristics | |

| Degree of pollution 3 | |
|-----------------------|--|

Dimensions

| Length of the solder pin | 6 mm |
|--------------------------|------|
| | 6 mm |

Material specifications

| Flammability rating according to UL 94 | V0 |
|--|------------------------------|
| Seal material | FKM |
| Contact material | CuZn |
| Contact surface material | Au |
| Contact carrier material | PA 6.6 |
| Material for screw connection | Zinc die-cast, nickel-plated |

Electrical properties

| Rated surge voltage | 0.8 kV |
|--------------------------------|----------|
| Contact resistance | ≤ 3 mΩ |
| Insulation resistance | ≥ 100 MΩ |
| Nominal voltage U _N | 30 V |
| Nominal current I _N | 1.5 A |



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Connection data

Conductor connection

| Connection method | Solder pins |
|-------------------------|-------------------------------|
| Contact connection type | Pin |
| Tightening torque | 2 Nm 3 Nm (Installation-side) |

Mechanical properties

Mechanical data

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

Connector

Connection 1

| Head design | Pin |
|-------------------|----------|
| Head cable outlet | straight |
| Head thread type | M12 |
| Head locking type | SPEEDCON |
| Coding | A |

Cable/line

| Ambient temperature (operation) | -40 °C 85 °C (cable, fixed installation) |
|---------------------------------|---|
| | -25 °C 85 °C (Cable, flexible installation) |

Environmental and real-life conditions

Ambient conditions

| Degree of protection | IP67 (When plugged in) |
|---------------------------------|---|
| | IP65 (When plugged in) |
| | IP65/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

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

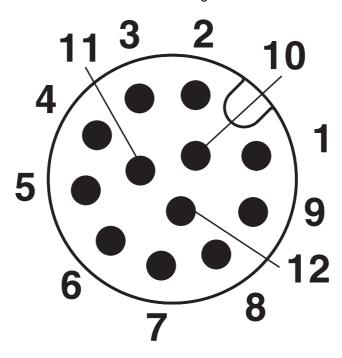


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Drawings

Schematic diagram



Pin assignment M12 male connector, 12-pos., male side view



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1436783

| UL Recognized Approval ID: E118976-20100522 | | | | | |
|---|--|--------------------------------|--------------------------------|-------------------|-------------------------------|
| | | Nominal voltage U _N | Nominal current I _N | Cross section AWG | Cross section mm ² |
| | | 30 V | 1.5 A | 26 | - |

| c 911 us | cULus Recognized Approval ID: E221474-20140616 | | | | |
|-----------------|--|-----------------------|--------------------------------|-------------------|-------------------------------|
| | | Nominal voltage U_N | Nominal current I _N | Cross section AWG | Cross section mm ² |
| | | 30 V | 1.5 A | - | - |



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Classifications

| | \sim | 1 / 0 | C |
|---|--------|-------------------|---|
| _ | | \perp A \circ | |

| | ECLASS-13.0 | 27440110 |
|----|-------------|----------|
| Ε٦ | ГІМ | |
| | ETIM 9.0 | EC003568 |
| IU | NSPSC | |
| | UNSPSC 21.0 | 39121400 |



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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 | 8ec6621b-4363-4145-bc2e-3036fc0c99db |

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