

SACCBP-M12MS-6CON-M16/5,0-970 - Device connector rear mounting

1429088

<https://www.phoenixcontact.com/us/products/1429088>

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Device connector rear mounting, 8-position, SANTOPRENE halogen-free, black RAL 9005, shielded, Pin, straight, M12, coding: A, on free cable end, Rear mounting, M16 x 1.5, Cable connection, cable length: 5 m, 0.25 mm², Alternative product in accordance with RoHS II without Exemption 6c (Pb < 0.1 %) item no.: 1239594

Your advantages

- Preassembled with cables in various standard lengths for immediate use
- Customer-specific assemblies and cable lengths can be supplied
- Sealed on the cable side for optimum tightness of seal
- Cable designs for all common networks and fieldbuses
- For high transmission safety: shield connection to the housing with optional EMC nut

Commercial data

| | |
|--------------------------------------|--------------------|
| Item number | 1429088 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Product key | ABQDGA |
| Catalog page | Page 324 (PC-2011) |
| GTIN | 4046356323048 |
| Weight per piece (including packing) | 422.1 g |
| Weight per piece (excluding packing) | 222.22 g |
| Country of origin | DE |

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Technical data

Notes

| | |
|---------|--|
| General | 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. |
| General | Lock nut is included in the scope of delivery |

Mounting

| | |
|-----------------------|---------------------------------------|
| Mounting type | Rear mounting M16 x 1.5 With flat nut |
| Assembly instructions | With flat nut |

Product properties

| | |
|----------------------|-----------------------------------|
| Product type | Circular connectors (device side) |
| Number of positions | 8 |
| No. of cable outlets | 1 |
| Shielded | yes |
| Coding | A |
| Thread type | M12 |

Insulation characteristics

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

Material specifications

| | |
|--|-------------------------|
| Flammability rating according to UL 94 | V0 |
| Seal material | FKM |
| Contact material | CuZn |
| Contact surface material | Ni/Au |
| Contact carrier material | PA 6.6 |
| Material for screw connection | Brass, nickel-plated |
| Outer sheath, material | SANTOPRENE halogen-free |

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 | 2 A |

Connection data

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Conductor connection

| | |
|-------------------------|-----------------------------------|
| Connection method | Cable connection |
| Contact connection type | Pin |
| Conductor cross section | 0.25 mm ² |
| 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 |
| Coding | A |


Connection 2

| | |
|-------------|----------------|
| Head design | free cable end |
|-------------|----------------|

Cable/line

| | |
|--------------|-----|
| Cable length | 5 m |
|--------------|-----|

VARAN [970]

| | |
|---------------------------------|--|
| Dimensional drawing |  |
| Cable weight | 81 kg/km |
| Number of positions | 6 |
| Shielded | yes |
| Cable type | VARAN [970] |
| Conductor structure | 1x2xAWG22/19 + 1x4xAWG24/19 |
| Conductor structure signal line | 19x 0.13 mm |
| AWG signal line | 24 |
| Conductor cross section | 4x 0.25 mm ² (Signal line) 2x 0.38 mm ² (Power supply) |
| Wire diameter incl. insulation | 1.35 mm (Signal line) |

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| | |
|---|---|
| | 1.5 mm (Power supply) |
| External cable diameter | 7.80 mm ±0.2 mm |
| Outer sheath, material | SANTOPRENE halogen-free |
| External sheath, color | black RAL 9005 |
| Conductor material | Bare Cu litz wires |
| Material, filler | Yarn |
| Material wire insulation | PP |
| Single wire, color | brown, blue, white/orange, white/green, green, orange |
| Type of pair shielding | Tinned copper braided shield, 95 % covering |
| Overall twist | 1 star quad and 2 wires with 2 fillers |
| Max. conductor resistance | 77 Ω/m (Data cable) |
| Insulation resistance | 5 GΩ*km (Data cable) |
| Wave impedance | 100 Ω ±15 % |
| Working capacitance | 50 nF (Data cable) |
| Nominal voltage, cable | 125 V (Data cable) |
| | 48 V (Power supply) |
| Test voltage | 2000 V (Power supply) |
| | max. 700 V AC (Data cable) |
| Smallest bending radius, fixed installation | ≥ 93 mm |
| Smallest bending radius, movable installation | ≥ 93 mm |
| Max. bending cycles | 3000000 |
| Halogen-free | in accordance with DIN EN 50267-2-1 |
| Ambient temperature (operation) | -20 °C ... 80 °C (Cable) |
| Ambient temperature (installation) | 0 °C ... 50 °C |

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) |

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Classifications

ECLASS

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

ETIM

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

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

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Environmental product compliance

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|------------|--|
| REACH SVHC | Lead 7439-92-1 |
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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