# Bus system flush-type plug - SACCBP-MS-5CON-PG9/2,0-920SCO - 1437588

Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (http://download.phoenixcontact.com)



Bus system flush-type plug, DeviceNet/CANopen, 5-pos., M12, shielded, A-coded, SPEEDCON, rear/screw mounting with Pg9 thread, with 2.0 m bus cable, 2 x 0.2 mm², 2 x 0.32 mm²

## Key commercial data

| | |
|---|---|
| **package_quantity** | 1 |
| **GTIN** | 4046356457712 |

## Technical data

### Dimensions

| | |
|---|---|
| **Length of cable** | 2 m |

### Ambient conditions

| | |
|---|---|
| **Ambient temperature (operation)** | -25 °C ... 85 °C (Plug / socket) |
| **Degree of protection** | IP67 |

### General

| | |
|---|---|
| **Rated current at 40°C** | 4 A |
| **Rated voltage** | 60 V |
| **Number of positions** | 5 |
| **Insulation resistance** | 100 MΩ |
| **Coding** | A - standard |
| **Standards/regulations** | M12 connector IEC 61076-2-101 |
| **Signal type/category** | DeviceNet™ |
| **Surge voltage category** | II |
| **Pollution degree** | 3 |

### Material

| | |
|---|---|
| **Inflammability class according to UL 94** | V0 |
| **Contact material** | CuZn |
| **Contact surface material** | Ni/Au |
| **Contact carrier material** | PA 66 |
| **Material, knurls** | Zinc die-cast, nickel-plated |

# Bus system flush-type plug - SACCBP-MS-5CON-PG9/2,0-920SCO - 1437588

## Technical data

### Material

| | |
|---|---|
| **Sealing material** | NBR |

### Cable

| | |
|---|---|
| **Cable type** | CAN Bus/DeviceNet |
| **Cable type (abbreviation)** | 920 |
| **Conductor cross section** | 2x 0.25 mm² (signal line) |
| **Conductor cross section** | 2x 0.34 mm² (Power supply) |
| **Conductor cross section** | 1x 0.34 mm² (Drain wire) |
| **AWG signal line** | 24 |
| **AWG power supply** | 22 |
| **Conductor structure signal line** | 19x 0.13 mm |
| **Conductor structure, voltage supply** | 19x 0.15 mm |
| **Core diameter including insulation** | 1.95 mm ±0.05 mm (signal line) |
| **Core diameter including insulation** | 1.4 mm ±0.05 mm (Power supply) |
| **Wire colors** | Red-black, blue-white |
| **Twisted pairs** | 2 cores to the pair |
| **Type of pair shielding** | Aluminum-lined polyester foil |
| **Overall twist** | 2 pairs around a drain wire in the center to the core |
| **Shielding** | Tinned copper braided shield |
| **Optical shield covering** | 80 % |
| **External sheath, color** | Violet, RAL 4001 |
| **External cable diameter D** | 6.7 mm ±0.3 mm |
| **Smallest bending radius, fixed installation** | 67 mm |
| **Smallest bending radius, movable installation** | 67 mm |
| **Number of bending cycles** | 2000000 |
| **Bending radius** | 67 mm |
| **Traversing path** | 4.5 m |
| **Traversing rate** | 3 m/s |
| **Acceleration** | 3 m/s² |
| **Outer sheath, material** | PUR |
| **Material conductor insulation** | Foamed PE (signal line) |
| **Material conductor insulation** | PE (Power supply) |
| **Conductor material** | Tin-plated Cu litz wires |
| **Insulation resistance** | ≥ 5 GΩ*km (signal line) |
| **Insulation resistance** | ≥ 5 GΩ*km (Power supply) |
| **Working capacitance** | nom. 40 nF (signal line) |
| **Wave impedance** | 120 Ω ± 12 Ω (with 1 MHz) |
| **Nominal voltage, cable** | max. 300 V |
| **Test voltage, cable** | 2000 V (50 Hz, 1 min.) |
| **Flame resistance** | UL 1581, Sec. 1060 (FT-1) |

# Bus system flush-type plug - SACCBP-MS-5CON-PG9/2,0-920SCO - 1437588

## Technical data

### Cable

| | |
|---|---|
| **Flame resistance** | IEC 60332-1 |
| **Ambient temperature (operation)** | -40 °C ... 80 °C (cable, fixed installation) |
| **Ambient temperature (operation)** | -20 °C ... 70 °C (cable, flexible installation) |

## classifications

### eCl@ss

| | |
|---|---|
| **eCl@ss 4.0** | 27250313 |
| **eCl@ss 4.1** | 27250313 |
| **eCl@ss 5.0** | 27143423 |
| **eCl@ss 5.1** | 27143423 |
| **eCl@ss 6.0** | 27143423 |
| **eCl@ss 7.0** | 27449001 |
| **eCl@ss 8.0** | 27449001 |

### ETIM

| | |
|---|---|
| **ETIM 3.0** | EC002061 |
| **ETIM 4.0** | EC002061 |
| **ETIM 5.0** | EC002061 |

### UNSPSC

| | |
|---|---|
| **UNSPSC 6.01** | 31251501 |
| **UNSPSC 7.0901** | 31251501 |
| **UNSPSC 11** | 31251501 |
| **UNSPSC 12.01** | 31251501 |
| **UNSPSC 13.2** | 39121413 |

## approvals

UL Recognized / GOST / GOST /

### Approval details

**UL Recognized**

| | |
|---|---|
| Nominal voltage UN | 60 V |
| Nominal current IN | 4 A |
| mm²/AWG/kcmil | 26-20 |

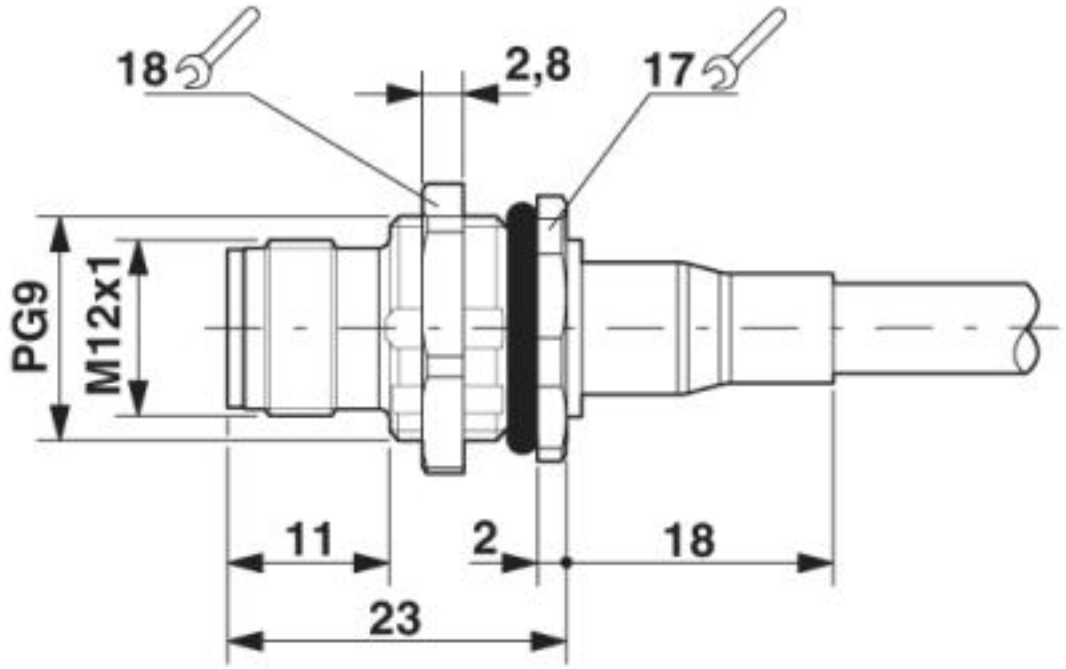
# Bus system flush-type plug - SACCBP-MS-5CON-PG9/2,0-920SCO - 1437588

## approvals

GOST

## Drawings

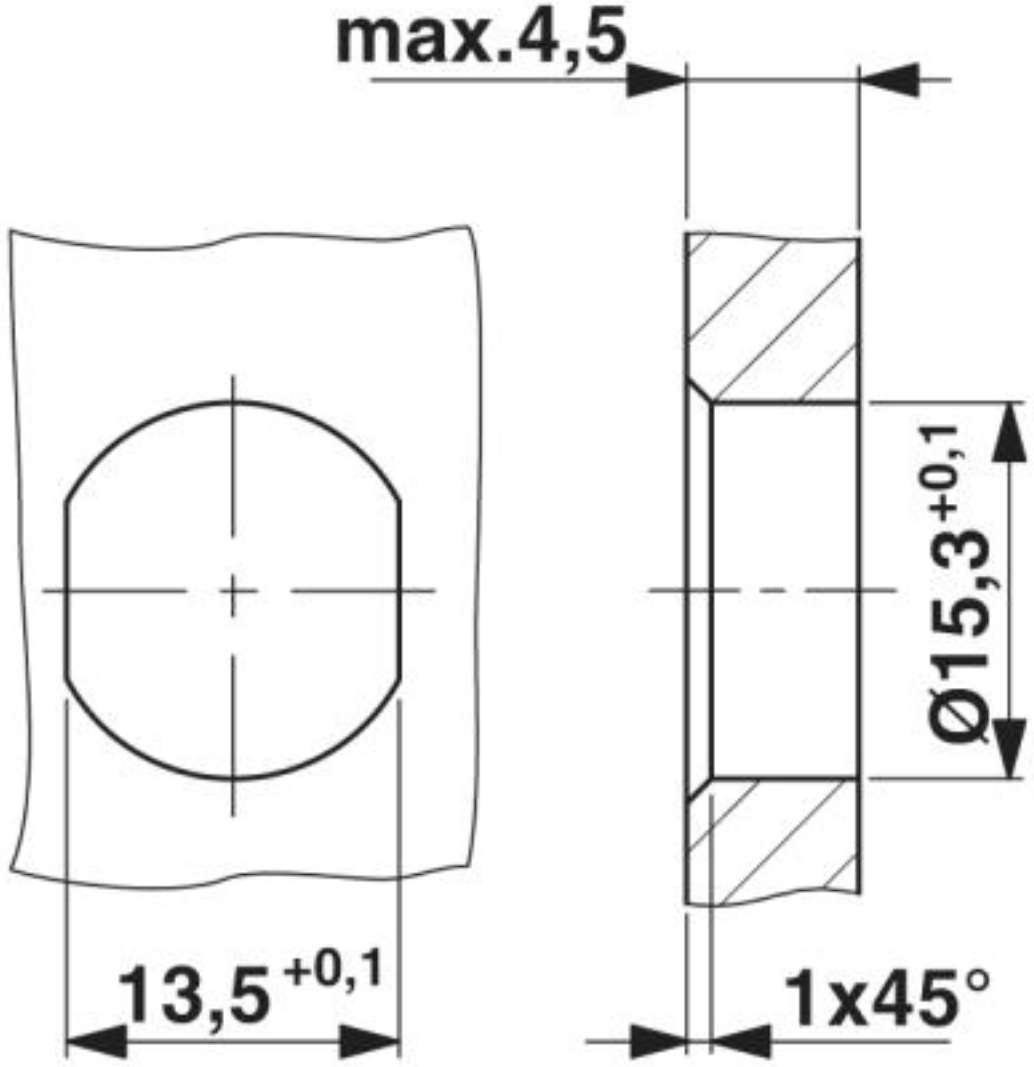
Dimensioned drawing




M12 panel feed-through

# Bus system flush-type plug - SACCBP-MS-5CON-PG9/2,0-920SCO - 1437588

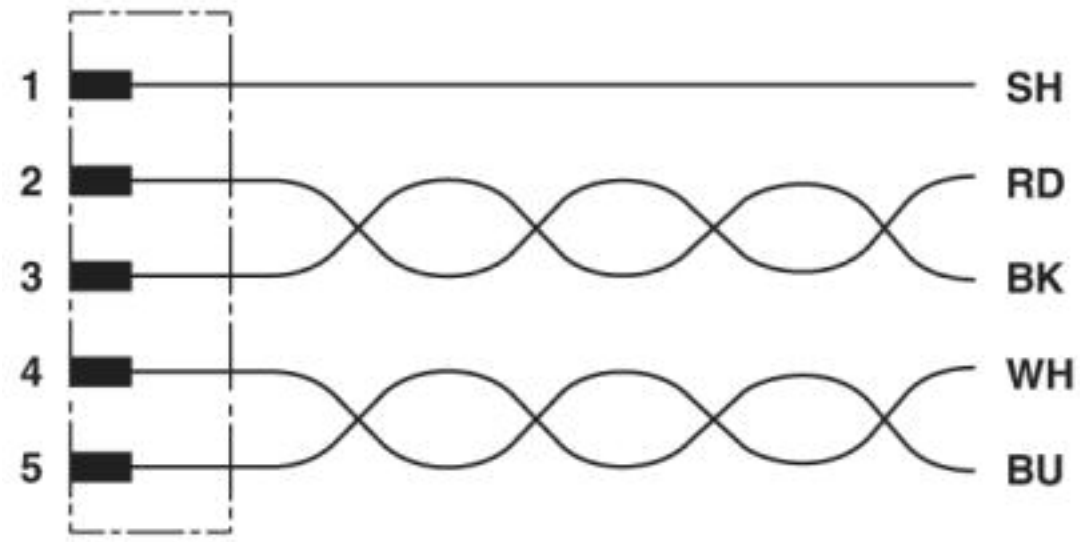
Dimensioned drawing




Housing cutout for Pg9 fastening thread, mounting panel with feed-through hole (alternatively with surface as protection against rotation)

# Bus system flush-type plug - SACCBP-MS-5CON-PG9/2,0-920SCO - 1437588

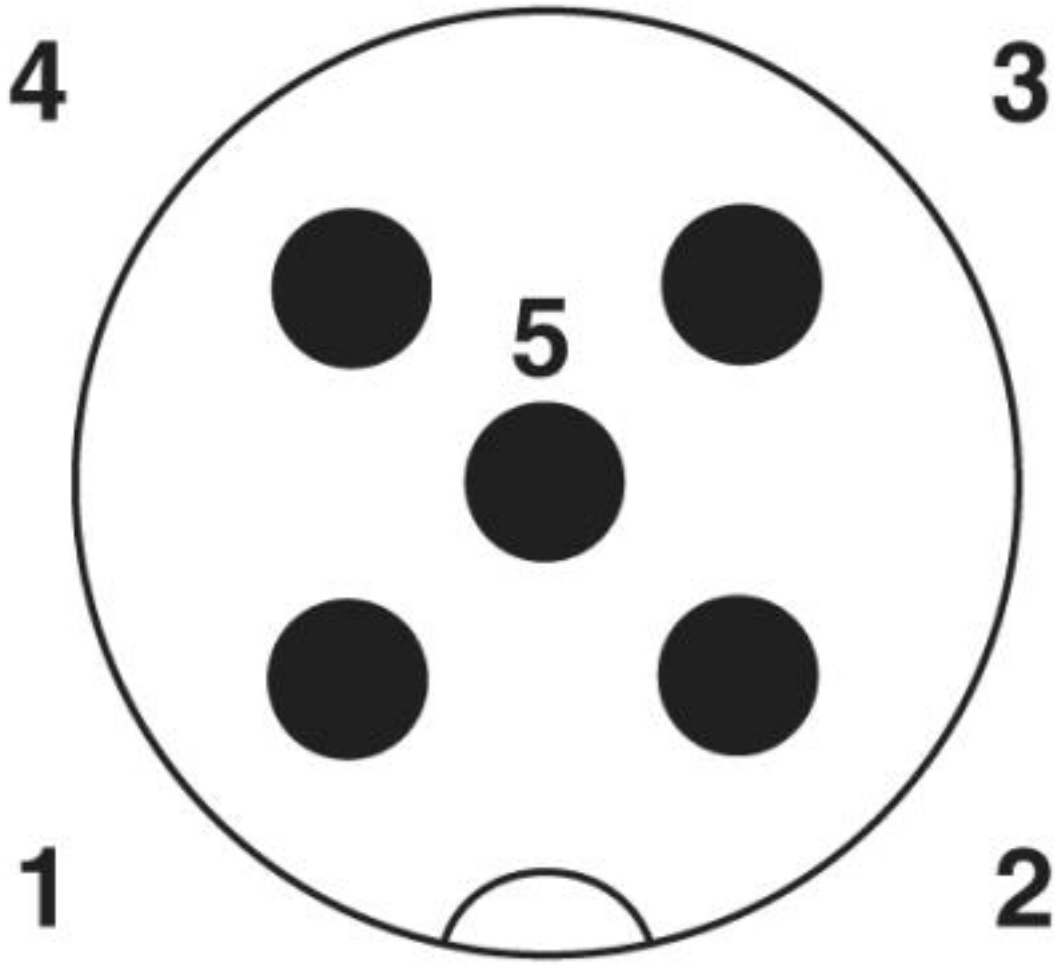
Circuit diagram




Contact assignment of the M12 plug

# Bus system flush-type plug - SACCBP-MS-5CON-PG9/2,0-920SCO - 1437588

Schematic diagram




Pin assignment M12 male connector, 5-pos., A-coded, male side

# Bus system flush-type plug - SACCBP-MS-5CON-PG9/2,0-920SCO - 1437588

Cable cross section



CAN Bus/DeviceNet [920]

© Phoenix Contact 2013 - all rights reserved
http://www.phoenixcontact.com