

SAC-2P-15,0-915/M12FSB - Bus system cable



1525539

<https://www.phoenixcontact.com/us/products/1525539>

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 documentation. Our general terms of use for downloads are valid.



Bus system cable, PROFIBUS, 2-position, PUR/PVC, blue, shielded, free cable end, on Socket straight M12, coding: B, cable length: 15 m

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 1525539 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Product key | AF1CKC |
| GTIN | 4017918950194 |
| Weight per piece (including packing) | 1,132.2 g |
| Weight per piece (excluding packing) | 1,132.2 g |
| Country of origin | PL |

1525539

<https://www.phoenixcontact.com/us/products/1525539>

Technical data

Product properties

| | |
|----------------------|-------------------------|
| Product type | Data cable preassembled |
| Application | Bus system |
| Number of positions | 2 |
| No. of cable outlets | 1 |
| Shielded | yes |
| Coding | B |

Insulation characteristics

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

Interfaces

| | |
|----------------------|----------|
| Bus system | PROFIBUS |
| Signal type/category | PROFIBUS |

Signaling

| | |
|------------------------|----|
| Status display | no |
| Status display present | no |

Electrical properties

| | |
|-----------------------|----------|
| Insulation resistance | ≥ 100 MΩ |
| Nominal voltage U_N | 48 V AC |
| | 60 V DC |
| Nominal current I_N | 4 A |
| Transmission medium | Copper |

Mechanical properties

Mechanical data

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

Material specifications

| | |
|--|---|
| Flammability rating according to UL 94 | V0 |
| Seal material | NBR |
| Material of grip body | TPU, hardly inflammable, self-extinguishing |
| Contact material | CuSn |
| Contact surface material | Ni/Au |
| Contact carrier material | TPU GF |
| Material for screw connection | Zinc die-cast, nickel-plated |

Connection data

SAC-2P-15,0-915/M12FSB - Bus system cable



1525539

<https://www.phoenixcontact.com/us/products/1525539>

Connection assignment

| | |
|---|---------------------------|
| Contact Color (signal designation) Contact (optional) | 2 (Socket) GN (A cable) |
| | 4 (Socket) RD (B cable) |

Connector

Connection 1

| | |
|------|----------------|
| Type | free cable end |
|------|----------------|


Connection 2

| | |
|------|----------------|
| Type | free cable end |
|------|----------------|

Cable/line

| | |
|--------------|------|
| Cable length | 15 m |
|--------------|------|

PROFIBUS [915]

| | |
|---------------------------------|--|
| Dimensional drawing |  |
| Cable weight | 74 kg/km |
| Number of positions | 2 |
| Shielded | yes |
| Cable type | PROFIBUS [915] |
| Conductor structure | 1x2xAWG24/19 |
| Conductor structure signal line | 19x 0.14 mm |
| AWG signal line | 24 |
| Conductor cross-section | 2x 0.25 mm ² |
| Wire diameter incl. insulation | 2.56 mm |
| External cable diameter | 8.00 mm ±0.4 mm |
| Outer sheath, material | PUR |
| External sheath, color | blue |
| Conductor material | Bare Cu litz wires |
| Material wire insulation | Foamed PE |
| Single wire, color | red, green |
| Thickness, outer sheath | approx. 0.80 mm |
| Overall twist | 2 wires, twisted |
| Optical shield covering | 70 % |
| Insulation resistance | ≥ 16 GΩ*km |
| Working capacitance | 28 nF (at 1 kHz) |
| Nominal voltage, cable | ≤ 100 V |

SAC-2P-15,0-915/M12FSB - Bus system cable



1525539

<https://www.phoenixcontact.com/us/products/1525539>

| | |
|---|---|
| Test voltage Core/Core | 3600 V DC |
| Minimum bending radius, flexible installation | 5 x D |
| Smallest bending radius, movable installation | 40 mm |
| Dynamic load capacity (bending) | Max. bending cycles: 3000000, Bending radius: 60 mm, Acceleration: 4 m/s ² |
| Tensile strength | ≤ 100 N |
| Flame resistance | according to IEC 60332-1 |
| Resistance to oil | Resistant to mineral oils and grease |
| Ambient temperature (operation) | -40 °C ... 80 °C (Cable, flexible installation) |

Environmental and real-life conditions

Ambient conditions

| | |
|---|----------------------------------|
| Degree of protection | IP65 |
| | IP67 |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 90 °C (Plug / socket) |

SAC-2P-15,0-915/M12FSB - Bus system cable

1525539

<https://www.phoenixcontact.com/us/products/1525539>

Drawings

Dimensional drawing



M12 x 1 socket, straight, shielded

Schematic diagram



Pin assignment M12 socket, 5-pos., B-coded, female side

SAC-2P-15,0-915/M12FSB - Bus system cable



1525539

<https://www.phoenixcontact.com/us/products/1525539>

Circuit diagram



SAC-2P-15,0-915/M12FSB - Bus system cable



1525539

<https://www.phoenixcontact.com/us/products/1525539>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1525539>



EAC-RoHS

Approval ID: RU D-DE.HB35.B.00387

SAC-2P-15,0-915/M12FSB - Bus system cable



1525539

<https://www.phoenixcontact.com/us/products/1525539>

Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27060307 |
| ECLASS-15.0 | 27060307 |

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 26121600 |
|-------------|----------|

SAC-2P-15,0-915/M12FSB - Bus system cable



1525539

<https://www.phoenixcontact.com/us/products/1525539>

Environmental product compliance

EU RoHS

| | |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

China RoHS

| | |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E |
| | No hazardous substances above the limits |

EU REACH SVHC

| | |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

EF3.1 Climate Change

| | |
|---------|----------------|
| CO2e kg | 12.855 kg CO2e |
|---------|----------------|

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com