

1453452

https://www.phoenixcontact.com/in/products/1453452

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.



Device connector rear mounting, 4-position, Socket, straight, M8, Rear mounting, M12 \times 1, Individual wires, cable length: 0.5 m, 0.25 mm², PVC litz wire

Your advantages

- · Preassembled with litz wires for immediate use
- · Customer-specific assemblies and litz wire lengths available
- · Sealed on the litz wire side for optimum leak-tightness
- Standard pin assignments and codings for signal transmission with a uniform design-in design

Commercial data

| Item number | 1453452 |
|--------------------------------------|--------------------|
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | ABQ |
| Product key | ABQIDC |
| Catalog page | Page 34 (C-2-2019) |
| GTIN | 4046356554404 |
| Weight per piece (including packing) | 21.54 g |
| Weight per piece (excluding packing) | 20 g |
| Customs tariff number | 85444290 |
| Country of origin | DE |



1453452

https://www.phoenixcontact.com/in/products/1453452

Technical data

Mounting

| Mounting type | Rear mounting M12 x 1 With flat nut |
|-----------------------|-------------------------------------|
| Assembly instructions | With flat nut |

Product properties

| Product type | Circular connectors (device side) |
|----------------------|-----------------------------------|
| Number of positions | 4 |
| No. of cable outlets | 1 |
| Shielded | no |
| Coding | A |
| Thread type | M8 |

Insulation characteristics

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

Material specifications

| Flammability rating according to UL 94 | НВ |
|--|--------------------------|
| Seal material | FKM |
| Contact material | Cu alloy |
| Contact surface material | Au |
| Contact carrier material | PUR/PA 6.6 |
| Material for screw connection | Brass, nickel-plated |
| Conductor material | Tin-plated Cu litz wires |

Electrical properties

| Rated surge voltage | 1.5 kV |
|--------------------------------|----------|
| Contact resistance | ≤ 3 mΩ |
| Insulation resistance | ≥ 100 MΩ |
| Nominal voltage U _N | 48 V AC |
| | 60 V DC |
| Nominal current I _N | 4 A |
| Max. conductor resistance | 80 Ω/km |

Connection data

Conductor connection

| Connection method | Individual wires |
|-------------------------|---------------------------------|
| Contact connection type | Socket |
| Conductor cross section | 0.25 mm² |
| Tightening torque | 1 Nm 1.5 Nm (Installation-side) |



1453452

https://www.phoenixcontact.com/in/products/1453452

Connector

Connection 1

| Head design | Socket |
|-------------------|----------|
| Head cable outlet | straight |
| Head thread type | M8 |

Cable/line

| Cable length | 0.5 m | |
|---------------------------------|--|--|
| Cable type | PVC litz wire | |
| Wire diameter incl. insulation | 1.5 mm ±0.1 mm | |
| Single wire, color | brown, white, blue, black | |
| Cable cross section | 0.25 mm² | |
| Conductor material | Tin-plated Cu litz wires | |
| Conductor structure signal line | 7x 0.20 mm | |
| AWG signal line | 24 | |
| Material wire insulation | PVC / UL | |
| Thickness, insulation | 0.21 mm | |
| Nominal voltage, cable | 300 V | |
| Test voltage, cable | 2000 V AC | |
| Cable resistance | ≥ 80 Ω/km | |
| Cable insulation resistance | ≥ 20 MΩ*km | |
| Ambient temperature (operation) | -40 °C 105 °C (cable, fixed installation) | |
| | -10 °C 105 °C (Cable, flexible installation) | |

Environmental and real-life conditions

Ambient conditions

| Degree of protection | IP67 |
|---------------------------------|--|
| | IP67 |
| Ambient temperature (operation) | -25 °C 85 °C (Socket) |
| | -40 °C 105 °C (cable, fixed installation) |
| | -10 °C 105 °C (Cable, flexible installation) |

Standards and regulations

M8

| Standard designation | M8 connector |
|--------------------------|-----------------|
| Standards/specifications | IEC 61076-2-104 |

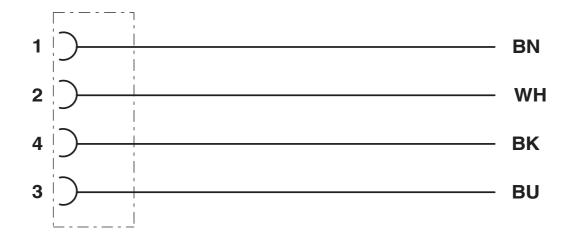


1453452

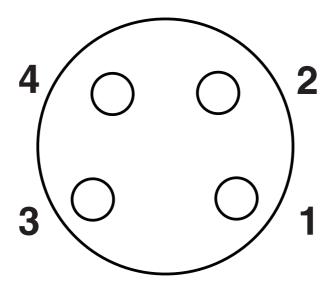
https://www.phoenixcontact.com/in/products/1453452

Drawings

Circuit diagram



Schematic diagram



Pin assignment M8 socket, 4-pos., view female side



1453452

https://www.phoenixcontact.com/in/products/1453452

Approvals

 \Im To download certificates, visit the product detail page: https://www.phoenixcontact.com/in/products/1453452

| .71 | cUL Recognized Approval ID: E221474-20070307 | | | |
|-----|--|--------------------------------|-------------------|-------------------------------|
| | Nominal voltage U_N | Nominal current I _N | Cross section AWG | Cross section mm ² |
| | 30 V | 4 A | 24 - 24 | - |

| 71 | UL Recognized Approval ID: E221474-20070307 | | | | | |
|----|---|-----------------------|--------------------------------|-------------------|-------------------------------|--|
| | | Nominal voltage U_N | Nominal current I _N | Cross section AWG | Cross section mm ² | |
| | | 30 V | 4 A | 24 - 24 | - | |

cULus Recognized



1453452

https://www.phoenixcontact.com/in/products/1453452

Classifications

ECLASS

| | ECLASS-11.0 | 27440102 | | |
|--------|-------------|----------|--|--|
| | ECLASS-12.0 | 27440116 | | |
| | ECLASS-13.0 | 27440116 | | |
| ETIM | | | | |
| | ETIM 9.0 | EC002635 | | |
| UNSPSC | | | | |
| | UNSPSC 21.0 | 39121400 | | |



1453452

https://www.phoenixcontact.com/in/products/1453452

Environmental product compliance

| 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" |

Phoenix Contact 2024 © - all rights reserved https://www.phoenixcontact.com

PHOENIX CONTACT (I) Pvt. Ltd. A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420 info@phoenixcontact.co.in