# SAC-3P-MINMS/ 2,0-547/MINFS - Power cable

1416581

https://www.phoenixcontact.com/us/products/1416581

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Power cable, 3-position, PVC, yellow, Plug straight 7/8"-16UNF, on Socket straight 7/8"-16UNF, cable length: 2 m

## Your advantages

- Easy and safe: 100 % electrically tested plug-in components

## Commercial data

| | |
|---|---|
| Item number | 1416581 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | BF14 |
| Product key | AF1IMA |
| GTIN | 4055626221472 |
| Weight per piece (including packing) | 22.22 g |
| Weight per piece (excluding packing) | 22.22 g |
| Customs tariff number | 85444290 |
| Country of origin | MX |

## Technical data

### Product properties

| | |
|---|---|
| Product type | Sensor/actuator cable |
| Application | Standard |
| Number of positions | 3 |
| No. of cable outlets | 1 |
| Shielded | no |
| Coding | A |

### Material specifications

| | |
|---|---|
| Flammability rating according to UL 94 | V0 |
| Material of grip body | PVC |
| Contact material | CuZn |
| Contact surface material | Au |
| Contact carrier material | PVC |
| Material for screw connection | Anodized aluminum |

### Electrical properties

| | |
|---|---|
| Insulation resistance | ≥ 100 MΩ |
| Nominal voltage $U_N$ | 300 V AC/DC (UL rating) |
| | 50 V AC/DC (IEC rating) |
| Nominal current $I_N$ | 13 A |

### Mechanical properties

Mechanical data

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

### Signaling

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

### Connection data

Conductor connection

| | |
|---|---|
| Tightening torque | 10 $lb_f$-in. |
| | 1.12 Nm |

### Connector

Connection 1

| | |
|---|---|
| Type | Plug straight 7/8"-16UNF |
| Number of positions | 3 |

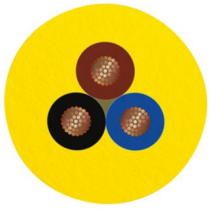
Connection 2

| | |
|---|---|
| Type | Socket straight 7/8"-16UNF |
| Number of positions | 3 |

## Cable/line

| | |
|---|---|
| Cable length | 2 m |

PVC AWG 18 yellow 105°C [547]

| | |
|---|---|
| Dimensional drawing |  |
| UL AWM Style | 2517 (105 °C / 300 V) |
| Number of positions | 3 |
| Shielded | no |
| Cable type | PVC AWG 18 yellow 105°C [547] |
| Conductor structure signal line | 41x 0.16 mm |
| AWG signal line | 18 |
| Wire diameter incl. insulation | 1.7 mm ±0.03 mm |
| External cable diameter | 5.70 mm ±0.2 mm |
| Outer sheath, material | PVC |
| External sheath, color | yellow |
| Conductor material | Tin-plated Cu litz wires |
| Material wire insulation | PVC |
| Single wire, color | brown, blue, black |
| Overall twist | 3 wires, twisted |
| Nominal voltage, cable | 300 V |
| Minimum bending radius, fixed installation | 8 x D |
| Smallest bending radius, fixed installation | 46 mm |
| Flame resistance | FT4 |
| Special properties | UL ITC/PLTC 105 °C |
| | CSA AWM I/II A/B FT4 105 °C / 300 V |
| Ambient temperature (operation) | -30 °C ... 105 °C (cable, fixed installation) |

## Environmental and real-life conditions

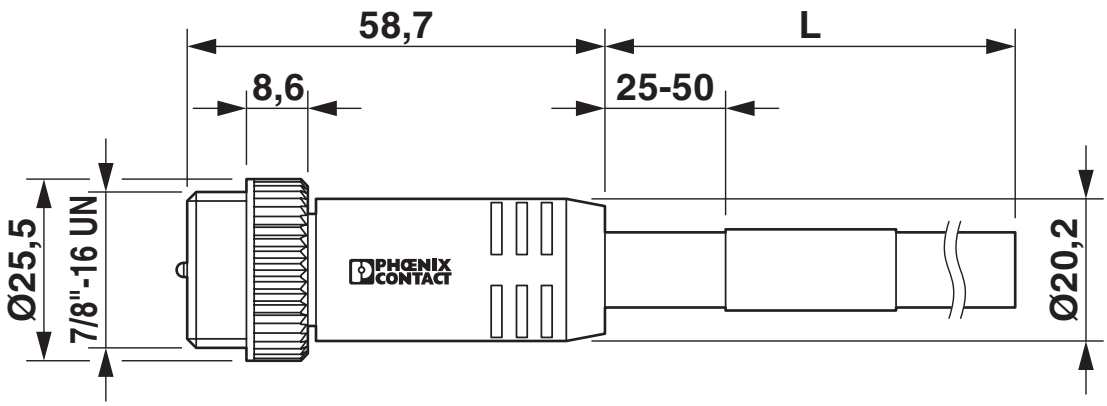
Ambient conditions

| | |
|---|---|
| Degree of protection | IP68 |
| Ambient temperature (operation) (male connector/female connector) | -20 °C ... 105 °C (Plug / socket) |
| Ambient temperature (operation) | -20 °C ... 105 °C (Plug / socket) |
| Ambient temperature (operation) (Cable, fixed installation) | -40 °C ... 105 °C (cable, fixed installation) |

| | |
|---|---|
| Ambient temperature (operation) (Cable, flexible installation) | -30 °C ... 105 °C (Cable, flexible installation) |

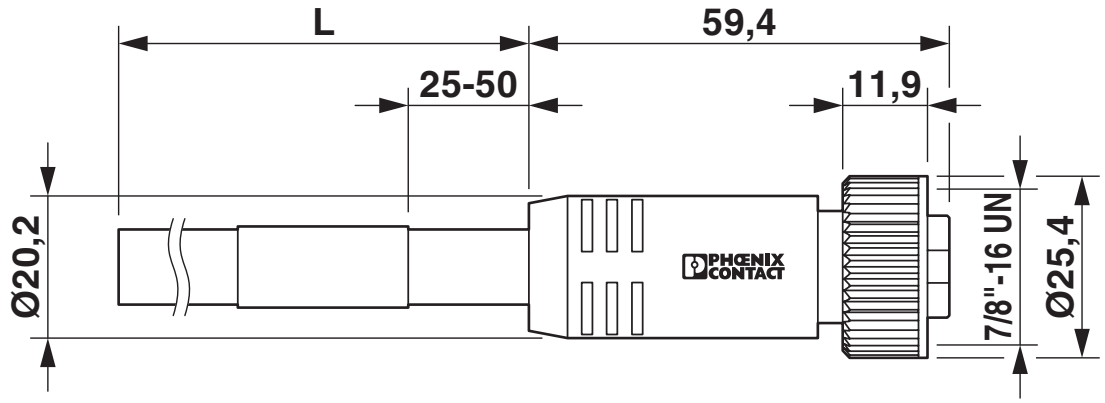
## Drawings

Dimensional drawing



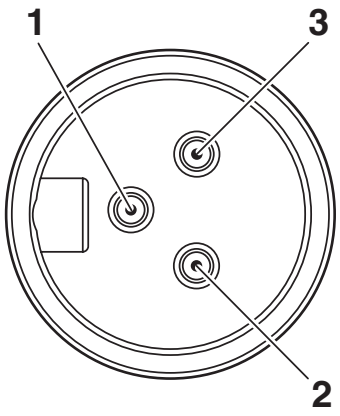

7/8"-16UNF plug, straight

Dimensional drawing



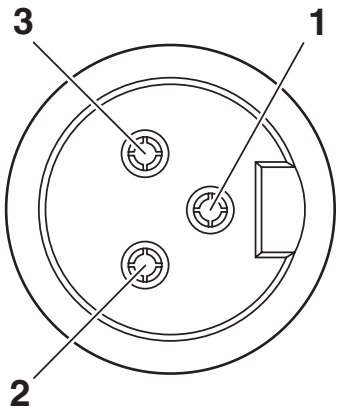

7/8"-16UNF socket, straight

Schematic diagram



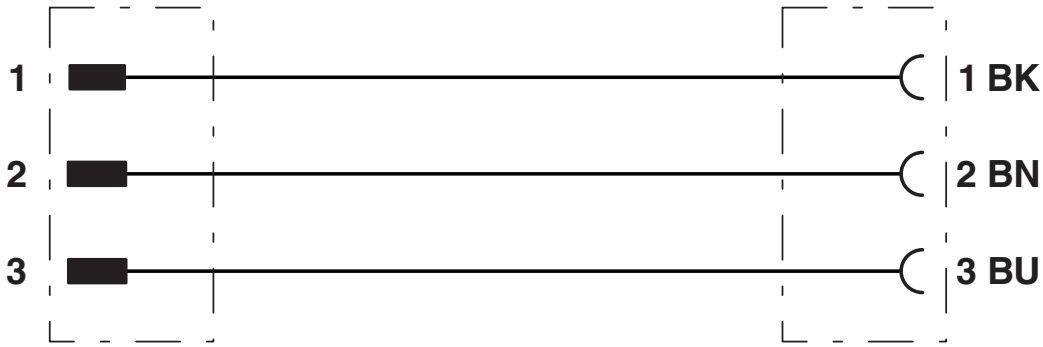

Pin assignment, plug, 7/8"-16UNF, 3-pos., view of male side

Schematic diagram




Pin assignment, socket, 7/8"-16UNF, 3-pos., view of female side

Circuit diagram




Contact assignment of 7/8" plugs/sockets

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1416581

**UL Listed**
Approval ID: FILE E 221474

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Approval ID: FILE E 221474

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27060311 |
| ECLASS-15.0 | 27060311 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC001855 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 31251501 |

## 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 | 7.003 kg CO2e |

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