

# SAC-3P-MINMR/ 5,0-U50/MINFR - Power cable



1417104

<https://www.phoenixcontact.com/us/products/1417104>

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Power cable, 3-position, PVC, black, Plug angled 7/8"-16UNF, coding: A, on Socket angled 7/8"-16UNF, coding: A, cable length: 5 m

## Your advantages

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

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1417104                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF14                           |
| Product key                          | AF1IMC                         |
| GTIN                                 | 4055626222400                  |
| Weight per piece (including packing) | 22.22 g                        |
| Weight per piece (excluding packing) | 22.22 g                        |
| Customs tariff number                | 85444290                       |
| Country of origin                    | MX                             |

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## Technical data

### Product properties

|                     |                       |
|---------------------|-----------------------|
| Product type        | Sensor/actuator cable |
| Application         | Standard              |
| Number of positions | 3                     |
| 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 | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage $U_N$ | 600 V AC/DC (UL rating)    |
|                       | 50 V AC/DC (IEC rating)    |
| Nominal current $I_N$ | 23.5 A (UL 2238)           |
|                       | 7 A (UL 2237)              |

### Mechanical properties

#### Mechanical data

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

### Signaling

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

### Connection data

#### Conductor connection

|                   |                         |
|-------------------|-------------------------|
| Tightening torque | 10 lb <sub>F</sub> ·in. |
|                   | 1.12 Nm                 |

### Connector

#### Connection 1

|                     |                        |
|---------------------|------------------------|
| Type                | Plug angled 7/8"-16UNF |
| Number of positions | 3                      |
| Coding type         | A                      |

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## Connection 2

|                     |                          |
|---------------------|--------------------------|
| Type                | Socket angled 7/8"-16UNF |
| Number of positions | 3                        |
| Coding type         | A                        |

## Cable/line

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

## TC-ER/600V, STOOW [U50]

|                                     |   |
|-------------------------------------|---|
| Number of positions                 | 3   |
| Shielded                            | no  |
| Cable type                          | TC-ER/600V, STOOW [U50]   |
| Conductor structure, voltage supply | 104 x AWG 34  |
| Conductor cross-section             | 3 x AWG 14  |
| External cable diameter             | 14.53 mm  |
| Outer sheath, material              | PVC   |
| External sheath, color              | black   |
| Conductor material                  | Bare Cu litz wires  |
| Material wire insulation            | PVC   |
| Single wire, color                  | green 1, black 2, white 3   |
| Overall twist                       | 3 wires, twisted  |
| Nominal voltage, cable              | 600 V   |
| Flame resistance                    | UL 1581, FT2  |
| Resistance to oil                   | Premium oil resistance (jacket and conductor)   |
| Other resistance                    | UV resistant (720 h) (UL 2556)  |
| Ambient temperature (operation)     | -40 °C ... 105 °C (cable, fixed installation)<br>-30 °C ... 105 °C (Cable, flexible 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) |

## Standards and regulations

|                          |                  |
|--------------------------|------------------|
| Standards/specifications | UL 2237, UL 2238 |
|--------------------------|------------------|

Drawings

Dimensional drawing



7/8"-16UNF plug, angled

Dimensional drawing



7/8"-16UNF socket, angled

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Schematic diagram



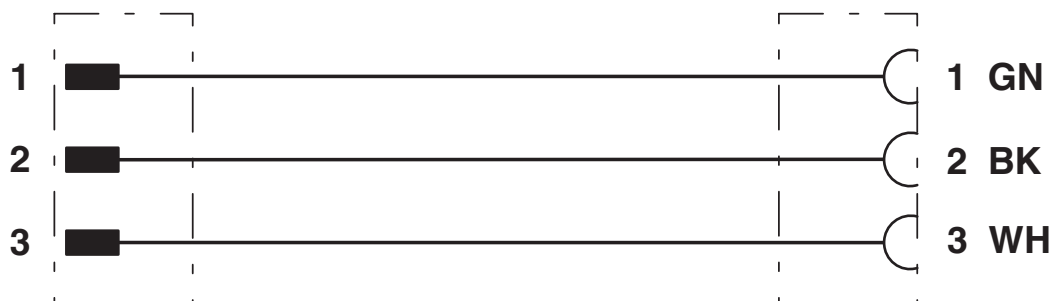
Pin assignment, plug, 7/8"-16UNF, 3-pos., view of male side

Schematic diagram



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

Circuit diagram



Contact assignment of 7/8" plugs/sockets

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## Approvals

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**UL Listed**

Approval ID: FILE E 221474



**cUL Listed**

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## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

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## 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 | 12.823 kg CO2e |
|---------|----------------|

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