

# SAC-2P-MINMS/10,0-U20 - Power cable



1416769

<https://www.phoenixcontact.com/us/products/1416769>

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Power cable, 2-position, Plug straight 7/8"-16UNF, coding: A, on free cable end, cable length: 10 m

## Your advantages

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

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1416769                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF14                           |
| Product key                          | BF1IMB                         |
| GTIN                                 | 4055626223384                  |
| 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

### Notes

#### Trade restriction

|         |  |
|---------|--|
| CE note | The products are offered exclusively for export outside the EU and the European Economic Area. |
|---------|--|

### Product properties

|                      |                       |
|----------------------|-----------------------|
| Product type         | Sensor/actuator cable |
| Number of positions  | 2                     |
| Application          | Standard              |
| 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

|                       |                            |
|-----------------------|----------------------------|
| Contact resistance    | $\leq 5 \text{ m}\Omega$   |
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage $U_N$ | 600 V AC                   |
|                       | 600 V DC                   |
| Nominal current $I_N$ | 13 A                       |
| Protective circuit    | unwired                    |

### 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                 |

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## Connector

### Connection 1

|             |                          |
|-------------|--------------------------|
| Type        | Plug straight 7/8"-16UNF |
| Coding type | A                        |

### Connection 2

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

## Cable/line

|              |      |
|--------------|------|
| Cable length | 10 m |
|--------------|------|

### Yellow, STOOW [U20]

|   |   |
|---|---|
| Number of positions                           | 2   |
| Shielded                                      | no  |
| Cable type                                    | Yellow, STOOW [U20]   |
| Conductor cross section                       | 2 x AWG 16  |
| External cable diameter                       | 9.4 mm  |
| Outer sheath, material                        | PVC   |
| External sheath, color                        | yellow  |
| Conductor material                            | Bare Cu litz wires  |
| Single wire, color                            | white 1, black 2  |
| Nominal voltage, cable                        | 600 V   |
| Minimum bending radius, fixed installation    | 4 x D   |
| Minimum bending radius, flexible installation | 12.5 x D  |
| Smallest bending radius, fixed installation   | 38 mm   |
| Smallest bending radius, movable installation | 118 mm  |
| 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) | -20 °C ... 105 °C (Plug / socket)<br>-40 °C ... 105 °C (cable, fixed installation)<br>-30 °C ... 105 °C (Cable, flexible installation) |

# SAC-2P-MINMS/10,0-U20 - Power cable

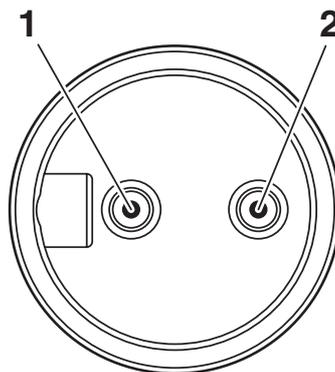


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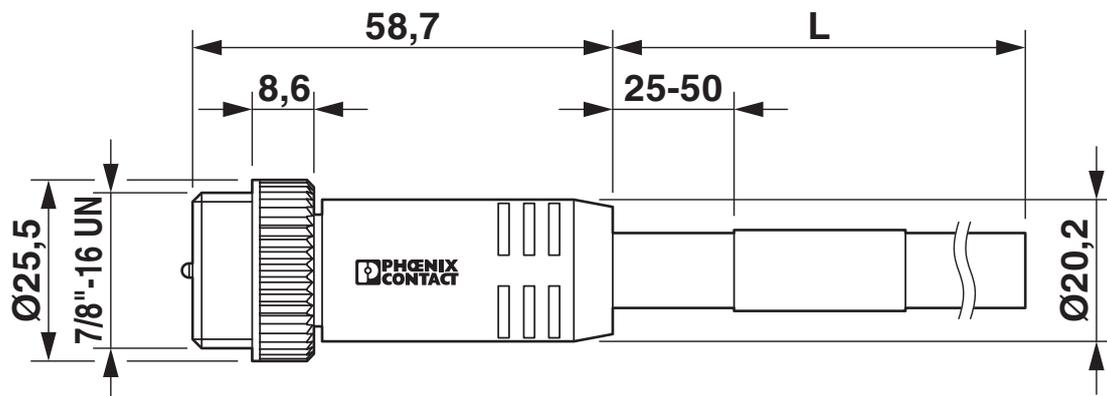
## Drawings

Schematic diagram



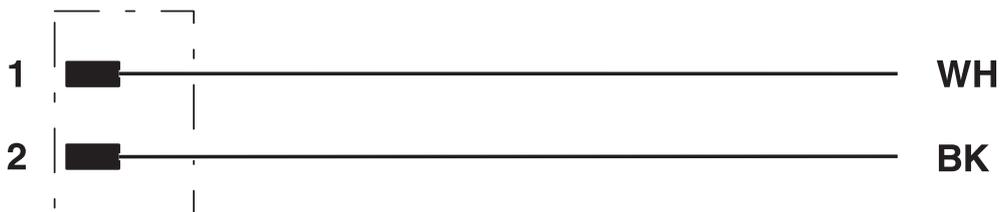
Pin assignment, plug, 7/8"-16UNF, 2-pos., view of male side

Dimensional drawing



7/8"-16UNF plug, straight

Circuit diagram



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## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1416769>



**UL Listed**

Approval ID: FILE E 221474



**cUL Listed**

Approval ID: FILE E 221474

**cULus Listed**

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-11.0 | 27060311 |
| ECLASS-12.0 | 27060311 |
| ECLASS-13.0 | 27060311 |

### UNSPSC

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

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## Environmental product compliance

|            |  |
|------------|--|
| China RoHS | Environmentally Friendly Use Period = 50 years<br>For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |
|------------|--|

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