

1416816

<https://www.phoenixcontact.com/us/products/1416816>

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Power cable, 4-position, Plug straight 7/8"-16UNF, coding: A, on Socket straight 7/8"-16UNF, coding: A, cable length: 10 m

Your advantages

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

Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1416816                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF14                           |
| Product key                          | BF1IMB                         |
| GTIN                                 | 4055626223834                  |
| Weight per piece (including packing) | 22.22 g                        |
| Weight per piece (excluding packing) | 22.22 g                        |
| Customs tariff number                | 85444290                       |
| Country of origin                    | MX                             |

# SAC-4P-MINMS/10,0-U20/MINFS - Power cable



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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  | 4                     |
| 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 $I_N$ | 10 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 |
| Number of positions | 4                        |
| Coding type         | A                        |

### Connection 2

|                     |                            |
|---------------------|----------------------------|
| Type                | Socket straight 7/8"-16UNF |
| Number of positions | 4                          |
| Coding type         | A                          |

## Cable/line

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

### Yellow, STOOW [U20]

|                                               |                                                  |
|-----------------------------------------------|--------------------------------------------------|
| Number of positions                           | 4                                                |
| Shielded                                      | no                                               |
| Cable type                                    | Yellow, STOOW [U20]                              |
| Conductor cross section                       | 4 x AWG 16                                       |
| External cable diameter                       | 10.7 mm                                          |
| Outer sheath, material                        | PVC                                              |
| External sheath, color                        | yellow                                           |
| Conductor material                            | Bare Cu litz wires                               |
| Single wire, color                            | black 1, white 2, red 3, green 4                 |
| 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   | 43 mm                                            |
| Smallest bending radius, movable installation | 134 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)    |
|                                               | -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)                |
|                                 | -40 °C ... 105 °C (cable, fixed installation)    |
|                                 | -30 °C ... 105 °C (Cable, flexible installation) |

# SAC-4P-MINMS/10,0-U20/MINFS - Power cable

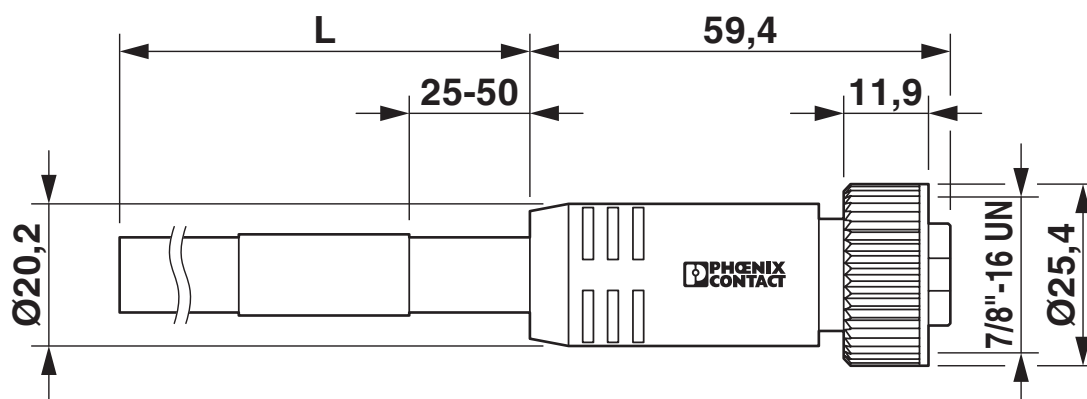


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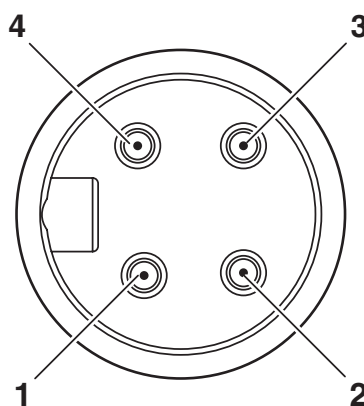
## Drawings

Dimensional drawing



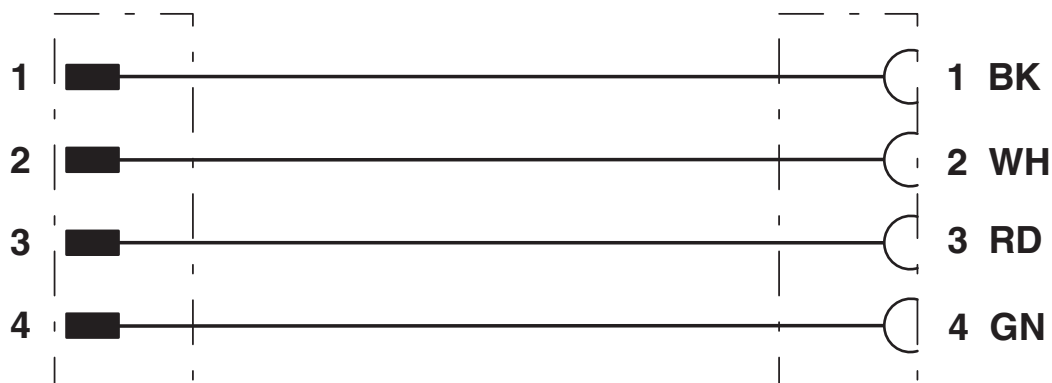
7/8"-16UNF socket, straight

Schematic diagram



Pin assignment, plug, 7/8"-16UNF, 4-pos., view of male side

Circuit diagram



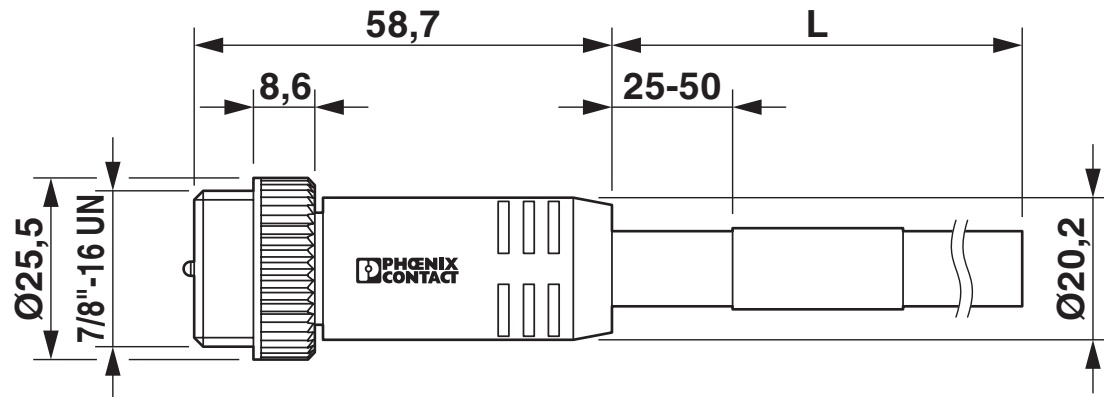
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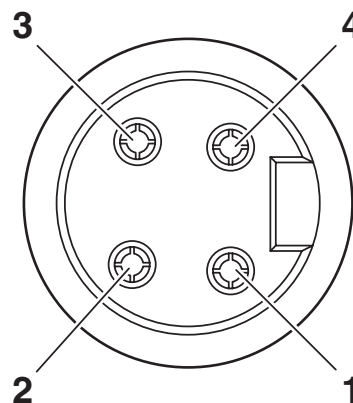
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Dimensional drawing



7/8"-16UNF plug, straight

Schematic diagram



Pin assignment, socket, 7/8"-16UNF, 4-pos., view of female side

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## Approvals

 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1416816>



**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                                                               |
|            | For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads" |

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