

# SAC-2P-MINMR/ 1,0-U20/MINFR - Power cable



1416496

<https://www.phoenixcontact.com/us/products/1416496>

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Power cable, 2-position, PVC, yellow, Plug angled 7/8"-16UNF, coding: A, on Socket angled 7/8"-16UNF, cable length: 1 m

## Your advantages

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

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1416496                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF14                           |
| Product key                          | AF1IMB                         |
| GTIN                                 | 4055626222882                  |
| 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  | 2                     |
| 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 | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage $U_N$ | 600 V AC/DC (UL rating)    |
|                       | 50 V AC/DC (IEC rating)    |
| Nominal current $I_N$ | 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 <sub>F</sub> ·in. |
|                   | 1.12 Nm                 |

### Connector

#### Connection 1

|                     |                        |
|---------------------|------------------------|
| Type                | Plug angled 7/8"-16UNF |
| Number of positions | 2                      |
| Coding type         | A                      |

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## Connection 2

|                     |                          |
|---------------------|--------------------------|
| Type                | Socket angled 7/8"-16UNF |
| Number of positions | 2                        |

## Cable/line

|              |     |
|--------------|-----|
| Cable length | 1 m |
|--------------|-----|

## Yellow, STOOW [U20]

|                                               |                                                  |
|-----------------------------------------------|--------------------------------------------------|
| Number of positions                           | 2                                                |
| Shielded                                      | no                                               |
| Cable type                                    | Yellow, STOOW [U20]                              |
| Conductor structure, voltage supply           | 65 x AWG 32                                      |
| Conductor cross-section                       | 2 x AWG 16                                       |
| External cable diameter                       | 9.40 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)    |
|                                               | -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) (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, angled

Dimensional drawing



7/8"-16UNF socket, angled

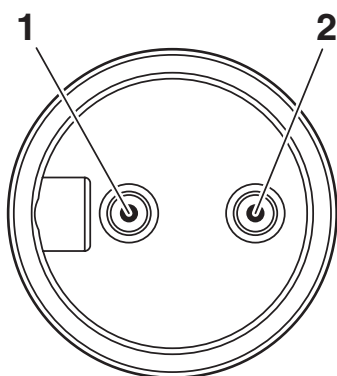
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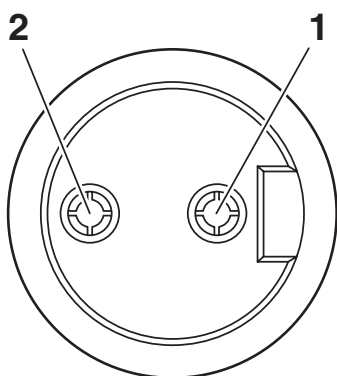


Schematic diagram



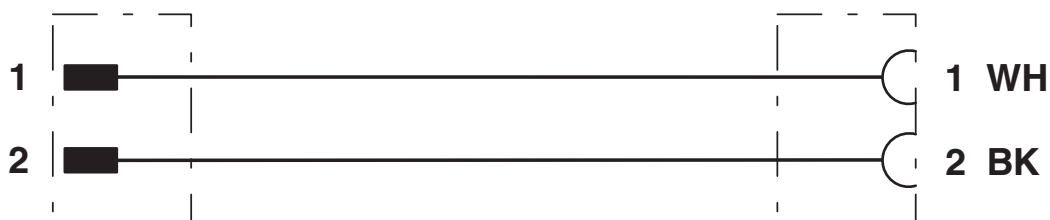
Pin assignment, plug, 7/8"-16UNF, 2-pos., view of male side

Schematic diagram



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

Circuit diagram



Contact assignment of 7/8" plugs/sockets

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## Classifications

### ECLASS

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

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC001855 |
|----------|----------|

### UNSPSC

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

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## Environmental product compliance

|                                         |                                                       |
|-----------------------------------------|-------------------------------------------------------|
| EU RoHS                                 |                                                       |
| Fulfills EU RoHS substance requirements | Not applicable, Not qualified for the European market |
| EU REACH SVHC                           |                                                       |
| REACH candidate substance (CAS No.)     | No substance above 0.1 wt%                            |

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