

# SAC-3P-10,0-547/MINFR - Power cable



1416548

<https://www.phoenixcontact.com/us/products/1416548>

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Power cable, 3-position, PVC, yellow, free cable end, on Socket angled 7/8"-16UNF, coding: A, cable length: 10 m

## Your advantages

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

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1416548                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF14                           |
| Product key                          | AF1IMA                         |
| GTIN                                 | 4055626221311                  |
| 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                     |
| 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 $U_N$ | 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 <sub>F</sub> ·in. |
|                   | 1.12 Nm                 |

### Connector

#### Connection 1

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

#### Connection 2

|      |                          |
|------|--------------------------|
| Type | Socket angled 7/8"-16UNF |
|------|--------------------------|

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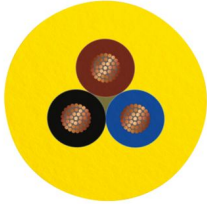
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|                     |   |
|---------------------|---|
| Number of positions | 3 |
| Coding type         | A |

## Cable/line

|              |      |
|--------------|------|
| Cable length | 10 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<br>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) |

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

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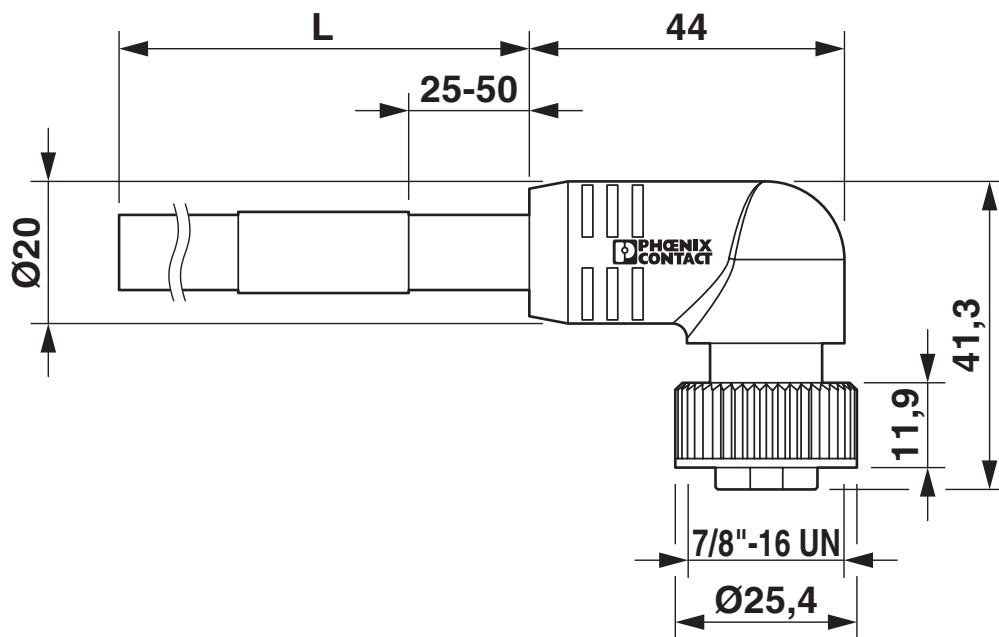


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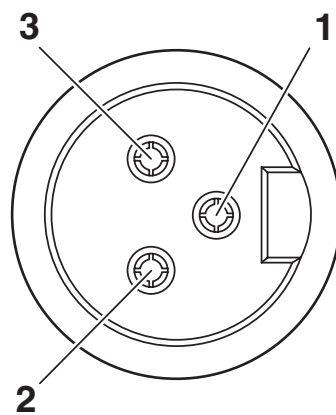
## Drawings

Dimensional drawing



7/8"-16UNF socket, angled

Schematic diagram



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

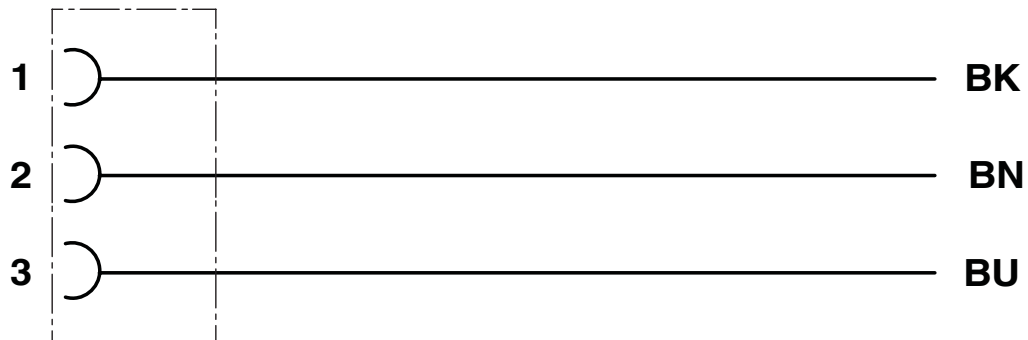
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Circuit diagram



Contact assignment of 7/8" socket

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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 | 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%               |

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