

# SAC-2P-MINMR/ 1,0-547/MINFS - Power cable



1416459

<https://www.phoenixcontact.com/us/products/1416459>

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

## Your advantages

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

## Commercial data

|                                      |                                |
|--------------------------------------|--------------------------------|
| Item number                          | 1416459                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF14                           |
| Product key                          | AF1IMA                         |
| GTIN                                 | 4055626220161                  |
| 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 $U_N$ | 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                | Plug angled 7/8"-16UNF |
| Number of positions | 2                      |
| Coding type         | A                      |

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## Connection 2

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

## Cable/line

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

## CMX-OUTDOOR-CMG [547]

|                                     |                                                                                                   |
|-------------------------------------|---------------------------------------------------------------------------------------------------|
| Number of positions                 | 2                                                                                                 |
| Shielded                            | no                                                                                                |
| Cable type                          | CMX-OUTDOOR-CMG [547]                                                                             |
| Conductor structure, voltage supply | 41 x AWG 34                                                                                       |
| Conductor cross-section             | 2 x AWG 18                                                                                        |
| External cable diameter             | 5.33 mm                                                                                           |
| Outer sheath, material              | PVC                                                                                               |
| External sheath, color              | yellow                                                                                            |
| Conductor material                  | Bare Cu litz wires                                                                                |
| Single wire, color                  | brown 1, blue 2                                                                                   |
| Nominal voltage, cable              | 300 V                                                                                             |
| Flame resistance                    | UL 1581, FT4                                                                                      |
| 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) |

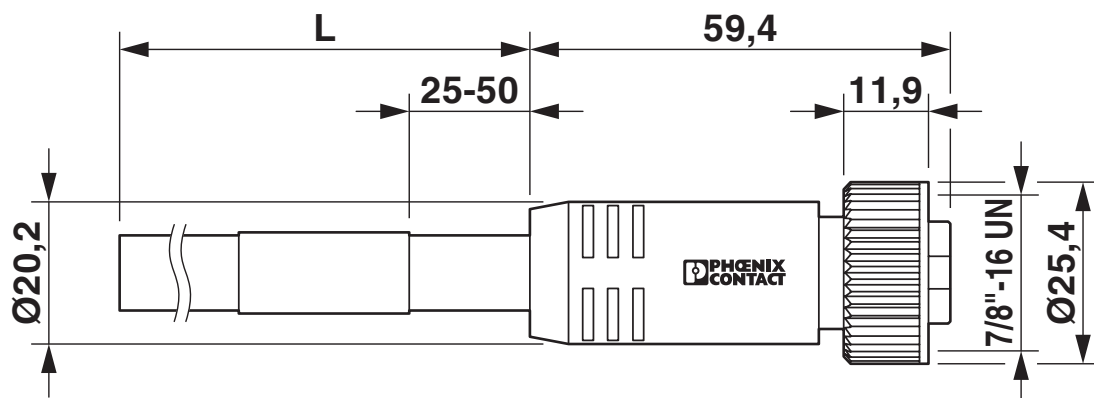
Drawings

Dimensional drawing



7/8"-16UNF plug, angled

Dimensional drawing



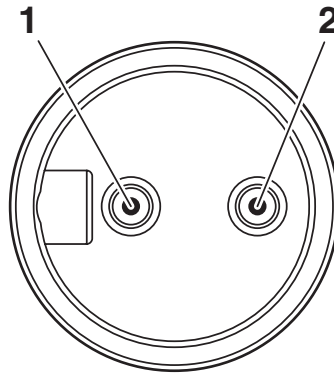
7/8"-16UNF socket, straight

# SAC-2P-MINMR/ 1,0-547/MINFS - Power cable

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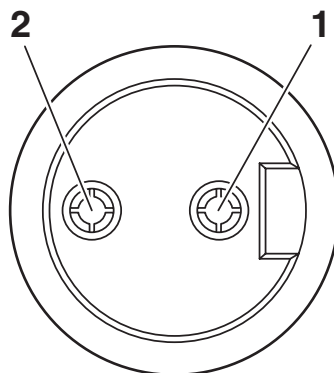
<https://www.phoenixcontact.com/us/products/1416459>

Schematic diagram



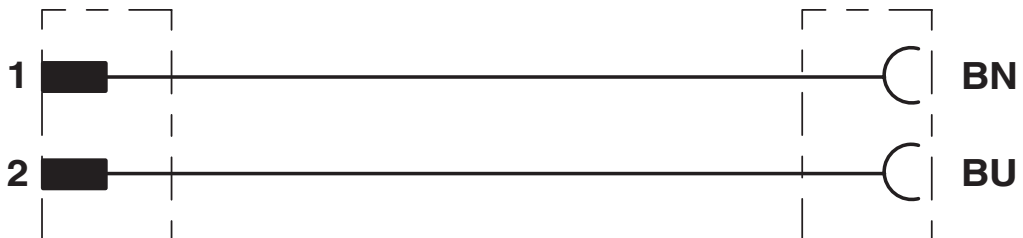
Pin assignment, plug, 7/8"-16UNF, 2-pos., view of male side

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 REACH SVHC

| REACH candidate substance (CAS No.) |  |
|-------------------------------------|--|
|-------------------------------------|--|

|  |                            |
|--|----------------------------|
|  | No substance above 0.1 wt% |
|--|----------------------------|

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