

1416586  
<https://www.phoenixcontact.com/us/products/1416586>

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Power cable, 5-position, PVC, yellow, Plug straight 7/8"-16UNF, 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                          | 1416586                        |
| Packing unit                         | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF14                           |
| Product key                          | BF1IMB                         |
| GTIN                                 | 4055626223131                  |
| Weight per piece (including packing) | 313 g                          |
| Weight per piece (excluding packing) | 313 g                          |
| Customs tariff number                | 85444290                       |
| Country of origin                    | MX                             |

# SAC-5P-MINMS/ 1,0-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 |
| Application          | Standard              |
| Number of positions  | 5                     |
| 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                   |
|                       | 600 V DC                   |
| Nominal current $I_N$ | 8 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

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## Connection 1

|                     |                          |
|---------------------|--------------------------|
| Type                | Plug straight 7/8"-16UNF |
| Number of positions | 5                        |

## Connection 2

|                     |                            |
|---------------------|----------------------------|
| Type                | Socket straight 7/8"-16UNF |
| Number of positions | 5                          |

## Cable/line

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

## Yellow, STOOW [U20]

|                                               |                                                  |
|-----------------------------------------------|--------------------------------------------------|
| Number of positions                           | 5                                                |
| Shielded                                      | no                                               |
| Cable type                                    | Yellow, STOOW [U20]                              |
| Conductor cross section                       | 5 x AWG 16                                       |
| External cable diameter                       | 12.70 mm                                         |
| Outer sheath, material                        | PVC                                              |
| External sheath, color                        | yellow                                           |
| Conductor material                            | Bare Cu litz wires                               |
| Single wire, color                            | white 1, red 2, green 3, orange 4, black 5       |
| 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   | 51 mm                                            |
| Smallest bending radius, movable installation | 159 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-5P-MINMS/ 1,0-U20/MINFS - Power cable

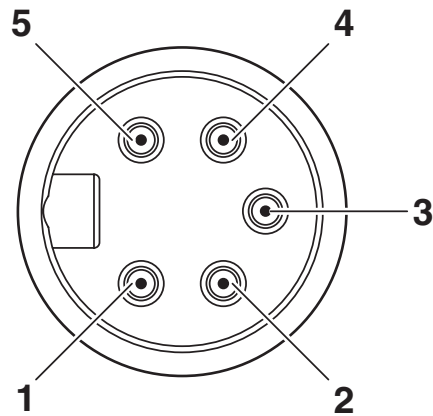
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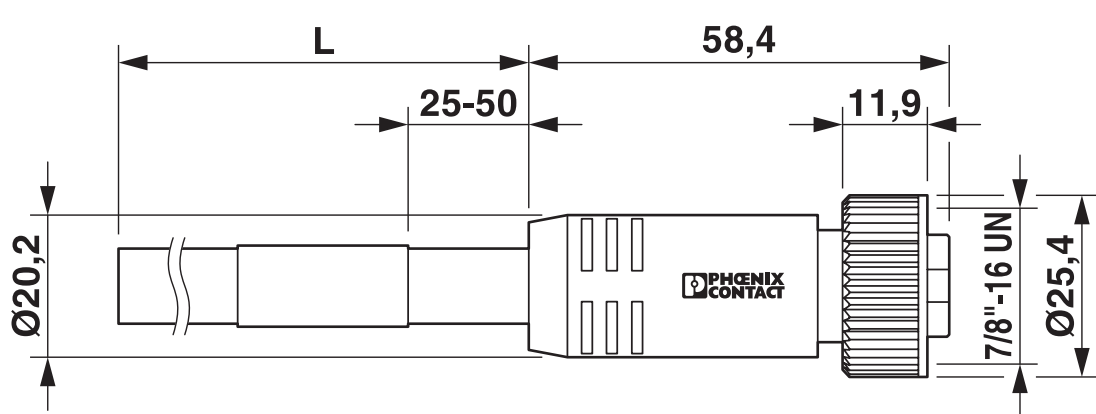
## Drawings

Schematic diagram



Pin assignment, plug, 7/8"-16UNF, 5-pos., view of male side

Dimensional drawing



7/8"-16UNF socket, straight

Circuit diagram

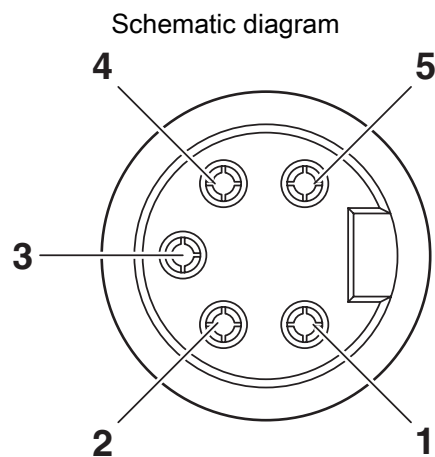


# SAC-5P-MINMS/ 1,0-U20/MINFS - Power cable

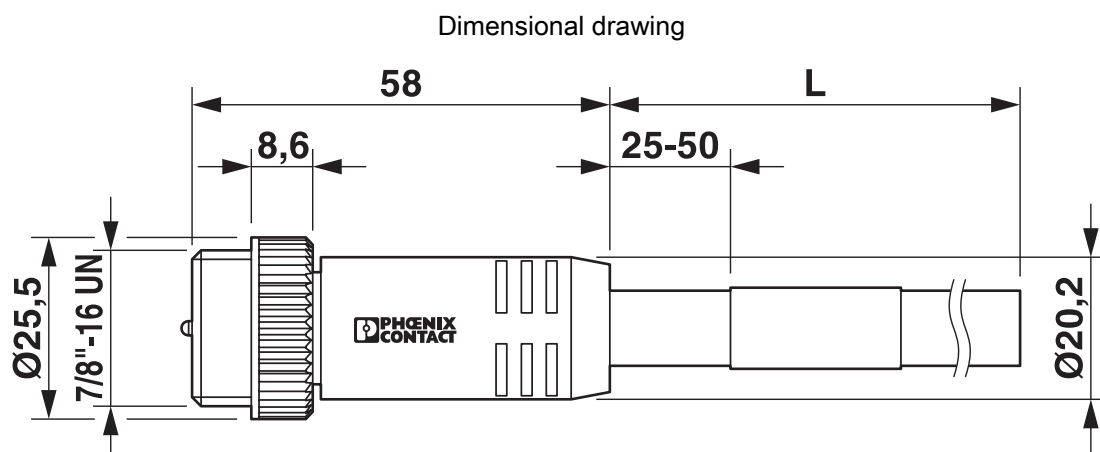


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Pin assignment, socket, 7/8"-16UNF, 5-pos., view of female side



7/8"-16UNF plug, straight

# SAC-5P-MINMS/ 1,0-U20/MINFS - Power cable



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## Approvals

 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1416586>



**UL Listed**

Approval ID: FILE E 221474



**cUL Listed**

Approval ID: FILE E 221474

**cULus Listed**

# SAC-5P-MINMS/ 1,0-U20/MINFS - Power cable



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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

### 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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## Accessories

### PROT-MINFS-PA-CHAIN - Sealing cap

1430912

<https://www.phoenixcontact.com/us/products/1430912>

7/8" sealing cap made of plastic with fixing band, for sensor cables, for 7/8" connectors



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### UCT-WMT (23X4) - Conductor marker

0801453

<https://www.phoenixcontact.com/us/products/0801453>

Conductor marker, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: insert, cable diameter range: 1.5 ... 35 mm, lettering field size: 23 x 4 mm, Number of individual labels: 30



# SAC-5P-MINMS/ 1,0-U20/MINFS - Power cable



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## UC-WMT (23X4) - Conductor marker

0819411

<https://www.phoenixcontact.com/us/products/0819411>



Conductor marker, Sheet, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, PLOTMARK, CMS-P1-PLOTTER, mounting type: insert, cable diameter range: 1.5 ... 35 mm, lettering field size: 23 x 4 mm, Number of individual labels: 24

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## US-WMT (23X4) - Cable marker

0828769

<https://www.phoenixcontact.com/us/products/0828769>



Cable marker, Card, white, unlabeled, can be labeled with: BLUEMARK ID COLOR, BLUEMARK ID, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: slide-on, cable diameter range: 1.5 ... 35 mm, lettering field size: 23 x 4 mm, Number of individual labels: 56

## SAC-5P-MINMS/ 1,0-U20/MINFS - Power cable

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## WMTW (23X4)R - Cable marker

0831004

<https://www.phoenixcontact.com/us/products/0831004>



Cable marker, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: insert, cable diameter range: 1.5 ... 35 mm, lettering field size: 23 x 4 mm, Number of individual labels: 3000

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## PROT-MINMS-PA-CHAIN - Screw plug

1430925

<https://www.phoenixcontact.com/us/products/1430925>

7/8" sealing cap made of plastic with fixing band, for sensor cables, for 7/8" sockets



## SAC-5P-MINMS/ 1,0-U20/MINFS - Power cable

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## B-STIFT - Marker pen

1051993

<https://www.phoenixcontact.com/us/products/1051993>



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 mm

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## TSD 08 SAC - Torque screwdriver

1212597

<https://www.phoenixcontact.com/us/products/1212597>



Torque screw driver with preset torque of 0.8 Nm, with 4 mm hexagon for accommodating SAC bits, two-component handle with non-slip grip

## SAC-5P-MINMS/ 1,0-U20/MINFS - Power cable

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## TSD-M 1,2NM - Torque screwdriver

1212224

<https://www.phoenixcontact.com/us/products/1212224>



Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm

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## TSD-M SAC-BIT ADAPTER - Adapter insert

1212600

<https://www.phoenixcontact.com/us/products/1212600>



Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

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## SAC BIT MIN-D25 - Tool

1212512

<https://www.phoenixcontact.com/us/products/1212512>

Nut for assembling 7/8" connectors with a knurl diameter of 25 mm, with 4 mm hexagonal drive



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