

1416849

<https://www.phoenixcontact.com/us/products/1416849>

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Power cable, 6-position, PVC, yellow, Plug angled 7/8"-16UNF, coding: A, 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                          | 1416849                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF14                           |
| Product key                          | BF1IMB                         |
| GTIN                                 | 4055626224138                  |
| 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-6P-MINMR/10,0-U20/MINFR - Power cable



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## Technical data

### Product properties

|                      |                       |
|----------------------|-----------------------|
| Product type         | Sensor/actuator cable |
| Application          | Standard              |
| Number of positions  | 6                     |
| 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

#### Connection 1

|                     |                        |
|---------------------|------------------------|
| Type                | Plug angled 7/8"-16UNF |
| Number of positions | 6                      |
| Coding type         | A                      |

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## Connection 2

|                     |                          |
|---------------------|--------------------------|
| Type                | Socket angled 7/8"-16UNF |
| Number of positions | 6                        |
| Coding type         | A                        |

## Cable/line

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

## Yellow, STOOW [U20]

|                                               |                                                    |
|-----------------------------------------------|----------------------------------------------------|
| Number of positions                           | 6                                                  |
| Shielded                                      | no                                                 |
| Cable type                                    | Yellow, STOOW [U20]                                |
| Conductor cross section                       | 6 x AWG 16                                         |
| External cable diameter                       | 13.70 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, blue 6 |
| 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   | 55 mm                                              |
| Smallest bending radius, movable installation | 172 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)   |

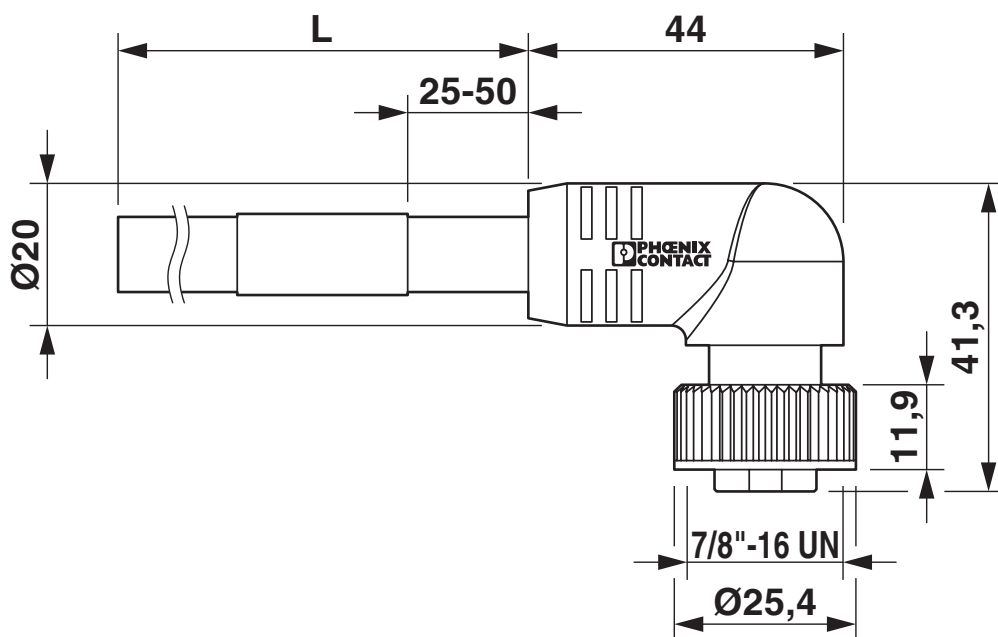
## Environmental and real-life conditions

### 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) |

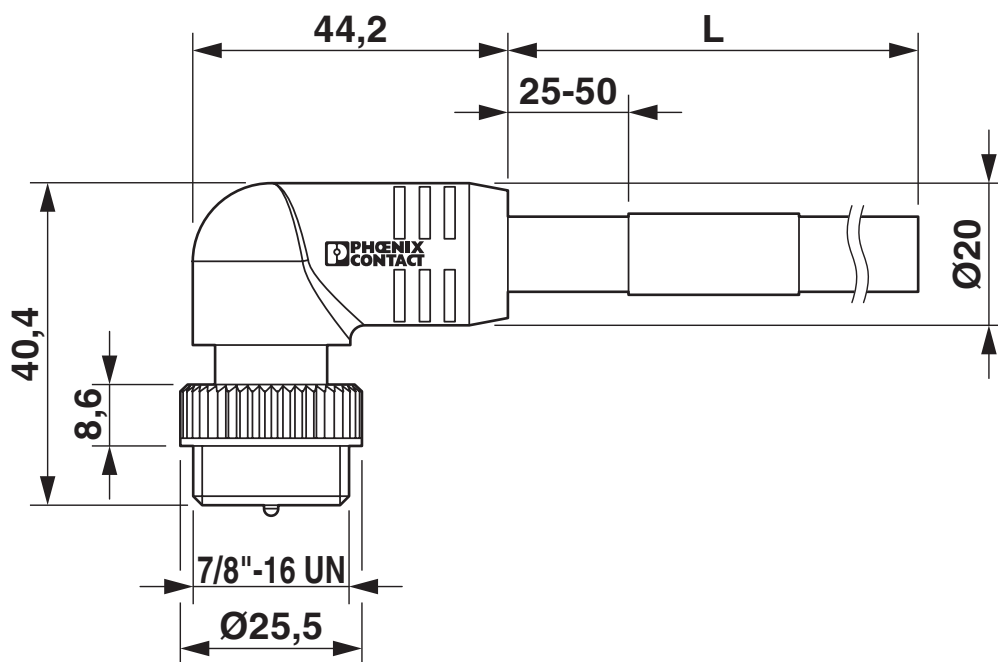
## Drawings

Dimensional drawing



7/8"-16UNF socket, angled

Dimensional drawing

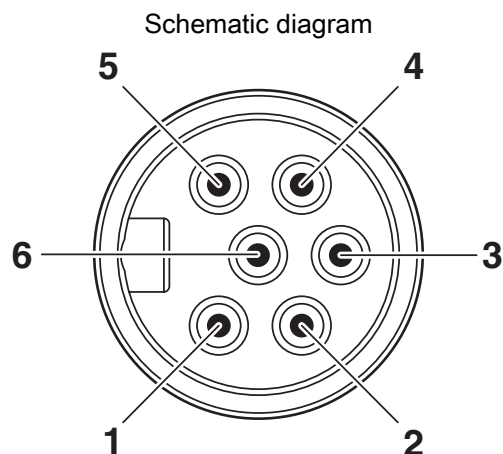


7/8"-16UNF plug, angled

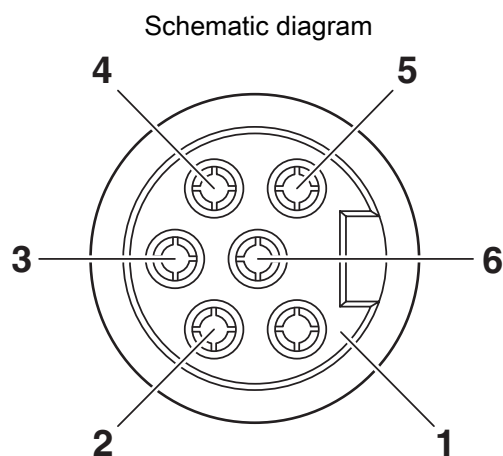
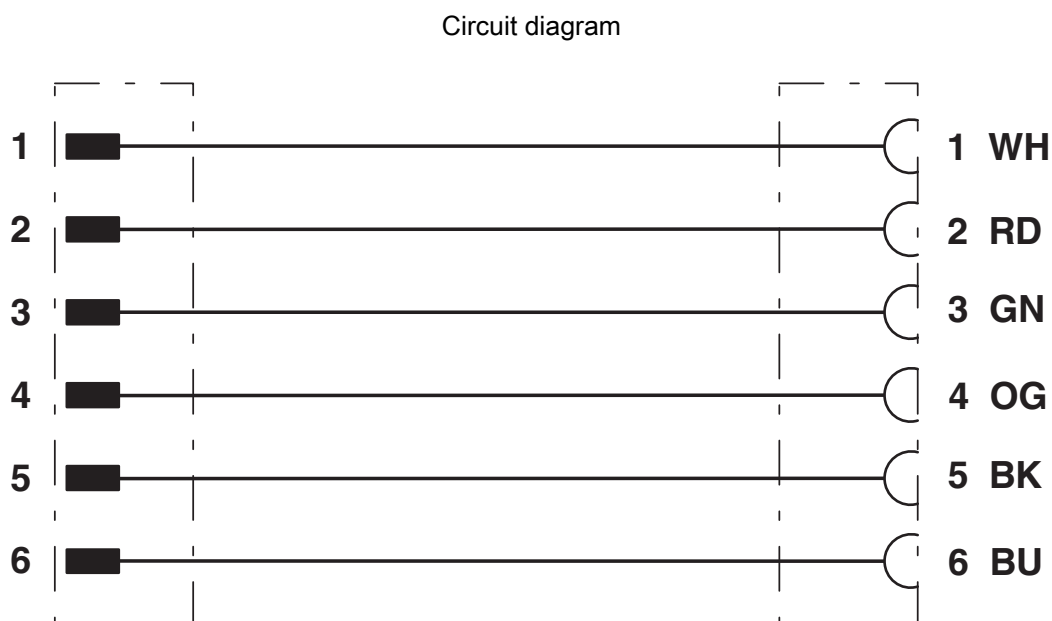
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Pin assignment, plug, 7/8"-16UNF, 6-pos., view of male side



Pin assignment, socket, 7/8"-16UNF, 6-pos., view of female side

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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 | 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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