

# SAC-3P- 5,0-U60/M12FSS PE - Power cable



1291425

<https://www.phoenixcontact.com/us/products/1291425>

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Power cable, 3-position, PVC, black, free cable end, on Socket straight M12, coding: S, cable length: 5 m

## Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Protection against incorrect connection using special S-coding

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1291425       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | BF75          |
| Product key                          | AF1IKA        |
| GTIN                                 | 4063151526474 |
| Weight per piece (including packing) | 22.22 g       |
| Weight per piece (excluding packing) | 22.22 g       |
| Country of origin                    | US            |

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## Technical data

### Product properties

|                      |               |
|----------------------|---------------|
| Product type         | Power cable   |
| Application          | Energy supply |
| Number of positions  | 3             |
| No. of cable outlets | 1             |
| Shielded             | no            |
| Coding               | S             |

### Insulation characteristics

|                      |     |
|----------------------|-----|
| Overvoltage category | III |
| Degree of pollution  | 3   |

### Material specifications

|                                        |                              |
|----------------------------------------|------------------------------|
| Flammability rating according to UL 94 | V0                           |
| Material of grip body                  | PP                           |
| Contact material                       | CuZn                         |
| Contact surface material               | Ni/Au                        |
| Contact carrier material               | PA                           |
| Material for screw connection          | Zinc die-cast, nickel-plated |

### Electrical properties

|                       |                                          |
|-----------------------|------------------------------------------|
| Insulation resistance | $\geq 100 \text{ M}\Omega$               |
| Nominal voltage $U_N$ | 600 V AC (Dielectric withstand 2.2KV AC) |
| Nominal current $I_N$ | 16 A                                     |

### Mechanical properties

#### Mechanical data

|                             |       |
|-----------------------------|-------|
| Insertion/withdrawal cycles | > 100 |
|-----------------------------|-------|

### Connector

#### Connection 1

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

#### Connection 2

|             |                     |
|-------------|---------------------|
| Type        | Socket straight M12 |
| Coding type | S (Power)           |

### Cable/line

|              |     |
|--------------|-----|
| Cable length | 5 m |
|--------------|-----|

#### TC-ER 600V [PVC]

|                     |   |
|---------------------|---|
| Number of positions | 3 |
|---------------------|---|

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|                                               |                                                 |
|-----------------------------------------------|-------------------------------------------------|
| Shielded                                      | no                                              |
| Cable type                                    | TC-ER 600V [PVC]                                |
| Conductor structure, voltage supply           | 41/30                                           |
| AWG power supply                              | 14                                              |
| Wire diameter incl. insulation                | 2.87 mm $\pm$ 0.05 mm                           |
| External cable diameter                       | 9.27 mm                                         |
| Outer sheath, material                        | PVC                                             |
| External sheath, color                        | black                                           |
| Conductor material                            | Bare Cu litz wires                              |
| Material wire insulation                      | PVC, nylon covering                             |
| Single wire, color                            | black, white, green                             |
| Thickness, insulation                         | approx. 0.50 mm (20 mil)                        |
| Thickness, outer sheath                       | approx. 1.40 mm (55 mil)                        |
| Nominal voltage, cable                        | 600 V                                           |
| Minimum bending radius, fixed installation    | 7 x D                                           |
| Minimum bending radius, flexible installation | 10 x D                                          |
| Dynamic load capacity (bending)               | Max. bending cycles: 2000000                    |
| Flame resistance                              | FT4                                             |
| Fire protection in rail vehicles              | UL TC-ER                                        |
| Other resistance                              | oil resistant                                   |
|                                               | sunlight resistant                              |
|                                               | direct burial                                   |
|                                               | water resistant                                 |
| Ambient temperature (operation)               | -40 °C ... 90 °C (cable, fixed installation)    |
|                                               | -40 °C ... 90 °C (Cable, flexible installation) |

## Environmental and real-life conditions

### Ambient conditions

|                                                                   |                                  |
|-------------------------------------------------------------------|----------------------------------|
| Degree of protection                                              | IP65                             |
|                                                                   | IP67                             |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 85 °C (Plug / socket) |

## Standards and regulations

|                          |                   |
|--------------------------|-------------------|
| Standard designation     | M12 connector     |
| Standards/specifications | IEC 61076-2-111   |
| Standards/specifications | UL 2237           |
| Note                     | Type 4 indoor, 12 |

# SAC-3P- 5,0-U60/M12FSS PE - Power cable

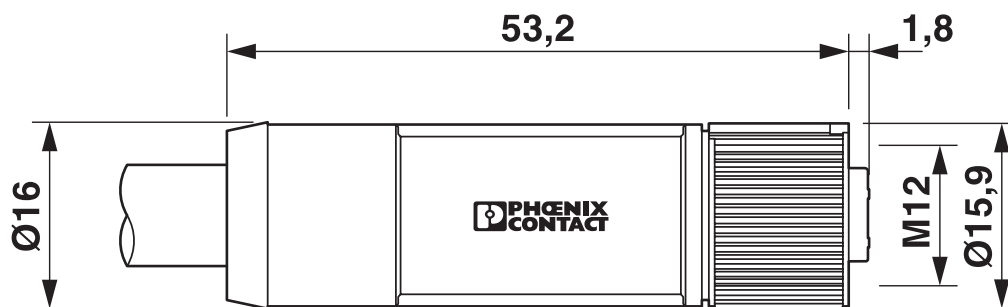


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## Drawings

Dimensional drawing



M12 x 1 socket, straight

Schematic diagram



Pin assignment of M12 socket, 3-pos., S-coded, socket side view

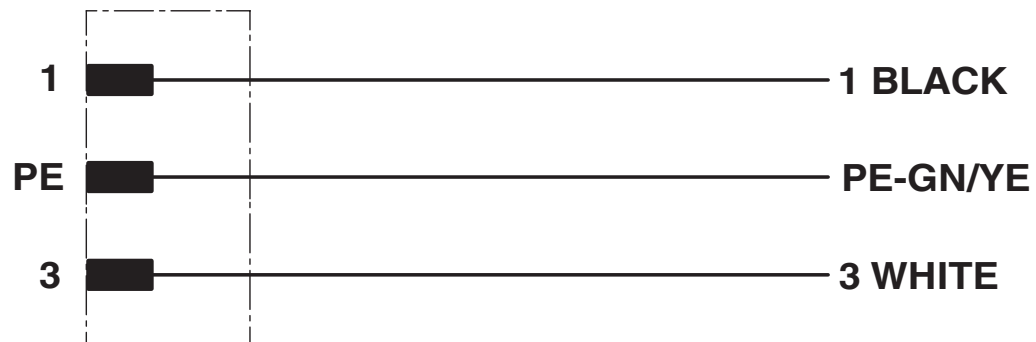
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Circuit diagram



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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27060327 |
| ECLASS-15.0 | 27060327 |

### ETIM

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

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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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## Accessories

### M12 POWER LOCK - Locking clip

1292631

<https://www.phoenixcontact.com/us/products/1292631>

Locking clip for the socket and plug side of M12 power products. Prevents the disconnection of plug-in connections without tools.



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### PROT M12 MS PWR - Screw plug

1092802

<https://www.phoenixcontact.com/us/products/1092802>

An M12 screw plug for the unoccupied M12 females of the M12 POWER connectors, boxes, and flush-type connectors



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## PROT-M12 FS - Sealing cap

1560251

<https://www.phoenixcontact.com/us/products/1560251>



M12 sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field

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## SAC BIT M12-D16 - Tool

1200305

<https://www.phoenixcontact.com/us/products/1200305>



Nut for assembling sensor/actuator cables with M12 connector and M12 connectors for assembly, knurl diameter: 16 mm, for 4 mm hexagonal drive

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