# SAC-5P-M12MSK/ 5,0-U60/FSKPESH - Power cable

1291349

https://www.phoenixcontact.com/us/products/1291349

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Power cable, 5-position, PVC, black, shielded (Advanced Shielding Technology), Plug straight M12, coding: K, on Socket straight M12, coding: K, cable length: 5 m

## Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Protection against mismatching, thanks to special K-coding
- Shield power reliably – 360° shielding to reduce electromagnetic loads

## Commercial data

| | |
|---|---|
| Item number | 1291349 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF75 |
| Product key | AF1IKJ |
| GTIN | 4063151527099 |
| Weight per piece (including packing) | 22.22 g |
| Weight per piece (excluding packing) | 22.22 g |
| Country of origin | US |

# Technical data

## Product properties

| | |
|---|---|
| Product type | Power cable |
| Application | Energy supply |
| Number of positions | 5 |
| No. of cable outlets | 1 |
| Shielded | yes |
| Coding | K |

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 | ≥ 100 MΩ |
| 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 | Plug straight M12 |
| Coding type | K (Power) |

Connection 2

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

## Cable/line

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

TC-ER 600V [PVC]

| | |
|---|---|
| Number of positions | 5 |
| Shielded | yes |
| Cable type | TC-ER 600V [PVC] |
| Conductor structure, voltage supply | 41/30 |
| AWG power supply | 14 |
| Wire diameter incl. insulation | 2.87 mm ±0.05 mm |
| External cable diameter | 10.92 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, red, blue, 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 | 10 x D |
| Minimum bending radius, flexible installation | 15 x D |
| Dynamic load capacity (bending) | Max. bending cycles: 1000000 |
| 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

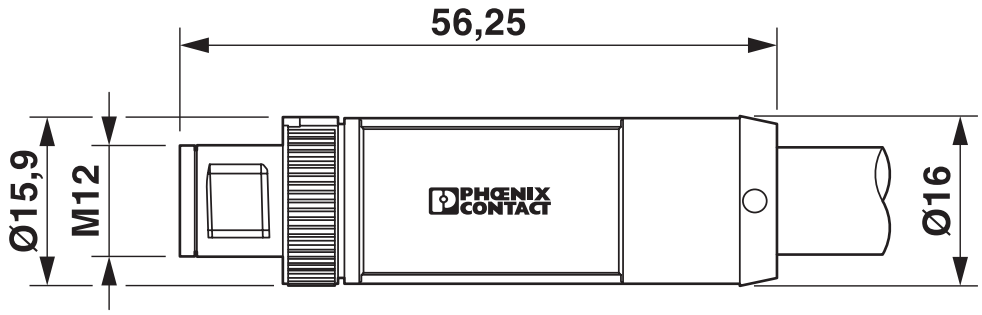
| | |
|---|---|
| Degree of protection | IP65 |
| | IP67 |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 85 °C (Plug / socket) |

## Standards and regulations

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

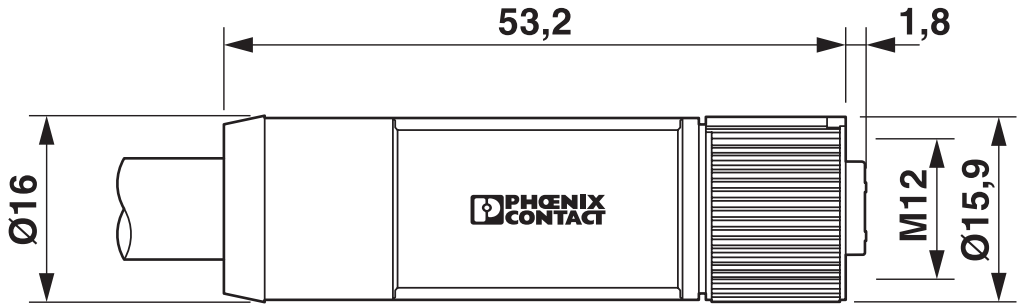
## Drawings

Dimensional drawing



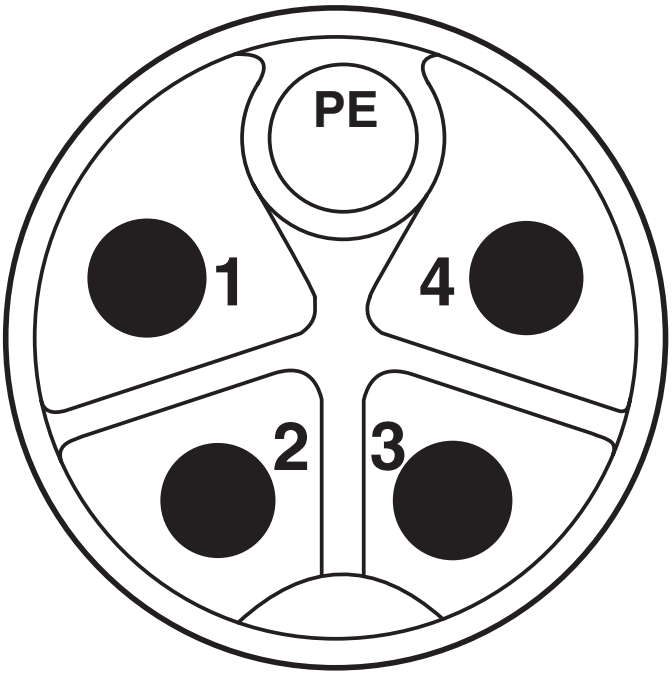

Plug, M12 x 1, straight, shielded

Dimensional drawing



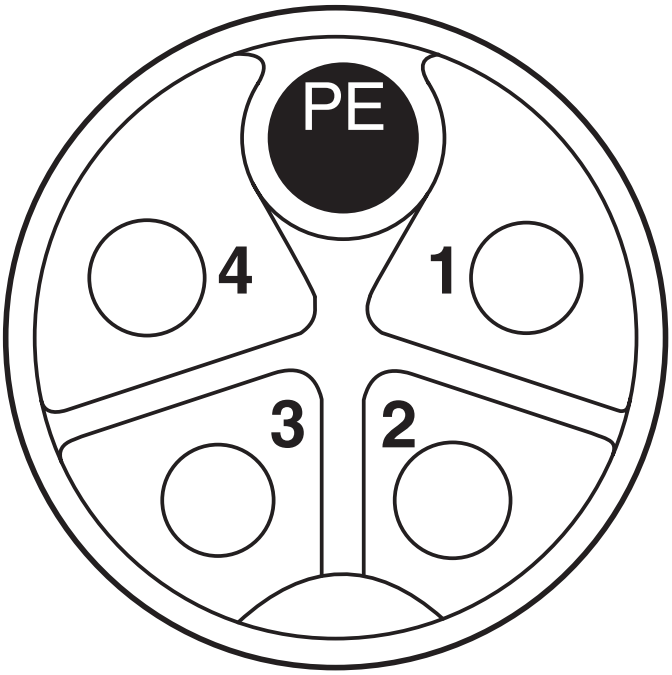

M12 x 1 socket, straight

Schematic diagram



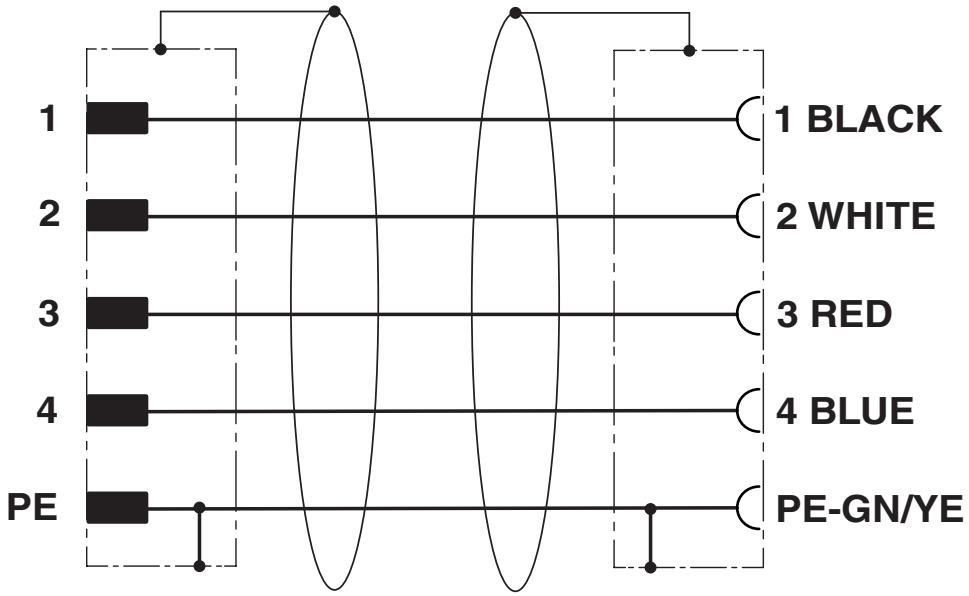

Connector pin assignment of M12 plug, 5-pos., K-coded, pin side view

Schematic diagram




Pin assignment of M12 socket, 5-pos., K-coded, socket side view

Circuit diagram



## Classifications

### ECLASS

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

### ETIM

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

## 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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