

SAC-4P-M12MST/ 0,3-PUR/M12FST - Power cable



1408806

<https://www.phoenixcontact.com/us/products/1408806>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Power cable, 4-position, PUR halogen-free, black-gray RAL 7021, Plug straight M12, coding: T, on Socket straight M12, coding: T, cable length: 0.3 m, For direct current up to 12 A/63 V

Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Protection against incorrect connection using special T-coding
- Our standard: robust halogen-free PUR cable

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1408806 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF05 |
| Product key | AF1CCQ |
| GTIN | 4046356838702 |
| Weight per piece (including packing) | 68 g |
| Weight per piece (excluding packing) | 74 g |
| Customs tariff number | 85444290 |
| Country of origin | PL |

Technical data

Product properties

| | |
|----------------------|---------------|
| Product type | Power cable |
| Application | Energy supply |
| Number of positions | 4 |
| No. of cable outlets | 1 |
| Shielded | no |
| Coding | T |

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 | 63 V DC |
| Nominal current I_N | 12 A |

Mechanical properties

Mechanical data

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

Connector

Connection 1

| | |
|-------------|-------------------|
| Type | Plug straight M12 |
| Coding type | T (Power) |

Connection 2

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

Cable/line

| | |
|--------------|-------|
| Cable length | 0.3 m |
|--------------|-------|

PUR halogen-free black [PUR]

SAC-4P-M12MST/ 0,3-PUR/M12FST - Power cable



1408806

<https://www.phoenixcontact.com/us/products/1408806>

| | |
|-----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Dimensional drawing |  |
| Cable weight | 83 kg/km |
| UL AWM Style | 20549 / 10493 (80°C/300 V) |
| Number of positions | 4 |
| Shielded | no |
| Cable type | PUR halogen-free black [PUR] |
| Conductor structure, voltage supply | 44x 0.20 mm |
| AWG power supply | 16 |
| Conductor cross-section | 4x 1.5 mm ² |
| Wire diameter incl. insulation | 2.2 mm ±0.05 mm |
| External cable diameter | 6.75 mm ±0.2 mm |
| Outer sheath, material | PUR |
| External sheath, color | black-gray RAL 7021 |
| Conductor material | Bare Cu litz wires |
| Material wire insulation | PP |
| Single wire, color | brown, white, blue, black |
| Thickness, insulation | ≥ 0.26 mm |
| Thickness, outer sheath | approx. 0.70 mm |
| Overall twist | 4 wires, twisted |
| Max. conductor resistance | ≤ 14.1 Ω/km (at 20 °C) |
| Insulation resistance | ≥ 1 GΩ*km (at 20 °C) |
| Nominal voltage, cable | ≤ 300 V AC |
| Test voltage | ≥ 3000 V AC (Spark test) |
| Minimum bending radius, fixed installation | 5 x D |
| Minimum bending radius, flexible installation | 10 x D |
| Smallest bending radius, fixed installation | 34 mm |
| Smallest bending radius, movable installation | 68 mm |
| Dynamic load capacity (bending) | Max. bending cycles: 5000000, Bending radius: 10 x D, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s ² |
| Dynamic load capacity (torsion) | Torsion: ±180 °/m, Torsion cycles: 500000, Torsional frequency: 35 cycles/min. |
| Halogen-free | in accordance with DIN VDE 0472 part 815 in accordance with DIN EN 50267-2-1 |
| Flame resistance | According to UL 758/1581 (Cable Flame) in accordance with UL 758/1581 FT2 according to DIN EN 60332-2-2 |

SAC-4P-M12MST/ 0,3-PUR/M12FST - Power cable



1408806

<https://www.phoenixcontact.com/us/products/1408806>

| | |
|---------------------------------|-------------------------------------------------------------|
| Resistance to oil | according to DIN EN 60811-404, 168 h at 100 °C |
| | according to UL 758, 168 h at 60 °C |
| Other resistance | Hydrolysis and microbe resistant as per VDE 0282 section 10 |
| | Low adhesion |
| | abrasion-resistant |
| | Resistant to salt water |
| Special properties | Flexible cable conduit capable |
| Ambient temperature (operation) | -50 °C ... 80 °C (cable, fixed installation) |
| | -30 °C ... 80 °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 |

SAC-4P-M12MST/ 0,3-PUR/M12FST - Power cable



1408806

<https://www.phoenixcontact.com/us/products/1408806>

Drawings

Dimensional drawing



Plug, M12 x 1, straight

Dimensional drawing



M12 x 1 socket, straight

Schematic diagram



Pin assignment for M12 plug, 4-pos., T-coded, view of plug side

Schematic diagram



Pin assignment of M12 socket, 4-pos., T-coded, socket side view



Base curve

Circuit diagram



Contact assignment of the M12 connector and the M12 socket

SAC-4P-M12MST/ 0,3-PUR/M12FST - Power cable



1408806

<https://www.phoenixcontact.com/us/products/1408806>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1408806>

|  UL Listed Approval ID: E468743 | | | | |
|----------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 63 V | 12 A | - 16 | - 16 |

|  cUL Listed Approval ID: E468743 | | | | |
|-----------------------------------------------------------------------------------------------------------------------------|-----------------------|-----------------------|-------------------|-----------------------------|
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| keine | | | | |
| | 63 V | 12 A | - 16 | - |

|  EAC-RoHS Approval ID: RU D-DE.HB35.B.00387 | |
|------------------------------------------------------------------------------------------------------------------------------------------|--|
|------------------------------------------------------------------------------------------------------------------------------------------|--|

SAC-4P-M12MST/ 0,3-PUR/M12FST - Power cable



1408806

<https://www.phoenixcontact.com/us/products/1408806>

Classifications

ECLASS

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

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC001855 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 26121600 |
|-------------|----------|

SAC-4P-M12MST/ 0,3-PUR/M12FST - Power cable



1408806

<https://www.phoenixcontact.com/us/products/1408806>

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% |
|-------------------------------------|----------------------------|

EF3.1 Climate Change

| | |
|---------|-------------|
| CO2e kg | 2.4 kg CO2e |
|---------|-------------|

Phoenix Contact 2026 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com