

1027465
<https://www.phoenixcontact.com/us/products/1027465>

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Power connector, Power, 4-position, shielded, Plug straight M12, coding: T, Crimp connection, knurl material: Zinc die-cast, tin-plated, external cable diameter 6.5 mm ... 11 mm, without crimp contacts, Contact 4 leading

Your advantages

- Extremely compact, thanks to the small wiring space and high contact density
- Safely shielded: reliable shield connection even under extreme mechanical strain
- Robust connection: suitable for railway applications with high shock and vibration loads
- High-performance: DC connectors for up to 12 A and 63 V DC
- Protection against incorrect connection using special T-coding

Commercial data

| | |
|--------------------------------------|---------------------|
| Item number | 1027465 |
| Packing unit | 1 pc |
| Sales key | BF34 |
| Product key | BF2CJB |
| Catalog page | Page 278 (C-2-2019) |
| GTIN | 4055626522203 |
| Weight per piece (including packing) | 42.78 g |
| Weight per piece (excluding packing) | 22.22 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

SACC-M12MST-4CT-CM SH - Power connector



1027465

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Technical data

Notes

| | |
|---------|--|
| General | NOTE: Observe the permissible bending radii when laying conductors, since the degree of protection may be put in jeopardy if the bending forces are too high. Alleviate mechanical loads upstream of the connector, e.g. by using cable ties. |
|---------|--|

Mounting

| | |
|-------------------|------------------|
| Connection method | Crimp connection |
|-------------------|------------------|

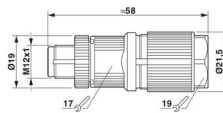
Product properties

| | |
|----------------------|---------------------------------|
| Product type | Circular connector (cable-side) |
| Sensor type | Power |
| Number of positions | 4 |
| Application | Power supply |
| No. of cable outlets | 1 |
| Shielded | yes |
| Coding | T |
| Cable outlet | straight |

Insulation characteristics

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

Dimensions

| | |
|---------------------|--|
| Dimensional drawing |  |
| Length | 58 mm |

External dimensions

| | |
|------------------|------------------|
| Outside diameter | 6.5 mm ... 11 mm |
|------------------|------------------|

Housing

| | |
|------------------|---------|
| Diameter housing | 21.5 mm |
|------------------|---------|

Material specifications

| | |
|--|------------------------------|
| Flammability rating according to UL 94 | V0 |
| Material of grip body | Zinc die-cast, nickel-plated |
| Contact carrier material | PA |
| Material for screw connection | Zinc die-cast, tin-plated |

Connection data

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Conductor connection

| | |
|------------------------------|--|
| Connection method | Crimp connection |
| Connection cross section | 1.5 mm ² ... 2.5 mm ² (flexible) |
| Connection cross section AWG | 14 (flexible) |
| Tightening torque | 5 Nm (Pressure nut with coupling sleeve) |

Pin assignment

| | |
|---|--------|
| Contact Color (signal designation) Contact (optional) | 1 = BN |
| | 2 = WH |
| | 3 = BU |
| | 4 = BK |

Electrical properties

| | |
|--------------------------------|--|
| Rated surge voltage | 1.5 kV |
| Insulation resistance | ≥ 100 MΩ |
| Nominal voltage U _N | 63 V DC |
| Nominal current I _N | 12 A (when using 1.5 mm ² conductors) |
| | 12 A (at 40 °C) |

Mechanical properties

Mechanical data

| | |
|-----------------------------|-------|
| Insertion/withdrawal cycles | ≥ 100 |
|-----------------------------|-------|

Connector

Connection 1

| | |
|-------------------|----------|
| Head design | Plug |
| Head cable outlet | straight |
| Head thread type | M12 |
| Coding | T |

Cable/line

| | |
|----------------------|-------|
| Signal type/category | Power |
|----------------------|-------|

Environmental and real-life conditions

Ambient conditions

| | |
|---------------------------------|----------------------------------|
| Degree of protection | IP65 |
| Ambient temperature (operation) | -40 °C ... 85 °C (Plug / socket) |

Standards and regulations

| | |
|--------------------------|--------------------------|
| Standard designation | M12 connector |
| Standards/specifications | based on IEC 61076-2-111 |

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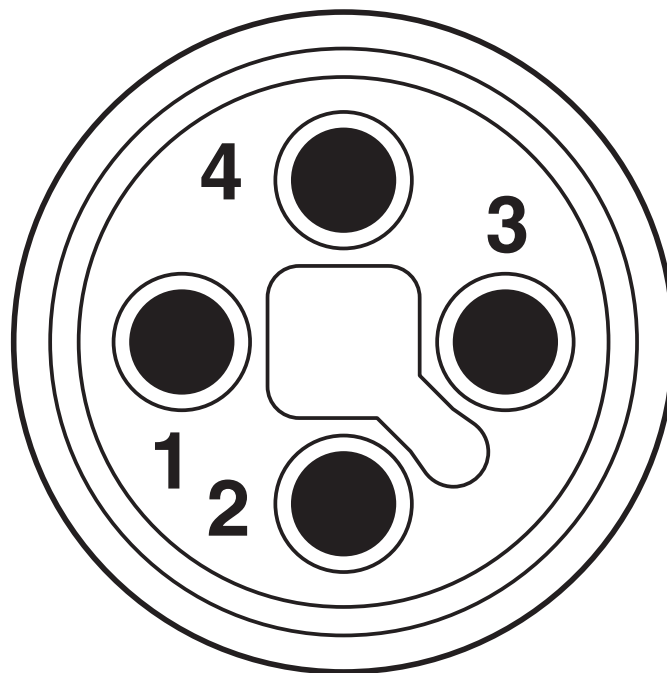


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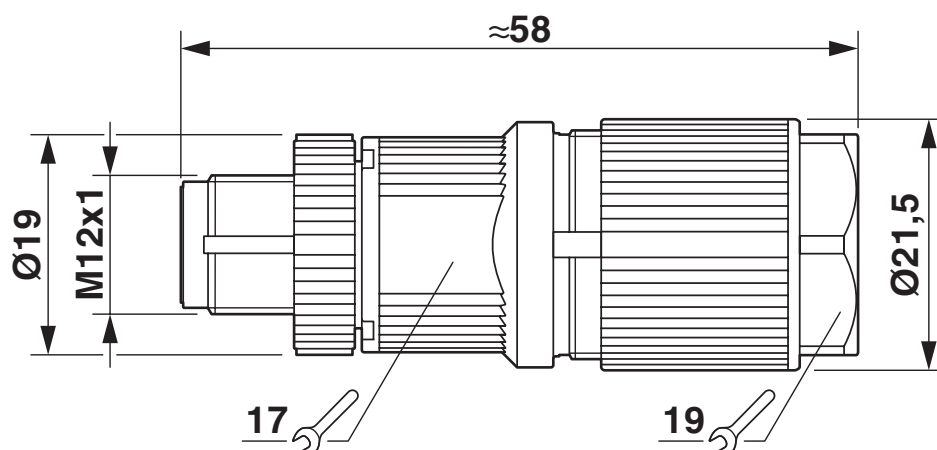
Drawings

Schematic diagram



Connector pin assignment of M12 plug, 4-pos., T-coded, view of pin side

Dimensional drawing



Plug, M12 x 1, straight, shielded

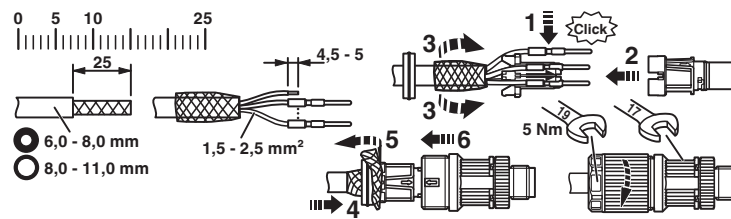
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Functional drawing



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Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1027465>

| | | | | |
|---|---|-----------------------|-------------------|-----------------------------|
|  | cULus Recognized Approval ID: E468743 | | | |
| | Nominal voltage U_N | Nominal current I_N | Cross section AWG | Cross section mm^2 |
| | 600 V | 12 A | - 14 | - |

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-11.0 | 27440102 |
| ECLASS-12.0 | 27440116 |
| ECLASS-13.0 | 27440116 |

ETIM

| | |
|----------|----------|
| ETIM 9.0 | EC002635 |
|----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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Environmental product compliance

| | |
|------------|---|
| China RoHS | Environmentally friendly use period: unlimited = EFUP-e |
| | No hazardous substances above threshold values |

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Mandatory accessories

CC1,5-TS-2,10M AU - Crimp contact

1029394

<https://www.phoenixcontact.com/us/products/1029394>



Crimp contact, contact diameter: 1.5 mm, turned, Pin, contact material: CuZn, contact surface: Ni/Au, connection cross section: 1.5 mm² ... 1.5 mm², AWG 14 ... 14

CC1,5-TS-2,50M AU - Crimp contact

1029388

<https://www.phoenixcontact.com/us/products/1029388>



Crimp contact, contact diameter: 1.5 mm, turned, Pin, contact material: CuZn, contact surface: Ni/Au, connection cross section: 2.5 mm² ... 2.5 mm², AWG 14

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CC1,5-TS-2,10MPE AU - Crimp contact

1029398

<https://www.phoenixcontact.com/us/products/1029398>



Crimp contact, contact diameter: 1.5 mm, turned, Pin, contact material: CuZn, contact surface: Ni/Au, connection cross section: 1.5 mm² ... 1.5 mm², AWG 14, for the PE or functional ground connection

CC1,5-TS-2,50MPE AU - Crimp contact

1029389

<https://www.phoenixcontact.com/us/products/1029389>



Crimp contact, contact diameter: 1.5 mm, turned, Pin, contact material: CuZn, contact surface: Ni/Au, connection cross section: 2.5 mm² ... 2.5 mm², AWG 14 ... 14, for the PE or functional ground connection

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CRIMPFOX-TC MP-6 - Crimping pliers with digital display

1202888

<https://www.phoenixcontact.com/us/products/1202888>



Crimping tool, for turned contacts, universal cross-section setting, up to a maximum of 6.0 mm², digital display with 0.01 mm increments, pressure lock can be unlocked, positioning tool necessary as an accessory for contact positioning

Accessories

CRIMPFOX-TC MP/LOC-1 - Spare locator

1142829

<https://www.phoenixcontact.com/us/products/1142829>



Locator for CRIMPFOX-TC MP6

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WIREFOX 2,5 - Stripping tool

1212368

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Stripping tool, for conductors and cables with a conductor cross section from 0.08 to 2.5 mm², self-adjusting, stripping length adjustable up to 15 mm, cutting capacity up to 6 mm² stranded/1.5 mm² solid

WIREFOX-D 40 - Stripping tool

1212161

<https://www.phoenixcontact.com/us/products/1212161>



Stripping tool, for stripping cables of 4.5 mm - 40 mm-Ø, insulation thickness of up to 4.5 mm, pivoting blade for round, lengthwise, and spiral cuts

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