**PHŒNIX CONTACT**

# Connector - SACC-P12MR-5CT-CM SH - 1021816

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's documentation. Our General Terms of Use for Downloads are valid (http://phoenixcontact.com/download)

Connector, Universal, 5-position, shielded, Plug angled M12 Push-Pull, A-coded, Crimp connection, knurl material: PA 6.6, external cable diameter 4.5 mm ... 7.5 mm, without crimp contacts

## Why buy this product

☑ Plug and Produce: convenient and secure connection, thanks to the manufacturer-independent locking system

☑ Extremely compact, thanks to the small wiring space and high contact density

☑ Clear feedback: the connector springs back when not snapped into place correctly

☑ Safely shielded: reliable shield connection even under extreme mechanical strain

☑ Robust connection: suitable for railway applications with high shock and vibration loads

☑ Automated processing possible

**RoHS**

## Key Commercial Data

| Packing unit | 1 STK |
|---|---|
| GTIN | 4 055626 514659 |
| GTIN | 4055626514659 |
| Weight per Piece (excluding packing) | 43.900 g |
| Custom tariff number | 85366990 |
| Country of origin | Germany |

## Technical data

### Dimensions

| Wrench size, union nut | 15 mm |
|---|---|
| Diameter housing | 22 mm |
| Length | 53 mm |
| External cable diameter | 4.5 mm ... 7.5 mm |
| Stripping length of the sheath | 18 mm |
| Stripping length of the individual wire | 4 mm +0,5 mm |

### Ambient conditions

# Connector - SACC-P12MR-5CT-CM SH - 1021816

## Technical data

### Ambient conditions

| Ambient temperature (operation) | -40 °C ... 85 °C (Plug / socket) |
|---|---|
| Degree of protection | IP65 |
|  | IP67 |
|  | IP68 |
|  | IP69K |

### General

| Rated current at 40°C | 4 A |
|---|---|
| Rated voltage | 48 V AC |
|  | 60 V DC |
| Number of positions | 5 |
| Insulation resistance | ≥ 100 Ω |
| Coding | A - standard |
| Standards/regulations | M12 connector IEC 61076-2-101 In line with |
|  | Shock, vibration EN 50155:2001 |
| Signal type/category | Universal |
| Status display | No |
| Overvoltage category | III |
| Degree of pollution | 3 |
| Connection method | Crimp connection |
| Conductor cross section | 0.34 mm² ... 1 mm² (flexible) |
| Conductor cross section AWG | 22 ... 18 (flexible) |
| Wire diameter incl. insulation | ≤ 2.55 mm (Contact 5 up to max. 2.0 mm) |
| Insertion/withdrawal cycles | ≥ 100 |
| Torque | 1.5 Nm (Screw plug insert with sleeve housing as far it will go) |
|  | 4 Nm (Pressure nut with coupling sleeve) |

### Material

| Flammability rating according to UL 94 | V0 |
|---|---|
| Contact carrier material | PA 6.6 |
| Material of grip body | Zinc die-cast, nickel-plated |
| Material, knurls | PA 6.6 |
| Sealing material | NBR |
| Standards/regulations | PA 6.6: Fire protection in rail vehicles - requirement sets R22, R23, R24, and R26 acc. to DIN EN 45545-2 (Risk level HL1 - HL3) |

### Cable

| Standards/specifications | M12 connector IEC 61076-2-101 In line with |
|---|---|
|  | Shock, vibration EN 50155:2001 |

### Standards and Regulations

| Standard designation | M12 connector |
|---|---|
| Standards/regulations | IEC 61076-2-101 |

**PHŒNIX CONTACT**

# Connector - SACC-P12MR-5CT-CM SH - 1021816

## Technical data

### Standards and Regulations

| Standard designation | Shock, vibration |
|---|---|
| Standards/regulations | EN 50155:2001 |
| Flammability rating according to UL 94 | V0 |

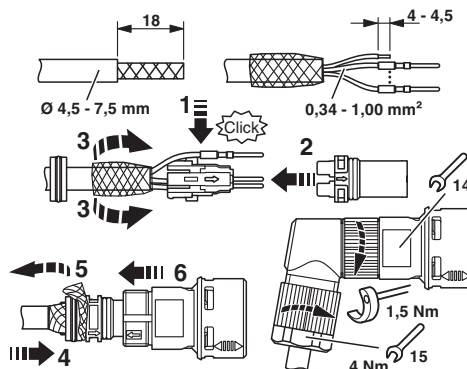### Environmental Product Compliance

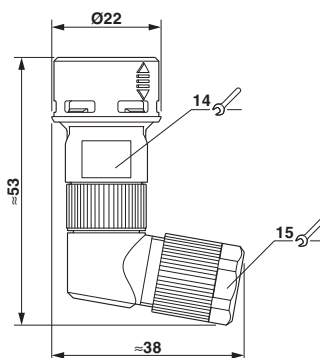| China RoHS | Environmentally Friendly Use Period = 50 |
|---|---|
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

## Drawings

Schematic diagram
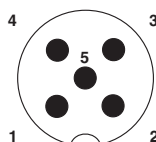


Functional drawing



Dimensional drawing



## Classifications

### eCl@ss

| eCl@ss 9.0 | 27440102 |
|---|---|

### ETIM

| ETIM 5.0 | EC002062 |
|---|---|
| ETIM 6.0 | EC002062 |

PHŒNIX CONTACT

# Connector - SACC-P12MR-5CT-CM SH - 1021816

## Approvals

### Approvals

---

Approvals

EAC

---

Ex Approvals

---

### Approval details

| EAC | EAC | RU C-DE.AI30.B.01102 |
|---|---|---|

## Accessories

### Accessories
Crimp contact

Crimp contact - CC1,0-TS-1,00M AU - 1423645

Crimp contact, contact diameter: 1 mm, turned, Pin, contact material: CuZn, contact surface: Ni/Au, connection cross section: 0.34 mm² ... 1 mm² AWG 22 ... 18

---

Crimping tool

Crimping pliers - CRIMPFOX-TC MP - 1212510

Crimping pliers, for turned contacts, universal cross section setting, up to a maximum of 2.5 mm², digital display with 0.01 mm increments, pressure lock can be unlocked, including positioning tool

---

Electronics pliers

Diagonal cutter - MICROFOX-SB - 1212489

Electronic diagonal cutter, round head, without chamfer, with opening spring, mirror-polished and oiled, 2-component grip, cutting capacity: soft 0.2 - 2.0 mm; medium hard 1.2 mm; hard 0.5 mm diameter

# Connector - SACC-P12MR-5CT-CM SH - 1021816

## Accessories

### Stripping tool

Stripping tool - WIREFOX-D 13 - 1212162

Stripping tool, for stripping installation lines of Ø 8 - 13 mm , e.g. NYM 3 x 1.5 mm² to 5 x 2.5 mm², single line stripping 0.2 mm² - 4 mm² , with longitudinal cut blade and sliding knife

Stripping tool - WIREFOX SAC - 1212623

Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from Ø of 4.4 to 7 mm, any stripping length

### Necessary add-on products

Crimp contact - CC1,0-TS-1,00M AU - 1423645

Crimp contact,  contact diameter: 1 mm,  turned,  Pin,  contact material: CuZn,  contact surface: Ni/Au,  connection cross section: 0.34 mm² ... 1 mm²  AWG 22 ... 18

Phoenix Contact 2018 © - all rights reserved
http://www.phoenixcontact.com