

SACC-PO12MRD-4CT-CL SH PN - Data connector



1177419

<https://www.phoenixcontact.com/us/products/1177419>

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.



Data connector, PROFINET CAT5 (100 Mbps), 4-position, shielded, Plug angled M12 Push-pull external locking, coding: D, Crimp connection, knurl material: PA 6.6, external cable diameter 6.5 mm ... 10 mm, without crimp contacts

Your advantages

- 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

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 1177419 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | BF34 |
| Product key | BF2CJN |
| GTIN | 4063151210649 |
| Weight per piece (including packing) | 22.22 g |
| Weight per piece (excluding packing) | 22.22 g |
| Customs tariff number | 85366990 |
| Country of origin | DE |

Technical data

Notes

| | |
|---------------|---|
| General | This product corresponds to the PROFINET Cabling and Interconnection Technology Guideline for PROFINET regulations, version 2.00, order no: 2.252, Chapter 8.2 Connectors for Outside Environment (Balanced cabling) |
| Assembly note | NOTE: Observe the permissible bending radii when routing cables, since the degree of protection may be at risk if the bending forces are too high. Reduce mechanical loads upstream of the connector, e.g., by using cable ties. |

Mounting

| | |
|---------------|--|
| Assembly note | Contacts can be clipped in place and unclipped without tools The pin assignment can be rotated in a 30° pitch to the cable outlet |
|---------------|--|

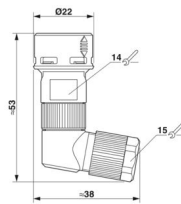
Product properties

| | |
|----------------------|---------------------------------|
| Product type | Circular connector (cable-side) |
| Sensor type | PROFINET |
| Number of positions | 4 |
| No. of cable outlets | 1 |
| Shielded | yes |
| Coding | D |
| Cable outlet | angled |

Insulation characteristics

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

Dimensions

| | |
|--------------------------|--|
| Dimensional drawing |  |
| Length | 53 mm |
| Wrench size, union nut | 15 mm |
| Wrench size, counter nut | 14 mm |

External dimensions

| | |
|------------------|------------------|
| Outside diameter | 6.5 mm ... 10 mm |
|------------------|------------------|

Housing

| | |
|------------------|-------|
| Diameter housing | 22 mm |
|------------------|-------|

SACC-PO12MRD-4CT-CL SH PN - Data connector



1177419

<https://www.phoenixcontact.com/us/products/1177419>

Material specifications

| | |
|--|--|
| Flammability rating according to UL 94 | V0 |
| Seal material | NBR |
| Material of grip body | Zinc die-cast, nickel-plated |
| Contact carrier material | PA 6.6 |
| Material for screw connection | PA 6.6 |
| 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) |

Connection data

Conductor connection

| | |
|---|--|
| Connection method | Crimp connection |
| Connection cross section | 0.14 mm ² ... 1 mm ² (flexible) |
| Connection cross section AWG | 26 ... 18 (flexible) |
| Stripping length of the individual wire | 4 mm +0,5 mm |
| Tightening torque | 1.5 Nm (Screw plug insert with sleeve housing as far it will go) 4 Nm (Pressure nut with coupling sleeve) |

Electrical properties

| | |
|--------------------------------|----------|
| Rated surge voltage | 2.5 kV |
| Insulation resistance | ≥ 100 MΩ |
| Nominal voltage U _N | 48 V AC |
| | 60 V DC |
| Nominal current I _N | 4 A |

Mechanical properties

Mechanical data

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

Connector

Connection 1

| | |
|-------------------|----------------------------|
| Head design | Plug |
| Head cable outlet | angled |
| Head thread type | M12 |
| Head locking type | Push-pull external locking |
| Coding | D |

Cable/line

| | |
|---|-------------------------------------|
| Signal type/category | PROFINET CAT5 (IEC 11801), 100 Mbps |
| Stripping length of the individual wire | 4 mm +0,5 mm |

Environmental and real-life conditions

SACC-PO12MRD-4CT-CL SH PN - Data connector



1177419

<https://www.phoenixcontact.com/us/products/1177419>

Ambient conditions

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

Standards and regulations

Testing

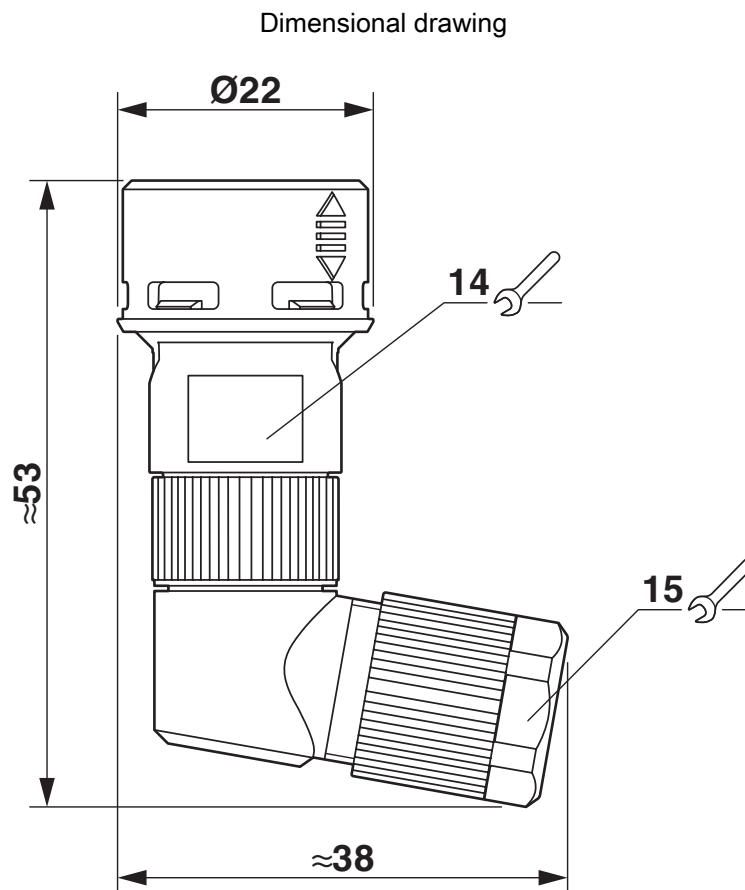
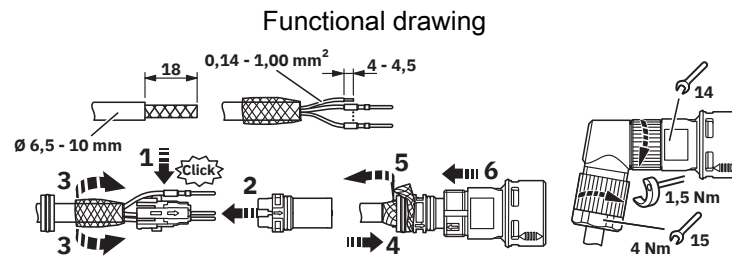
| | |
|--------------------------|--|
| Standards/regulations | PA 6.6: Fire protection in rail vehicles - requirement sets R22, R23, R24, and R26 acc. to DIN EN 45545-2 (Risk level HL1 - HL3) |
| Standard designation | M12 connector |
| Standards/specifications | IEC 61076-2-101 |
| Note | In line with |
| Standard designation | Shock, vibration |
| Standards/specifications | EN 50155:2001 |

SACC-PO12MRD-4CT-CL SH PN - Data connector

1177419

<https://www.phoenixcontact.com/us/products/1177419>

Drawings

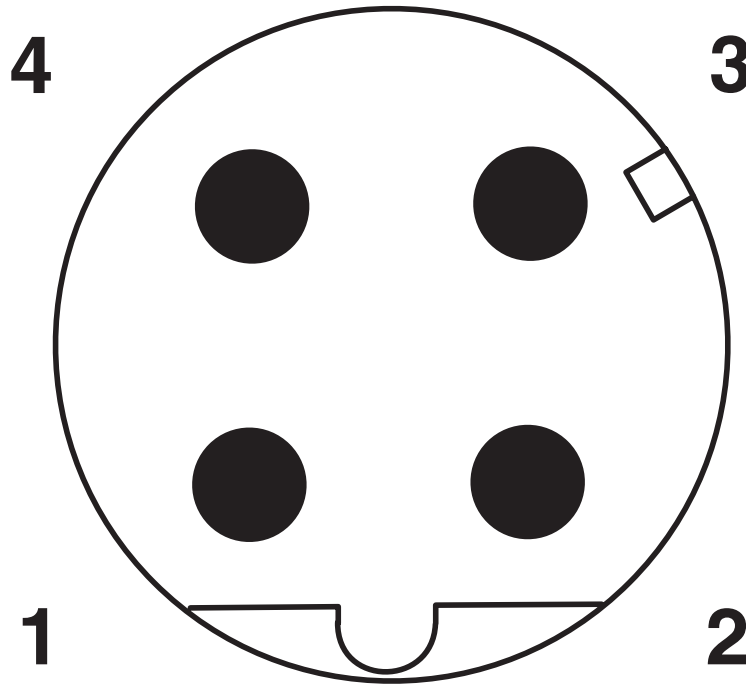


M12 push-pull plug, angled, shielded

1177419

<https://www.phoenixcontact.com/us/products/1177419>

Schematic diagram



M12 PUSH-PULL male pin assignment, 4-pos., pin-side view

SACC-PO12MRD-4CT-CL SH PN - Data connector



1177419

<https://www.phoenixcontact.com/us/products/1177419>

Classifications

ECLASS

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

ETIM

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

UNSPSC

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



1177419
<https://www.phoenixcontact.com/us/products/1177419>

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% |

Phoenix Contact 2024 © - 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