# Connector - SACC-M12FS-5PL M - 1424652

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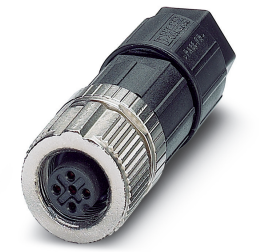

Connector, Universal, 5-position, unshielded, Socket straight M12, Coding: A, Push-in connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

## Your advantages

- Easy and tool-free connection by means of Push-in Technology
- Conveniently connect stranded conductors, thanks to lever
- Reliable and quick connection of electric cables
- Flexible signal and data cabling

RoHS

## Key Commercial Data

| | |
|---|---|
| Packing unit | 1 pc |
| GTIN | 4 055626 374994 |
| GTIN | 4055626374994 |
| Weight per Piece (excluding packing) | 20.000 g |
| Custom tariff number | 85366990 |
| Country of origin | Germany |

## Technical data

### Dimensions

| | |
|---|---|
| Diameter housing | 19 mm |
| Length | 58 mm |
| External cable diameter | 4 mm ... 8 mm |
| Stripping length of the sheath | 24 mm |
| Stripping length of the individual wire | 7 mm |

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## Technical data

### Ambient conditions

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

### General

| | |
|---|---|
| Note | 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. |
| Rated current at 40°C | 4 A (2 A when using 0.14 mm² conductors) |
| Rated voltage | 48 V AC |
| | 60 V DC |
| Number of positions | 5 |
| Color handle area | black |
| Insulation resistance | ≥ 100 MΩ |
| Coding | A - standard |
| Standards/regulations | M12 connector IEC 61076-2-101 |
| | Shock, vibration EN 50155:2001 |
| Signal type/category | Universal |
| Status display | No |
| Overvoltage category | II |
| Degree of pollution | 3 |
| Connection method | Push-in connection |
| Conductor cross section | 0.14 mm² ... 0.75 mm² (without ferrule) |
| | 0.08 mm² ... 0.5 mm² (with ferrule) |
| | 0.14 mm² ... 0.75 mm² (solid) |
| Conductor cross section AWG | 26 ... 18 (without ferrule) |
| | 28 ... 20 (with ferrule) |
| Insertion/withdrawal cycles | ≥ 100 |
| Torque | 0.4 Nm (M12 knurl) |
| | 0.4 Nm (Connector with coupling sleeve) |
| | 1.5 Nm (Pressure nut with coupling sleeve) |
| Assembly instructions | The wires can be connected both with ferrules and without ferrules |

### Material

| | |
|---|---|
| Flammability rating according to UL 94 | V0 |
| Contact material | CuSn |
| Contact surface material | Ni/Au |

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## Technical data

### Material

| | |
|---|---|
| Contact carrier material | PA 6.6 |
| Material of grip body | PA 6.6 |
| Material, knurls | Zinc die-cast, nickel-plated |
| Sealing material | NBR |
| Additional material specifications | PBT (Pressure nut, weight: 2.36 g) |
| | PA 6 (Actuation lever) |
| 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) |
| | PA 6: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3) |
| | PBT: Fire protection in rail vehicles - requirement sets R22, R23, R24, and R26 acc. to DIN EN 45545-2 (Risk level HL1 - HL2, R26: HL3) |

### Standards and Regulations

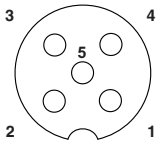
| | |
|---|---|
| Standards/specifications | M12 connector IEC 61076-2-101 |
| | Shock, vibration EN 50155:2001 |
| Flammability rating according to UL 94 | V0 |
| Standards/regulations | acc. to DIN EN 45545-2 |

### Environmental Product Compliance

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

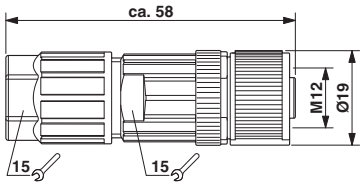
## Drawings

Schematic diagram




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

Dimensional drawing




M12-SPEEDCON socket, straight

## Classifications

### eCl@ss

| | |
|---|---|
| eCl@ss 10.0.1 | 27440102 |

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## Classifications

### eCl@ss

| | |
|---|---|
| eCl@ss 11.0 | 27440102 |
| eCl@ss 5.1 | 27143423 |
| eCl@ss 6.0 | 27279200 |
| eCl@ss 7.0 | 27440104 |
| eCl@ss 8.0 | 27440104 |
| eCl@ss 9.0 | 27440102 |

### ETIM

| | |
|---|---|
| ETIM 5.0 | EC002635 |
| ETIM 6.0 | EC002635 |
| ETIM 7.0 | EC002635 |

## Approvals

### Approvals

Approvals

EAC / UL Listed / cUL Listed / EAC / cULus Listed

Ex Approvals

### Approval details

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

| | | | |
|---|---|---|---|
| UL Listed | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | E221474 |

| | |
|---|---|
| Nominal voltage UN | 250 V |
| Nominal current IN | 4 A |
| mm²/AWG/kcmil | 26-18 |

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## Approvals

| | | | |
|---|---|---|---|
| cUL Listed | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | E221474 |

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|---|---|
| Nominal voltage UN | 250 V |
| Nominal current IN | 4 A |
| mm²/AWG/kcmil | 26-18 |

| | | |
|---|---|---|
| EAC | | RU C-DE.BL08.B.00511 |

| | |
|---|---|
| cULus Listed | |

## Accessories

### Accessories

### Cable by the meter

Cable reel - SAC-5P-100,0-PUR/0,34 - 1501676

By the meter, Cable reel, PUR halogen-free, black-gray RAL 7021, 5-wire, color single wire: brown, white, blue, black, green-yellow, cable length: 100 m

### Cable end sleeve

Ferrule - AI 0,25- 6 YE - 3203024

Ferrule, sleeve length: 6 mm, length: 10.5 mm, color: yellow

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## Accessories

Ferrule - A 0,25- 7 - 3202478

Ferrule, length: 7 mm, color: silver

Ferrule - A 0,34- 7 - 3009202

Ferrule, length: 7 mm, color: silver

Ferrule - A 0,5 - 6 - 3200218

Ferrule, length: 6 mm, color: silver

Ferrule - AI 0,5 - 6 WH - 3200687

Ferrule, sleeve length: 6 mm, length: 12 mm, color: white

## Crimping tool

Crimping pliers - CRIMPFOX 6H - 1212046

Crimping pliers, for ferrules without insulating collar according to DIN 46228 Part 1 and ferrules with insulating collar according to DIN 46228 Part 4, 0.14 mm² ... 6 mm², unlockable pressure lock, lateral entry

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## Accessories

### Plug for cable screw gland

Screw plug - PROT-M12 MS-PA-CHAIN - 1430899

M12 sealing cap with fixing band, for sensor cables, for free M12 sockets

### Screwdriver tools

Tool - SACC BIT M12-D20 - 1208445

Nut for assembling M12 connectors for assembly with a knurl diameter of 20 mm, for 4 mm hexagonal drive

Adapter insert - TSD-M SAC-BIT ADAPTER - 1212600



Adapter bit for TSD-M...torque tools, E6.3-1/4" drive with 4 mm hexagon to accommodate SAC bits

### Stripping tool

Stripping tool - WIREFOX 2,5 - 1212368

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

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## Accessories

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

Torque tool

Torque screwdriver - TSD 04 SAC - 1208429

Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

Torque screwdriver - TSD-M 1,2NM - 1212224

Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm

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