

## Power connectors - SACC-M12MRT-4CON-PG11-M - 1408988

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Power connectors, 4-position, Plug angled M12, Coding: T, Screw connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg11, external cable diameter 8 mm ... 10 mm, For direct current up to 12 A/63 V, Contact 4 leading

### Your advantages

- ✓ Safe use in the field, thanks to a high degree of protection
- ✓ Flexible: connectors for on-site assembly
- ✓ Screw connection: proven connection technology for a large selection of different conductors
- ✓ High-performance: DC connectors for up to 12 A and 63 V DC
- ✓ Protection against incorrect connection using special T-coding

RoHS

### Key Commercial Data

|              |                                                                                                         |
|--------------|---------------------------------------------------------------------------------------------------------|
| Packing unit | 1 pc                                                                                                    |
| GTIN         | <br>4 046356 862387 |
| GTIN         | 4046356862387                                                                                           |

### Technical data

#### Dimensions

|                                         |                |
|-----------------------------------------|----------------|
| Wrench size, union nut                  | 19 mm          |
| Diameter housing                        | 20.2 mm        |
| Length                                  | 44 mm          |
| External cable diameter                 | 8 mm ... 10 mm |
| Stripping length of the sheath          | 20 mm          |
| Stripping length of the individual wire | 5 mm           |

#### Ambient conditions

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

#### General

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## Technical data

### General

|                             |                                                                                                                                                                                                                                               |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Note                        | Strip 22 mm off the cable sheath, strip 7 mm off the conductor insulation, crimp the ferrule, then shorten this to 5 mm. Length of conductor with shortened ferrule: 20 mm. Connect conductors and tighten the mounting screws with 0.2 Nm.   |
|                             | 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       | 12 A (when using 1.5 mm² conductors)                                                                                                                                                                                                          |
|                             | 12 A (at 40 °C)                                                                                                                                                                                                                               |
| Rated voltage               | 63 V DC                                                                                                                                                                                                                                       |
| Number of positions         | 4                                                                                                                                                                                                                                             |
| Color handle area           | black                                                                                                                                                                                                                                         |
| Insulation resistance       | > 10 GΩ                                                                                                                                                                                                                                       |
| Coding                      | T power                                                                                                                                                                                                                                       |
| Standards/regulations       | M12 connector IEC 61076-2-111                                                                                                                                                                                                                 |
| Status display              | No                                                                                                                                                                                                                                            |
| Overvoltage category        | III                                                                                                                                                                                                                                           |
| Degree of pollution         | 3                                                                                                                                                                                                                                             |
| Connection method           | Screw connection                                                                                                                                                                                                                              |
| Conductor cross section     | 0.75 mm² ... 1.5 mm² (without ferrule)                                                                                                                                                                                                        |
|                             | 0.75 mm² ... 1.5 mm² (with ferrule)                                                                                                                                                                                                           |
|                             | 0.75 mm² ... 2.5 mm² (solid)                                                                                                                                                                                                                  |
| Conductor cross section AWG | 18 ... 14 (without ferrule)                                                                                                                                                                                                                   |
|                             | 18 ... 16 (with ferrule)                                                                                                                                                                                                                      |
| Insertion/withdrawal cycles | > 100                                                                                                                                                                                                                                         |
| Torque                      | 0.4 Nm (M12 knurl)                                                                                                                                                                                                                            |
|                             | 1.5 Nm ... 2 Nm (Pressure screw with sleeve housing)                                                                                                                                                                                          |
|                             | 0.4 Nm (Screw plug insert with sleeve housing as far it will go)                                                                                                                                                                              |
|                             | 0.2 Nm (Screw terminal blocks)                                                                                                                                                                                                                |
| Assembly instructions       | The wires can be connected both with ferrules and without ferrules                                                                                                                                                                            |
|                             | The connector pin assignment can be rotated 90° to the cable outlet                                                                                                                                                                           |

### Material

|                                        |                              |
|----------------------------------------|------------------------------|
| Flammability rating according to UL 94 | V0                           |
| Contact material                       | CuZn                         |
| Contact surface material               | Au                           |
| Contact carrier material               | PA                           |
| Material of grip body                  | PA                           |
| Material, knurls                       | Zinc die-cast, nickel-plated |
| Sealing material                       | NBR (Cable clamping)         |

### Standards and Regulations

|                          |                               |
|--------------------------|-------------------------------|
| Standards/specifications | M12 connector IEC 61076-2-111 |
|--------------------------|-------------------------------|

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### Technical data

#### Standards and Regulations

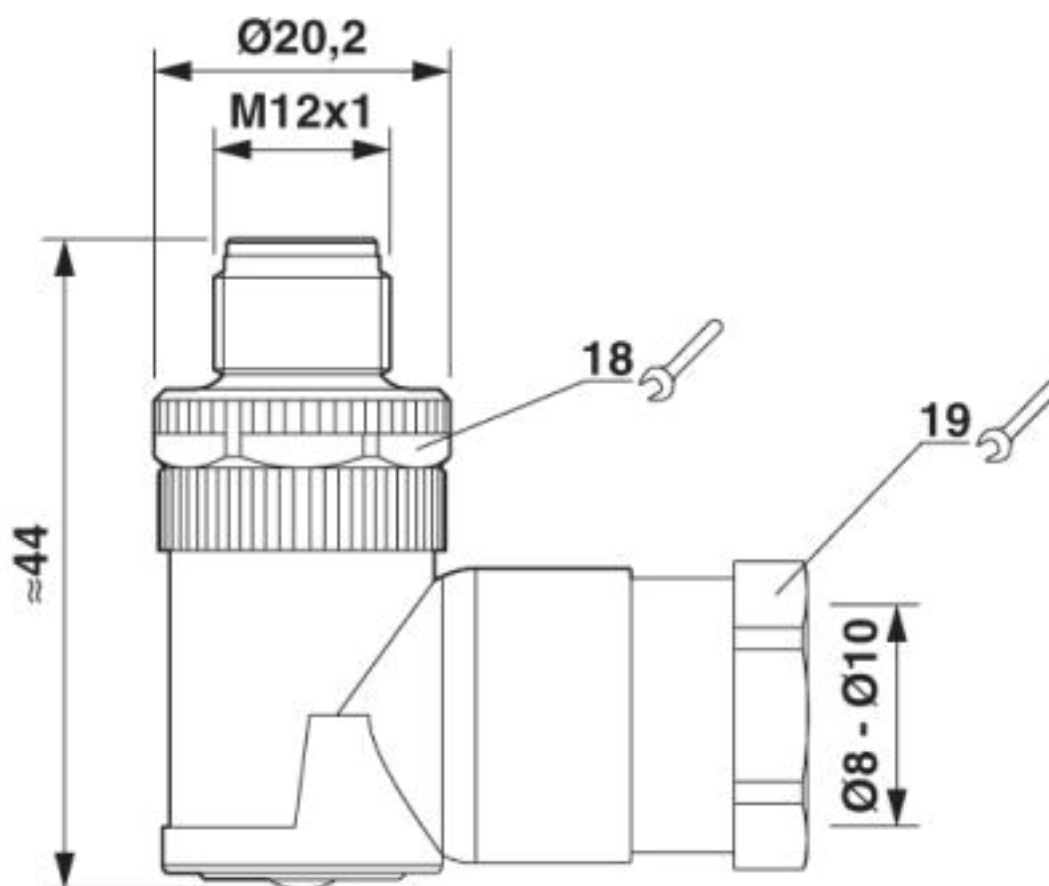
|                                        |    |
|----------------------------------------|----|
| Flammability rating according to UL 94 | V0 |
|----------------------------------------|----|

#### Environmental Product Compliance

|            |                                                                                                     |
|------------|-----------------------------------------------------------------------------------------------------|
| REACH SVHC | Lead 7439-92-1                                                                                      |
| China RoHS | Environmentally Friendly Use Period = 50 years                                                      |
|            | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

### Drawings

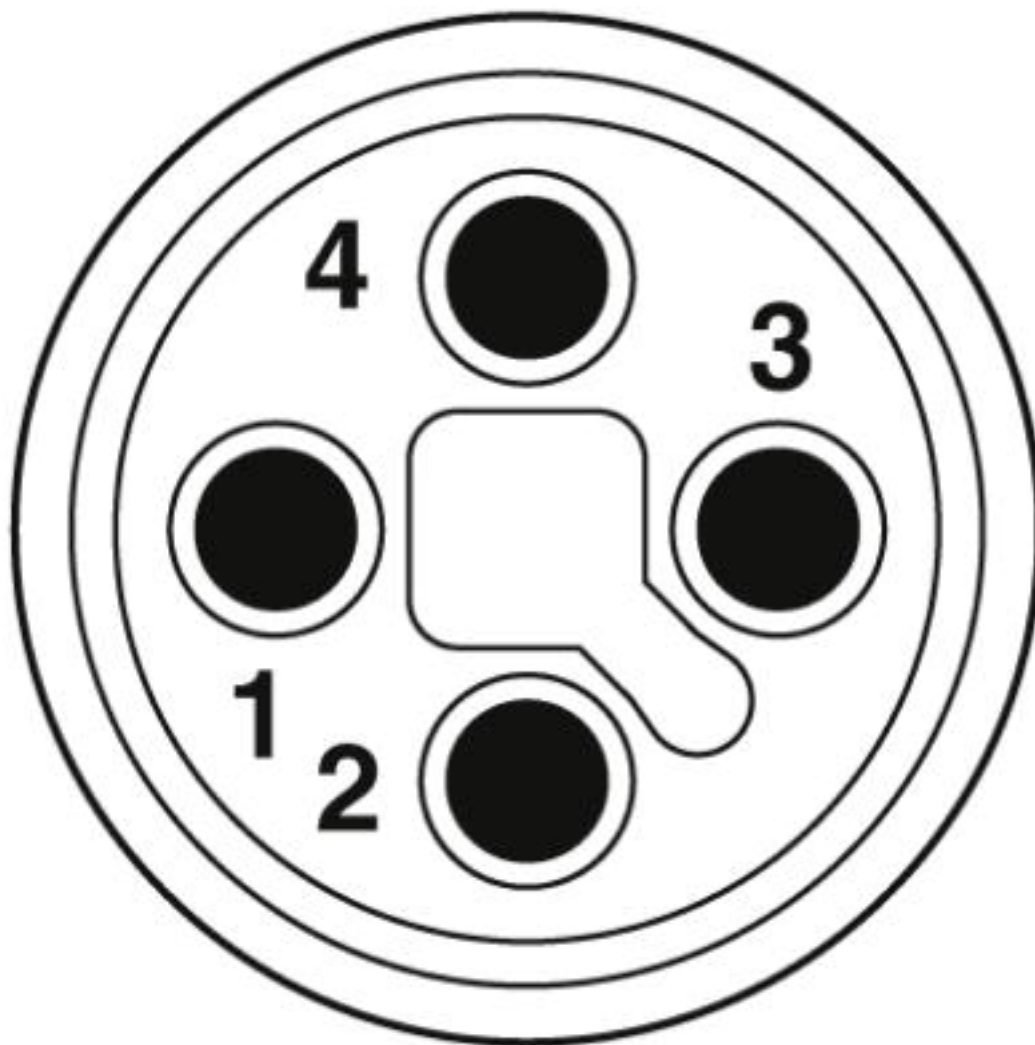
Dimensional drawing



M12 x 1 male plug, angled

## Power connectors - SACC-M12MRT-4CON-PG11-M - 1408988

Schematic diagram



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

### Classifications

eCl@ss

|               |          |
|---------------|----------|
| eCl@ss 10.0.1 | 27440102 |
| eCl@ss 4.0    | 27140800 |
| eCl@ss 4.1    | 27140800 |
| eCl@ss 5.0    | 27143400 |
| eCl@ss 5.1    | 27143400 |
| eCl@ss 6.0    | 27279200 |
| eCl@ss 7.0    | 27440104 |
| eCl@ss 8.0    | 27440104 |

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### Classifications

#### eCl@ss

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

#### ETIM

|          |          |
|----------|----------|
| ETIM 4.0 | EC002062 |
| ETIM 5.0 | EC002062 |
| ETIM 6.0 | EC002062 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 31251501 |
| UNSPSC 7.0901 | 31251501 |
| UNSPSC 11     | 31251501 |
| UNSPSC 12.01  | 31251501 |
| UNSPSC 13.2   | 39121413 |
| UNSPSC 18.0   | 39121413 |
| UNSPSC 19.0   | 39121413 |
| UNSPSC 20.0   | 39121413 |
| UNSPSC 21.0   | 39121413 |

### Approvals

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UL Recognized / cUL Recognized / cULus Recognized

#### Ex Approvals

#### Approval details

|                    |                                                                                     |                                                                                                                                                       |               |
|--------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|
| UL Recognized      |  | <a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a> | FILE E 221474 |
| Nominal voltage UN | 60 V                                                                                |                                                                                                                                                       |               |
| Nominal current IN | 12 A                                                                                |                                                                                                                                                       |               |
| mm²/AWG/kcmil      | 16                                                                                  |                                                                                                                                                       |               |

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### Approvals

|                    |                                                                                   |                                                                                                                                                       |               |
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| Nominal current IN | 12 A                                                                              |                                                                                                                                                       |               |
| mm²/AWG/kcmil      | 16                                                                                |                                                                                                                                                       |               |

|                  |                                                                                   |
|------------------|-----------------------------------------------------------------------------------|
| cULus Recognized |  |
|------------------|-----------------------------------------------------------------------------------|

### Accessories

#### Accessories

##### Cable end sleeve

Ferrule - A 1,5 - 7 - 3200263



Ferrule, length: 7 mm, color: silver

##### 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

##### Protective cap

Sealing cap - PROT-M12 FS-PA-CHAIN - 1430873

M12 sealing cap made of plastic with fixing band, for sensor cables, for free M12 plugs



##### Screwdriver tools

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### Accessories

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

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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

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Screwdriver - SZF 1-0,6X3,5 - 1204517



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2-component grip, with non-slip grip

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### Stripping tool

Stripping tool - WIREFOX 6SC - 1212158



Stripping tool, for cables and conductors (especially for cables protected against short circuits and ground leakages) 1.5 - 6 mm², self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm² stranded/1.5 mm² solid, replaceable stripping blade

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### 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

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### Accessories

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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