

## Bus system connector - SACC-M12FS-6Q SH VARAN - 1429143

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Bus system connector, VARAN, 6-position, shielded, Socket straight M12, A-coded, Insulation displacement connection, Knurl material: Nickel-plated brass, External cable diameter 4 mm ... 8 mm

### Product Features

- ✓ Safe use in the field, thanks to a high degree of protection
- ✓ Flexible: connectors for on-site assembly
- ✓ Insulation displacement connection: innovative and time-saving assembly without stripping the single wire
- ✓ Reliable signal transmission - 360° shielding in environments with electromagnetic interference



### Key commercial data

|                      |          |
|----------------------|----------|
| Packing unit         | 1 PCE    |
| Custom tariff number | 85366990 |
| Country of origin    | Germany  |

### Technical data

#### Dimensions

|                                |               |
|--------------------------------|---------------|
| External diameter              | 4 mm ... 8 mm |
| Stripping length of the sheath | 35 mm         |

#### Ambient conditions

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

#### General

|                       |      |
|-----------------------|------|
| Rated current at 40°C | 2 A  |
| Rated voltage         | 30 V |

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## Technical data

### General

|                                                                       |                                               |
|-----------------------------------------------------------------------|-----------------------------------------------|
| Number of positions                                                   | 6                                             |
| Contact resistance                                                    | $\leq 5 \text{ m}\Omega$                      |
| Insulation resistance                                                 | $\geq 100 \text{ M}\Omega$                    |
| Coding                                                                | A - standard                                  |
| Standards/regulations                                                 | M12 connector IEC 61076-2-101                 |
| Signal type/category                                                  | VARAN                                         |
| Status display                                                        | No                                            |
| Surge voltage category                                                | II                                            |
| Pollution degree                                                      | 3                                             |
| Connection method                                                     | Insulation displacement connection            |
| Conductor cross section                                               | 0.14 mm <sup>2</sup> ... 0.34 mm <sup>2</sup> |
| AWG conductor cross section                                           | 26 ... 22                                     |
| Frequency of connections between conductors of the same cross section | $\leq 10$                                     |
| Insertion/withdrawal cycles                                           | $\geq 100$                                    |
| Torque                                                                | 0.4 Nm (M12 knurl)                            |
|                                                                       | 0.8 Nm (Connector with coupling sleeve)       |
|                                                                       | 3 Nm (Pressure nut with coupling sleeve)      |

### Material

|                                         |                              |
|-----------------------------------------|------------------------------|
| Inflammability class according to UL 94 | V0                           |
| Contact material                        | CuSn                         |
| Contact surface material                | Ni/Au                        |
| Contact carrier material                | PA 66                        |
| Material of grip body                   | Zinc die-cast, nickel-plated |
| Material, knurls                        | Nickel-plated brass          |
| Sealing material                        | Neoprene                     |

## Classifications

### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27250313 |
| eCl@ss 4.1 | 27250313 |
| eCl@ss 5.0 | 27143423 |
| eCl@ss 5.1 | 27143423 |
| eCl@ss 6.0 | 27143423 |
| eCl@ss 7.0 | 27449001 |
| eCl@ss 8.0 | 27449001 |

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### Classifications

#### ETIM

|          |          |
|----------|----------|
| ETIM 3.0 | EC002062 |
| ETIM 4.0 | EC002062 |
| ETIM 5.0 | EC002062 |

#### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 31251501 |
| UNSPSC 7.0901 | 31251501 |
| UNSPSC 11     | 31251501 |
| UNSPSC 12.01  | 31251501 |
| UNSPSC 13.2   | 31251501 |

### Approvals

#### Approvals

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Approvals

GOST

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Ex Approvals

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Approvals submitted

#### Approval details

|                                                                                          |
|------------------------------------------------------------------------------------------|
| GOST  |
|------------------------------------------------------------------------------------------|

### Accessories

Accessories

Protective cap

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### Accessories

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

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



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### Screwdriver tools

Tool - SACC BIT M12-D20 - 1208445



Nut for assembling SACC M12 connectors for free assembly, excluding M12 connectors with QUICKON fast connection technology, for 4 mm hexagonal drive

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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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### Stripping tool

Stripping tool - WIREFOX-D 40 - 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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### Torque tool

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## Accessories

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

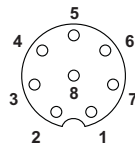
Torque screwdriver - TSD 08 SAC - 1212597



Torque screw driver with preset torque of 0.8 Nm, with 4 mm hexagon for accommodating SAC bits, two-component handle with non-slip grip

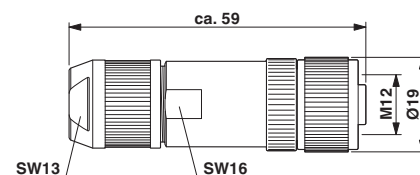
## Drawings

Schematic diagram



M12 socket pin assignment, 6-pos., socket side view

Dimensioned drawing



M12 x 1 socket, straight, shielded

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