

# Data connector - SACC-M12FS-6Q SH VARAN



1429143

<https://www.phoenixcontact.com/in/products/1429143>

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, VARAN, 6-position, shielded, Socket straight M12, Coding: A, Insulation displacement connection, knurl material: Nickel-plated brass, external cable diameter 4 mm ... 8 mm

---

## Your advantages

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

# Data connector - SACC-M12FS-6Q SH VARAN



1429143

<https://www.phoenixcontact.com/in/products/1429143>

## Commercial Data

Item number	1429143
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	BF2
Product Key	BF2CDM
Catalog Page	Page 343 (C-2-2019)
GTIN	4046356323109
Weight per Piece (including packing)	48.7 g
Weight per Piece (excluding packing)	48.7 g
Customs tariff number	85366990
Country of origin	DE

## Technical Data

### Notes

Assembly instruction:	<b>NOTE:</b> 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.
-----------------------	--

### Product properties

Product type	Circular connector (cable-side)
Number of positions	6
No. of cable outlets	1
Shielded	yes
Coding	A - standard
Cable outlet	straight

### Insulation characteristics

Overvoltage category	II
Degree of pollution	3

### Ambient conditions

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

### Dimensions

#### External dimensions

Outside diameter	4 mm ... 8 mm
------------------	---------------

### Connector

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

#### Header 1

Head design	Socket
Head cable outlet	straight
Head thread type	M12
Coding	A-coded

### Electrical properties

Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U <sub>N</sub>	30 V AC
	30 V DC
Nominal current I <sub>N</sub>	2 A

### Material specifications

# Data connector - SACC-M12FS-6Q SH VARAN



1429143

<https://www.phoenixcontact.com/in/products/1429143>

Flammability rating according to UL 94	V0
Sealing material	Neoprene
Material of grip body	Zinc die-cast, nickel-plated
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	PA6
Cable gland material	Nickel-plated brass

## Connection data

### Conductor connection

Connection method	Insulation displacement connection
Connection cross section	0.14 mm <sup>2</sup> ... 0.34 mm <sup>2</sup>
Connection cross section AWG	26 ... 22
Tightening torque	0.4 Nm (M12 knurl)
	0.8 Nm (Connector with coupling sleeve)
	3 Nm (Pressure nut with coupling sleeve)

## Standards and regulations

Standards/specifications	according to IEC 61076-2-101
--------------------------	------------------------------

## Cable / line

### Cable structure

Signal type/category	VARAN
----------------------	-------

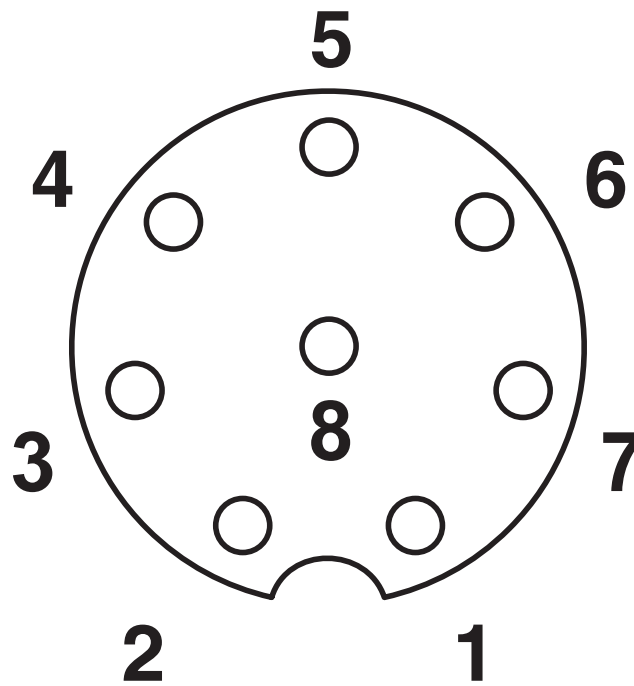
# Data connector - SACC-M12FS-6Q SH VARAN

1429143

<https://www.phoenixcontact.com/in/products/1429143>

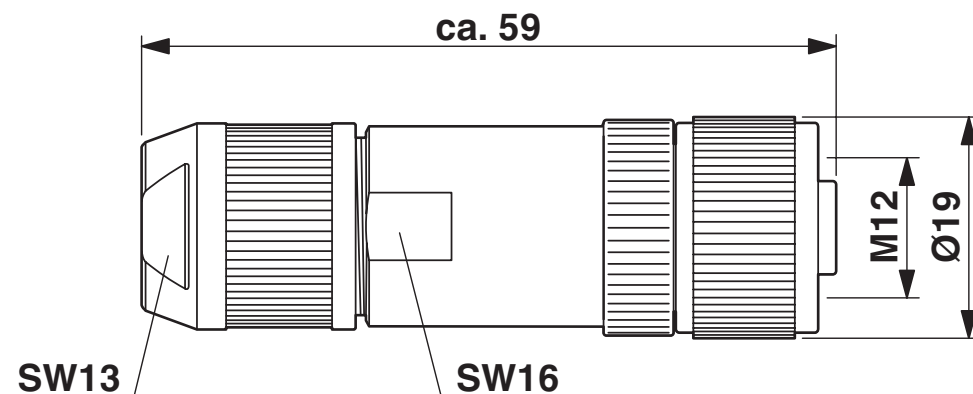
## Drawings

Schematic diagram



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

Dimensional drawing



M12 x 1 socket, straight, shielded

# Data connector - SACC-M12FS-6Q SH VARAN



1429143

<https://www.phoenixcontact.com/in/products/1429143>

## Approvals



**EAC**

Approval ID: EAC-Zulassung



**EAC**

Approval ID: RU C-DE.BL08.B.00511

# Data connector - SACC-M12FS-6Q SH VARAN



1429143

<https://www.phoenixcontact.com/in/products/1429143>

## Classifications

### ECLASS

ECLASS-10.0.1	27440102
ECLASS-9.0	27440102
ECLASS-11.0	27440102

### ETIM

ETIM 8.0	EC002635
----------	----------

### UNSPSC

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

# Data connector - SACC-M12FS-6Q SH VARAN



1429143

<https://www.phoenixcontact.com/in/products/1429143>

## Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

# Data connector - SACC-M12FS-6Q SH VARAN



1429143

<https://www.phoenixcontact.com/in/products/1429143>

## Accessories

### Torque screwdriver

Torque screwdriver - TSD 04 SAC - 1208429

<https://www.phoenixcontact.com/in/products/1208429>



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

---

### Tool

Tool - SACC BIT M12-D20 - 1208445

<https://www.phoenixcontact.com/in/products/1208445>



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

# Data connector - SACC-M12FS-6Q SH VARAN



1429143

<https://www.phoenixcontact.com/in/products/1429143>

## Torque screwdriver

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

<https://www.phoenixcontact.com/in/products/1212224>



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

---

## Adapter insert

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

<https://www.phoenixcontact.com/in/products/1212600>



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

# Data connector - SACC-M12FS-6Q SH VARAN



1429143

<https://www.phoenixcontact.com/in/products/1429143>

## Torque screwdriver

Torque screwdriver - TSD 08 SAC - 1212597

<https://www.phoenixcontact.com/in/products/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

---

## Screw plug

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

<https://www.phoenixcontact.com/in/products/1430899>



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

# Data connector - SACC-M12FS-6Q SH VARAN



1429143

<https://www.phoenixcontact.com/in/products/1429143>

## Stripping tool

Stripping tool - WIREFOX-D 40 - 1212161

<https://www.phoenixcontact.com/in/products/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

---

## Diagonal cutter

Diagonal cutter - MICROFOX-SB - 1212489

<https://www.phoenixcontact.com/in/products/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

# Data connector - SACC-M12FS-6Q SH VARAN



1429143

<https://www.phoenixcontact.com/in/products/1429143>

## Shielding foil

Shielding foil - ALU-SB - 1404531

<https://www.phoenixcontact.com/in/products/1404531>

Shielding foil, for fixing the braided shield of shielded cables. Length: 4 cm, width: 1.2 cm



---

Phoenix Contact 2022 © - all rights reserved

<https://www.phoenixcontact.com>

PHOENIX CONTACT (I) Pvt. Ltd.

A-58/2, Okhla Industrial Area, Phase - II, New Delhi-110 020

+91.1275.71420

[info@phoenixcontact.co.in](mailto:info@phoenixcontact.co.in)