PHŒNIX CONTACT

Connector - SACC-M12FS-5CON-PG11-DUO - 1694596

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Connector, 5-position, Socket straight M12, A-coded, Screw connection, Knurl material: Plastic, Cable gland Pg11-DUO, External cable diameter 2.1 mm ... 3 mm / 4 mm ... 5.2 mm

Product Features

- 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
- Save space: connect two sensors to one connector with a multiple grommet

Key Commercial Data

Packing unit	1 pc
Weight per Piece (excluding packing)	22.1 g
Custom tariff number	85366990
Country of origin	Germany

Technical data

Dimensions

External cable diameter	2x 2.1 mm ... 3 mm (when using the seal for small outer cable diameters)
	2x 4 mm ... 5.2 mm (when using the seal for large outer cable diameters)

Ambient conditions

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

General

Rated current at 40°C	4 A
Rated voltage	60 V
Number of positions	5
Insulation resistance	$\geq 100\ M\Omega$

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Technical data

General

Coding	A - standard
Standards/regulations	M12 connector IEC 61076-2-101
Status display	No
Overvoltage category	II
Degree of pollution	3
Connection method	Screw connection
Conductor cross section	0.25 mm² ... 0.75 mm²
Conductor cross section AWG	24 ... 18
Insertion/withdrawal cycles	≥ 100
Torque	0.4 Nm (M12 knurl)
	0.3 Nm ... 0.4 Nm (Pressure screw for external cable diameter of 2.1 mm ... 3 mm)
	0.8 Nm ... 1 Nm (Pressure screw for outer cable diameter 4 mm ... 8 mm)
	0.2 Nm (Screw terminal blocks)
Tightening torque	Screw plug insert with sleeve housing as far it will go
Assembly instructions	The wires can be connected both with ferrules and without ferrules
	This connector includes one seal for small and one seal for large outer cable diameters.

Material

Flammability rating according to UL 94	V0
Contact material	CuZn
Contact surface material	CuSnZn
Contact carrier material	PA
Material of grip body	PA
Material, knurls	Plastic
Sealing material	NBR

Standards and Regulations

Standard designation	M12 connector
Standards/regulations	IEC 61076-2-101
Connection in acc. with standard	CUL
Flammability rating according to UL 94	V0

Classifications

eCl@ss

eCl@ss 4.0	27140815
eCl@ss 4.1	27140815

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Classifications

eCl@ss

eCl@ss 5.0	27260701
eCl@ss 5.1	27260701
eCl@ss 6.0	27279221
eCl@ss 7.0	27440104
eCl@ss 8.0	27440104
eCl@ss 9.0	27440102

ETIM

ETIM 2.0	EC001121
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

Approvals

UL Recognized / cUL Recognized / EAC / EAC

Ex Approvals

Approvals submitted

Approval details

UL Recognized

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Approvals

cUL Recognized c**RU**

EAC

EAC

Accessories

Accessories

Cable by the meter

Cable ring - SAC-3P-100,0-PUR/0,25 - 1501689

Cable ring, PUR halogen-free black, 3-pos., conductor colors: brown/blue/black, cable length: 100 m

Cable ring - SAC-3P-100,0-PUR/0,34 - 1501650

Cable ring, PUR halogen-free black, 3-pos., conductor colors: brown/blue/black, cable length: 100 m

Cable ring - SAC-4P-100,0-PUR/0,25 - 1501692

Cable ring, PUR halogen-free black, 4-pos., conductor colors: brown / white / blue / black, cable length: 100 m

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Accessories

Cable ring - SAC-4P-100,0-PUR/0,34 - 1501663

Cable ring, PUR halogen-free black, 4-pos., conductor colors: brown / white / blue / black, cable length: 100 m

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

Cable ring, PUR halogen-free black, 5-pos., conductor colors: Brown/white/blue/black/green-yellow, cable length: 100 m

Protective cap

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

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

Screwdriver tools

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

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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Accessories

Torque tool

Torque screwdriver - TSD 04 SAC - 1208429

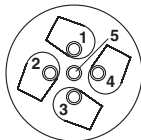Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

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

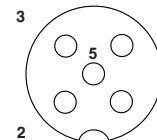Torque screw driver, accuracy as per EN ISO 6789 standard, adjustable from 0.3 - 1.2 Nm
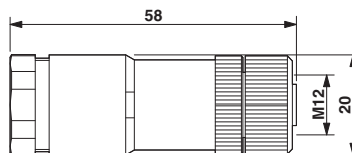
Drawings

Schematic diagram

Cable connection side M12 (screw connection)

Schematic diagram

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

Dimensional drawing

58

M12

20

M12 x 1 socket, straight

Mouser Electronics

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