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Connector, Universal, 4-position, Plug straight M12 SPEEDCON, A-coded, Screw connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg7, external cable diameter 4 mm ... 6 mm

Your advantages

- Safe use in the field, thanks to a high degree of protection
- Save time, thanks to installation with SPEEDCON fast locking system



Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 097680
GTIN	4046356097680
Weight per Piece (excluding packing)	23.400 g
Custom tariff number	85366990
Country of origin	Germany

Technical data

Dimensions

Diameter housing	20 mm
Length	62 mm
External cable diameter	4 mm 6 mm
Stripping length of the sheath	20 mm
Stripping length of the individual wire	5 mm



Technical data

Ambient conditions

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

General

Rated current at 40°C 4 A Rated voltage 250 V AC 250 V DC 250 V DC Number of positions 4 Insulation resistance ≥ 100 MΩ Coding A - standard Standards/regulations M12 connector IEC 61076-2-101 Signal type/category Universal Status display No Overvoltage category II Degree of pollution 3 Connection method Screw connection Conductor cross section 0.25 mm² 0.75 mm² (without ferrule) 0.25 mm² 0.75 mm² (with ferrule) 0.25 mm² 0.75 mm² (solid) Conductor cross section AWG 24 18 (without ferrule) Lisertion/withdrawal cycles ≥ 100 Torque 0.4 Nm (M12 knurl) User w terminal blocks) 0.8 Nm 1 Nm (Pressure screw with sleeve housing) Tightening torque Screw plug insert with sleeve housing as far it will go	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.
250 V DC	Rated current at 40°C	4 A
Number of positions 4 Insulation resistance ≥ 100 MΩ Coding A - standard Standards/regulations M12 connector IEC 61076-2-101 Signal type/category Universal Status display No Overvoltage category II Degree of pollution 3 Connection method Screw connection Conductor cross section 0.25 mm² 0.75 mm² (with terrule) Conductor cross section AWG 24 18 (without ferrule) Conductor cross section AWG 24 18 (without ferrule) Insertion/withdrawal cycles ≥ 100 Torque 0.4 Nm (M12 knurl) Insertion/with sleeve housing)	Rated voltage	250 V AC
Insulation resistance Coding A - standard Standards/regulations M12 connector IEC 61076-2-101 Signal type/category Universal Status display No Overvoltage category II Degree of pollution Screw connection Connection method Screw connection Conductor cross section 0.25 mm² 0.75 mm² (without ferrule) 0.14 mm² 0.75 mm² (with ferrule) Conductor cross section AWG 24 18 (without ferrule) Lonductor cross section AWG 25 20 (with ferrule) Insertion/withdrawal cycles Degree of pollution Conductor cross section AWG 26 20 (with ferrule) 26 20 (with ferrule) Degree of pollution Conductor cross section AWG 24 18 (without ferrule) 26 20 (with ferrule) Degree of pollution Conductor cross section AWG 24 18 (without ferrule) 26 20 (with ferrule) Degree of pollution Conductor cross section AWG 24 18 (without ferrule) 26 20 (with ferrule) Degree of pollution Conductor cross section AWG Cond		250 V DC
Coding A - standard Standards/regulations M12 connector IEC 61076-2-101 Signal type/category Universal Status display No Overvoltage category II Degree of pollution 3 Connection method Screw connection Conductor cross section 0.25 mm² 0.75 mm² (without ferrule) 0.14 mm² 0.75 mm² (with ferrule) 0.25 mm² 0.75 mm² (solid) Conductor cross section AWG 24 18 (without ferrule) Insertion/withdrawal cycles ≥ 100 Torque 0.4 Nm (M12 knurl) 0.2 Nm (Screw terminal blocks) 0.8 Nm 1 Nm (Pressure screw with sleeve housing)	Number of positions	4
Standards/regulations M12 connector IEC 61076-2-101 Signal type/category Universal Status display No Overvoltage category II Degree of pollution 3 Connection method Screw connection Conductor cross section 0.25 mm² 0.75 mm² (without ferrule) Conductor cross section AWG 24 18 (without ferrule) Conductor cross section AWG 24 18 (without ferrule) Insertion/withdrawal cycles ≥ 100 Torque 0.4 Nm (M12 knurl) O.2 Nm (Screw terminal blocks) 0.8 Nm 1 Nm (Pressure screw with sleeve housing)	Insulation resistance	≥ 100 MΩ
Signal type/category Universal Status display No Overvoltage category II Degree of pollution 3 Connection method Screw connection Conductor cross section 0.25 mm² 0.75 mm² (without ferrule) 0.14 mm² 0.75 mm² (with ferrule) 0.25 mm² 0.75 mm² (solid) Conductor cross section AWG 24 18 (without ferrule) 26 20 (with ferrule) Insertion/withdrawal cycles ≥ 100 Torque 0.4 Nm (M12 knurl) 0.2 Nm (Screw terminal blocks) 0.8 Nm 1 Nm (Pressure screw with sleeve housing)	Coding	A - standard
Status display No Overvoltage category II Degree of pollution 3 Connection method Screw connection Conductor cross section 0.25 mm² 0.75 mm² (without ferrule) 0.25 mm² 0.75 mm² (with ferrule) 0.25 mm² 0.75 mm² (solid) Conductor cross section AWG 24 18 (without ferrule) Linsertion/withdrawal cycles ≥ 100 Torque 0.4 Nm (M12 knurl) 0.2 Nm (Screw terminal blocks) 0.8 Nm 1 Nm (Pressure screw with sleeve housing)	Standards/regulations	M12 connector IEC 61076-2-101
Overvoltage category II Degree of pollution 3 Connection method Screw connection Conductor cross section 0.25 mm² 0.75 mm² (without ferrule) 0.14 mm² 0.75 mm² (with ferrule) 0.25 mm² 0.75 mm² (solid) Conductor cross section AWG 24 18 (without ferrule) 26 20 (with ferrule) 26 20 (with ferrule) Insertion/withdrawal cycles ≥ 100 Torque 0.4 Nm (M12 knurl) 0.2 Nm (Screw terminal blocks) 0.8 Nm 1 Nm (Pressure screw with sleeve housing)	Signal type/category	Universal
Degree of pollution 3 Connection method Screw connection Conductor cross section 0.25 mm² 0.75 mm² (without ferrule) 0.14 mm² 0.75 mm² (with ferrule) 0.25 mm² 0.75 mm² (solid) Conductor cross section AWG 24 18 (without ferrule) 26 20 (with ferrule) 26 20 (with ferrule) Insertion/withdrawal cycles ≥ 100 Torque 0.4 Nm (M12 knurl) 0.2 Nm (Screw terminal blocks) 0.8 Nm 1 Nm (Pressure screw with sleeve housing)	Status display	No
Connection method Conductor cross section Conductor cross section 0.25 mm² 0.75 mm² (without ferrule) 0.14 mm² 0.75 mm² (with ferrule) 0.25 mm² 0.75 mm² (solid) Conductor cross section AWG 24 18 (without ferrule) 26 20 (with ferrule) Insertion/withdrawal cycles ≥ 100 Torque 0.4 Nm (M12 knurl) 0.2 Nm (Screw terminal blocks) 0.8 Nm 1 Nm (Pressure screw with sleeve housing)	Overvoltage category	II I
Conductor cross section 0.25 mm² 0.75 mm² (without ferrule) 0.14 mm² 0.75 mm² (with ferrule) 0.25 mm² 0.75 mm² (solid) Conductor cross section AWG 24 18 (without ferrule) 26 20 (with ferrule) Insertion/withdrawal cycles ≥ 100 Torque 0.4 Nm (M12 knurl) 0.2 Nm (Screw terminal blocks) 0.8 Nm 1 Nm (Pressure screw with sleeve housing)	Degree of pollution	3
0.14 mm² 0.75 mm² (with ferrule) 0.25 mm² 0.75 mm² (solid) Conductor cross section AWG 24 18 (without ferrule) 26 20 (with ferrule) Insertion/withdrawal cycles ≥ 100 Torque 0.4 Nm (M12 knurl) 0.2 Nm (Screw terminal blocks) 0.8 Nm 1 Nm (Pressure screw with sleeve housing)	Connection method	Screw connection
0.25 mm² 0.75 mm² (solid) Conductor cross section AWG 24 18 (without ferrule) 26 20 (with ferrule) Insertion/withdrawal cycles ≥ 100 Torque 0.4 Nm (M12 knurl) 0.2 Nm (Screw terminal blocks) 0.8 Nm 1 Nm (Pressure screw with sleeve housing)	Conductor cross section	0.25 mm² 0.75 mm² (without ferrule)
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26 20 (with ferrule) Insertion/withdrawal cycles ≥ 100 Torque 0.4 Nm (M12 knurl)		0.25 mm² 0.75 mm² (solid)
Insertion/withdrawal cycles ≥ 100 Torque 0.4 Nm (M12 knurl) 0.2 Nm (Screw terminal blocks) 0.8 Nm 1 Nm (Pressure screw with sleeve housing)	Conductor cross section AWG	24 18 (without ferrule)
Torque 0.4 Nm (M12 knurl) 0.2 Nm (Screw terminal blocks) 0.8 Nm 1 Nm (Pressure screw with sleeve housing)		26 20 (with ferrule)
0.2 Nm (Screw terminal blocks) 0.8 Nm 1 Nm (Pressure screw with sleeve housing)	Insertion/withdrawal cycles	≥ 100
0.8 Nm 1 Nm (Pressure screw with sleeve housing)	Torque	0.4 Nm (M12 knurl)
		0.2 Nm (Screw terminal blocks)
Tightening torque Screw plug insert with sleeve housing as far it will go		0.8 Nm 1 Nm (Pressure screw with sleeve housing)
	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	Assembly instructions	The wires can be connected both with ferrules and without ferrules

Material

Flammability rating according to UL 94	НВ
Contact material	CuZn
Contact surface material	CuSnZn
Contact carrier material	PA
Material of grip body	PBT
Material, knurls	Zinc die-cast, nickel-plated



Technical data

Material

Sealing material	NBR
Standards and Degulations	

Standards and Regulations

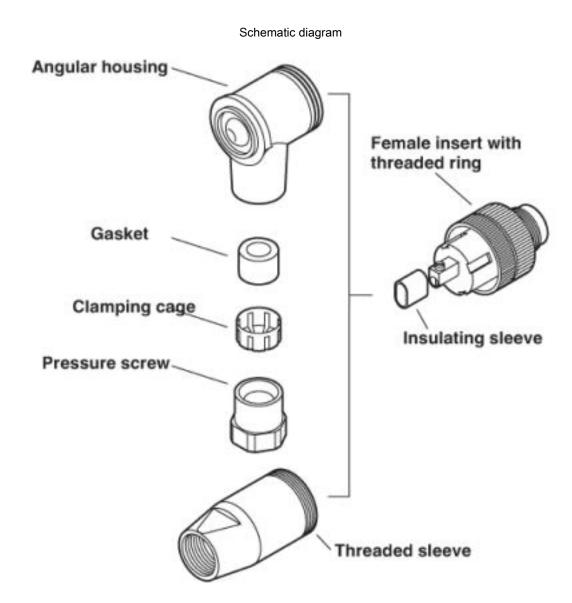
Standard designation	M12 connector
Standards/regulations	IEC 61076-2-101
Flammability rating according to UL 94	НВ

Environmental Product Compliance

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

Drawings

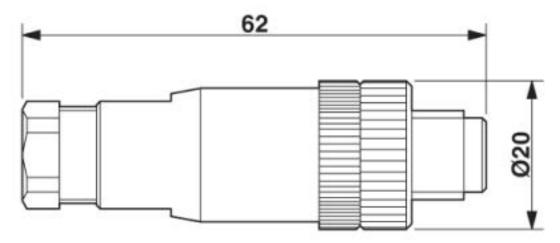




Male/Female M12



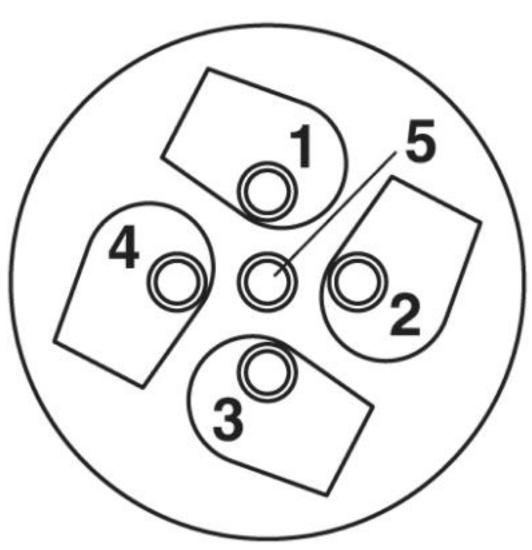
Dimensional drawing



Plug, M12 x 1, straight, shielded



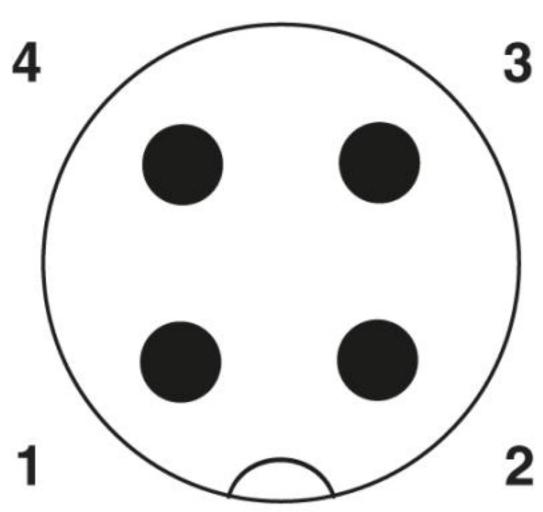
Schematic diagram



Cable connection side M12 (screw connection)







Pin assignment M12 plug, 4-pos., A-coded, view 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



Classifications

eCl@ss

eCl@ss 8.0	27440104
eCl@ss 9.0	27440102

ETIM

ETIM 3.0	EC002062
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

Approvals

Approvals

Approvals

EAC

Ex Approvals

Approval details

EAC [FI

RU C-DE.Al30.B.01102

Accessories

Accessories

Cable by the meter



Accessories

Cable reel - 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

Cable reel - 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 reel - SAC-4P-100,0-186/0,75 - 1457461



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

Cable end sleeve

Ferrule - A 0,25- 5 - 3202465



Ferrule, length: 5 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



Accessories

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

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

Seal

Connector - SACC-M12-SET/2,5-3,5 - 1436505



Sensor/actuator connector, accessories, pressure screw and Pg7 seal, for unshielded M12 connector, cable diameter 2.5 mm - 3.5 mm

Stripping tool



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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