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Connector, Universal, 5-position, Socket straight M12 SPEEDCON, Screw connection, knurl material: Nickel-plated brass, 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.
- Screw connection: proven connection technology for a large selection of different conductors



Key Commercial Data

Packing unit	1 pc
GTIN	4 046356 097604
GTIN	4046356097604
Weight per Piece (excluding packing)	25.900 g
Custom tariff number	85366990
Country of origin	Germany

Technical data

Dimensions

Diameter housing	20 mm	
Length	54 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 48 ∨ AC Rated voltage 48 ∨ AC Number of positions 5 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) Conductor cross section AWG 24 18 (without ferrule) Insertion/withdrawal cycles ≥ 100 Torque 0.4 Nm (M12 knurl) Torque 0.4 Nm (Screw 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.
Number of positions 5 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) 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) Torque 0.8 Nm 1 Nm (Pressure screw with sleeve housing) Tightening torque Screw plug insert with sleeve housing as far it will go	Rated current at 40°C	4 A
Number of positions 5 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) 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) Torque 0.4 Nm (M12 knurl) O.2 Nm (Screw 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	Rated voltage	48 V AC
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) 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) 0.2 Nm (Screw 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		60 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) 1. sertion/withdrawal cycles ≥ 100 Torque 0.4 Nm (M12 knurl) 0.2 Nm (Screw terminal blocks) 1. serve vonection Screw with sleeve housing) Tightening torque Screw plug insert with sleeve housing as far it will go	Number of positions	5
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) Learner 0.75 mm² (with ferrule) 0.25 mm² 0.75 mm² (solid) Conductor cross section AWG 24 18 (without ferrule) Learner 0.75 mm² (solid) 26 20 (with ferrule) Insertion/withdrawal cycles ≥ 100 Torque 0.4 Nm (M12 knurl) Learner 0.75 mm² (solid) 0.2 Nm (Screw terminal blocks) Learner 0.75 mm² (solid) 0.2 Nm (Screw terminal blocks) Learner 0.75 mm² (solid) 0.2 Nm (Screw terminal blocks) Learner 0.75 mm² (solid) 0.2 Nm (Screw terminal blocks) Learner 0.75 mm² (solid) 0.2 Nm (Screw terminal blocks) Learner 0.75 mm² (with ferrule) 0.2 Nm (Screw terminal blocks) Learner 0.75 mm² (with ferrule) 0.2 Nm (Screw terminal blocks) Learner 0.75 mm² (with ferrule) 0.2 Nm (Screw terminal blocks) Learner 0.75 mm² (with ferrule)	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) 0.25 mm² 0.75 mm² (with ferrule) 0.25 mm² 0.75 mm² (solid) Conductor cross section AWG 24 18 (without ferrule) 1 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) Tightening torque Screw plug insert with sleeve housing as far it will go	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) 0.14 mm² 0.75 mm² (with ferrule) 0.25 mm² 0.75 mm² (solid) Conductor cross section AWG 24 18 (without ferrule) 1 conductor cross section AWG 26 20 (with ferrule) 2 conductor cross section AWG ≥ 100 1 conductor cross section AWG > 100 2 conductor cross section AWG > 100 1 conductor cross section AWG > 100 2 conductor cross section AWG > 100 2 conductor cross section AWG > 100 3 conductor cross section AWG > 100 4 conductor cross section AWG > 100 5 cond	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) 1 section/withdrawal cycles ≥ 100 1 rorque 0.4 Nm (M12 knurl) 0.2 Nm (Screw 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	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) 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) Tightening torque Screw plug insert with sleeve housing as far it will go	Status display	No
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) Tightening torque Screw plug insert with sleeve housing as far it will go	Overvoltage category	II II
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) Tightening torque Screw plug insert with sleeve housing as far it will go	Degree of pollution	3
$0.14 \text{ mm}^2 \dots 0.75 \text{ mm}^2 \text{ (with ferrule)}$ $0.25 \text{ mm}^2 \dots 0.75 \text{ mm}^2 \text{ (solid)}$ $24 \dots 18 \text{ (without ferrule)}$ $26 \dots 20 \text{ (with ferrule)}$ $1 \text{ Insertion/withdrawal cycles}$ ≥ 100 1 Torque $0.4 \text{ Nm (M12 knurl)}$ $0.2 \text{ Nm (Screw terminal blocks)}$ $0.8 \text{ Nm } \dots 1 \text{ Nm (Pressure screw with sleeve housing)}$ $1 \text{ Tightening torque}$ $2 \text{ Screw plug insert with sleeve housing as far it will go}$	Connection method	Screw connection
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) Tightening torque Screw plug insert with sleeve housing as far it will go	Conductor cross section	0.25 mm ² 0.75 mm ² (without ferrule)
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) Tightening torque Screw plug insert with sleeve housing as far it will go		0.14 mm ² 0.75 mm ² (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) Tightening torque Screw plug insert with sleeve housing as far it will go		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) Tightening torque Screw plug insert with sleeve housing as far it will go	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) Tightening torque Screw plug insert with sleeve housing as far it will go		26 20 (with ferrule)
0.2 Nm (Screw 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	Insertion/withdrawal cycles	≥ 100
0.8 Nm 1 Nm (Pressure screw with sleeve housing) Tightening torque Screw plug insert with sleeve housing as far it will go	Torque	0.4 Nm (M12 knurl)
Tightening torque Screw plug insert with sleeve housing as far it will go		0.2 Nm (Screw 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
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	Nickel-plated brass



Technical data

Material

Sealing material	NBR

Standards and Regulations

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

Environmental Product Compliance

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

Classifications

eCl@ss

eCl@ss 4.0	27250313
eCl@ss 4.1	27250313
eCl@ss 5.0	27143423
eCl@ss 5.1	27143400
eCl@ss 6.0	27279200
eCl@ss 7.0	27440104
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	31261501
UNSPSC 7.0901	31261501
UNSPSC 11	31261501
UNSPSC 12.01	31261501
UNSPSC 13.2	39121413



Approvals		
Approvals		
Approvals		
EAC / EAC		
Ex Approvals		
Approval details		
EAC	ERIC	RU C- DE.Al30.B.01102
EAC	EAC	EAC-Zulassung
Accessories		
Accessories		
Cable by the meter		
Cable reel - SAC-5P-100	0,0-PUR/0,34 - 1501676	
	Cable ring, PUR halogen-free black, 5-pos., conductor colors: Brown/white/blue/black/green-	-yellow, cable length: 100 m
Cable end sleeve		
Ferrule - A 0,25- 5 - 3202	2465	
	Ferrule, length: 5 mm, color: silver	



Accessories

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

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

Seal



Accessories

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

Stripping tool - WIREFOX SAC - 1212623



Stripping pliers, for halogen-free sensor/actuator cables (SAC cables), with PUR and PVC insulation, from \emptyset 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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