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Connector, Universal, 5-position, Plug straight M12, A-coded, Screw connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg9, external cable diameter 6 mm ... 8 mm

#### Your advantages

- ${\ensuremath{\,^{\scriptstyle\blacksquare}}}$  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



### Key Commercial Data

Packing unit	1 pc
GTIN	4 017918 157432
GTIN	4017918157432
Weight per Piece (excluding packing)	24.200 g
Custom tariff number	85366990
Country of origin	Germany

## Technical data

#### Dimensions

Diameter housing	20 mm	
Length	60 mm	
External cable diameter	6 mm 8 mm	
Stripping length of the sheath	20 mm	
Stripping length of the individual wire	5 mm	

#### Ambient conditions

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

General



# Technical data

#### General

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.	
Rated current at 40°C	4 A	
Rated voltage	48 V AC	
	60 V DC	
Number of positions	5	
Color handle area	black	
Insulation resistance	$\geq$ 100 M $\Omega$	
Coding	A - standard	
Standards/regulations	M12 connector IEC 61076-2-101	
Signal type/category	Universal	
Status display	No	
Overvoltage category	11	
Degree of pollution	3	
Connection method	Screw connection	
Conductor cross section	0.25 mm <sup>2</sup> 0.75 mm <sup>2</sup> (without ferrule)	
	0.14 mm <sup>2</sup> 0.75 mm <sup>2</sup> (with ferrule)	
	0.25 mm <sup>2</sup> 0.75 mm <sup>2</sup> (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	
Assembly instructions The wires can be connected both with ferrules and without		

#### Material

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



## Technical data

### **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	27140815
eCl@ss 4.1	27140815
eCl@ss 5.0	27260701
eCl@ss 5.1	27260700
eCl@ss 6.0	27279200
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
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

UL Recognized / cUL Recognized / EAC / cULus Recognized

Ex Approvals



## Approvals

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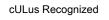
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Approval details

U	L Recognized	77	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm		FILE E 221474
Nomina	al voltage UN			125 V	
Nomina	al current IN			4 A	

cUL Recognized	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm		FILE E 221474
Nominal voltage UN		125 V	
Nominal current IN		4 A	

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### Accessories

Accessories

Cable by the meter

Cable reel - SAC-5P-100,0-186/0,75 - 1535590



Cable ring, PUR/PVC black, 5-pos., conductor colors: Brown/white/blue/black/gray, cable length: 100 m

Cable end sleeve

Ferrule - A 0,25- 5 - 3202465



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 mm<sup>2</sup> ... 6 mm<sup>2</sup>, unlockable pressure lock, lateral entry

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

Screwdriver - SZF 1-0,6X3,5 - 1204517



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.6 x 3.5 x 100 mm, 2component grip, with non-slip grip



#### 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

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