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Power connectors, 3-position, Plug straight M12, Coding: S, Screw connection, knurl material: Zinc die-cast, nickel-plated, cable gland Pg9, external cable diameter 6 mm ... 8 mm, for alternating current up to 16 A/630 V, Contact 4 leading

#### Your advantages

- 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
- High-performance: AC connectors for up to 16 A and 630 V AC
- ☑ Protection against incorrect connection using special S-coding



### **Key Commercial Data**

Packing unit	1 pc
GTIN	4 055626 181776
GTIN	4055626181776

#### Technical data

#### **Dimensions**

Wrench size, union nut	16 mm
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	Strip 21 mm off the cable sheath, strip 6 mm off the conductor insulation, crimp the ferrule, then shorten this to 5 mm. Conductor length with shortened ferrule: 20 mm. Connect conductors and tighten the mounting screws with 0.2 Nm.
	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	16 A (when using 2.5 mm² conductors)
	16 A (at 40 °C)
Rated voltage	630 V AC
Number of positions	3
Color handle area	black
Insulation resistance	> 10 GΩ
Coding	S power
Standards/regulations	M12 connector IEC 61076-2-111
Status display	No
Overvoltage category	III
Degree of pollution	3
Connection method	Screw connection
Conductor cross section	0.75 mm² 1.5 mm² (without ferrule)
	0.75 mm² 1.5 mm² (with ferrule)
	0.75 mm² 2.5 mm² (solid)
Conductor cross section AWG	18 14 (without ferrule)
	18 16 (with ferrule)
Insertion/withdrawal cycles	> 100
Torque	0.4 Nm (M12 knurl)
	0.8 Nm 1 Nm (Pressure screw with sleeve housing)
	0.4 Nm (Screw plug insert with sleeve housing as far it will go)
	0.2 Nm (Screw terminal blocks)
Assembly instructions	The wires can be connected both with ferrules and without ferrules

#### Material

Flammability rating according to UL 94	V0
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PA
Material of grip body	PA
Material, knurls	Zinc die-cast, nickel-plated
Sealing material	NBR (Cable clamping)

### Standards and Regulations

Standards/specifications	M12 connector IEC 61076-2-111
Flammability rating according to UL 94	V0



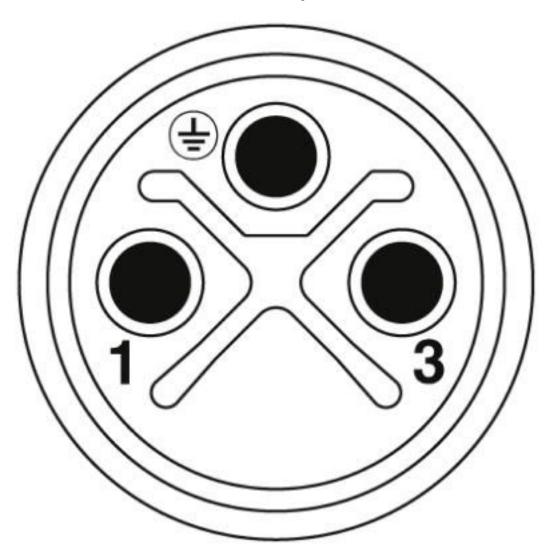
### Technical data

### **Environmental Product Compliance**

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

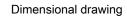
## Drawings

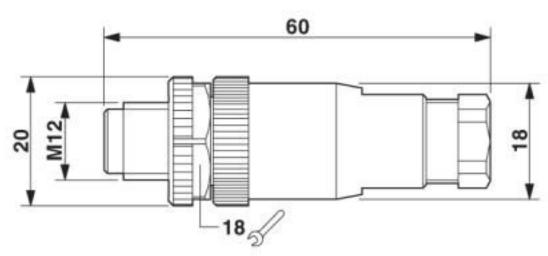
### Schematic diagram



Pin assignment of M12 plug, 3-pos., S-coded, view of pin side







Plug, M12 x 1, straight

### Classifications

### eCl@ss

eCl@ss 10.0.1	27440102
eCl@ss 5.1	27143423
eCl@ss 6.0	27279200
eCl@ss 7.0	27440104
eCl@ss 8.0	27440104
eCl@ss 9.0	27440102

#### **ETIM**

ETIM 5.0	EC002635
ETIM 6.0	EC002635
ETIM 7.0	EC002635

## Approvals

Approvals

Approvals

EAC / EAC / UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

Approval details



## **Approvals**

EAC	ERC	RU C- DE.BL08.B.00511
EAC	EAC	RU C- DE.BL08.B.00511

UL Recognized	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index	.htm FILE E 221474
Nominal voltage UN	600 V	
Nominal current IN	16 A	
mm²/AWG/kcmil	14	

cUL Recognized	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 221474	
Nominal voltage UN	600 V	
Nominal current IN	16 A	
mm²/AWG/kcmil	14	

	c <b>Al</b> us	cULus Recognized
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#### Accessories

Accessories

Cable end sleeve

Ferrule - AI 1,5 - 6 BK - 3200755



Ferrule, sleeve length: 6 mm, length: 12 mm, color: black

Crimping tool



#### Accessories

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

#### Stripping tool

Stripping tool - WIREFOX 6SC - 1212158



Stripping tool, for cables and conductors (especially for cables protected against short circuits and ground leakages) 1.5 - 6 mm², self-adjusting, stripping length of up to 18 mm, cutting capacity of up to 10 mm² stranded/1.5 mm² solid, replaceable stripping blade



#### Accessories

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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