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Power cable, 4-position, PVC, black, shielded (Advanced Shielding Technology), Plug straight M12, coding: S, on Socket straight M12, coding: S, cable length: 2 m



## Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Protection against incorrect connection using special S-coding
- Shield power reliably – 360° shielding to reduce electromagnetic loads

## Commercial data

Item number	1291377
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF75
Product key	AF1IKH
GTIN	4063151527242
Weight per piece (including packing)	22.22 g
Weight per piece (excluding packing)	22.22 g
Country of origin	US

## Technical data

### Product properties

Product type	Power cable
Application	Energy supply
Number of positions	4
No. of cable outlets	1
Shielded	yes
Coding	S

### Insulation characteristics

Overvoltage category	III
Degree of pollution	3

### Material specifications

Flammability rating according to UL 94	V0
Material of grip body	PP
Contact material	CuZn
Contact surface material	Ni/Au
Contact carrier material	PA
Material for screw connection	Zinc die-cast, nickel-plated

### Electrical properties

Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage $U_N$	600 V AC (Dielectric withstand 2.2KV AC)
Nominal current $I_N$	16 A

### Mechanical properties

Mechanical data	
Insertion/withdrawal cycles	> 100

### Connector

Connection 1	
Type	Plug straight M12
Coding type	S (Power)

### Connection 2

Type	Socket straight M12
Coding type	S (Power)

### Cable/line

Cable length	2 m
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TC-ER 600V [PVC]

# SAC-4P-M12MSS/ 2,0-U60/FSSPESH - Power cable

1291377

<https://www.phoenixcontact.com/us/products/1291377>



Number of positions	4
Shielded	yes
Cable type	TC-ER 600V [PVC]
Conductor structure, voltage supply	41/30
AWG power supply	14
Wire diameter incl. insulation	2.87 mm ±0.05 mm
External cable diameter	10.54 mm
Outer sheath, material	PVC
External sheath, color	black
Conductor material	Bare Cu litz wires
Material wire insulation	PVC, nylon covering
Single wire, color	black, white, red, green
Thickness, insulation	approx. 0.50 mm (20 mil)
Thickness, outer sheath	approx. 1.40 mm (55 mil)
Nominal voltage, cable	600 V
Minimum bending radius, fixed installation	10 x D
Minimum bending radius, flexible installation	15 x D
Dynamic load capacity (bending)	Max. bending cycles: 1000000
Flame resistance	FT4
Fire protection in rail vehicles	UL TC-ER
Other resistance	oil resistant sunlight resistant direct burial water resistant
Ambient temperature (operation)	-40 °C ... 90 °C (cable, fixed installation) -40 °C ... 90 °C (Cable, flexible installation)

## Environmental and real-life conditions

### Ambient conditions

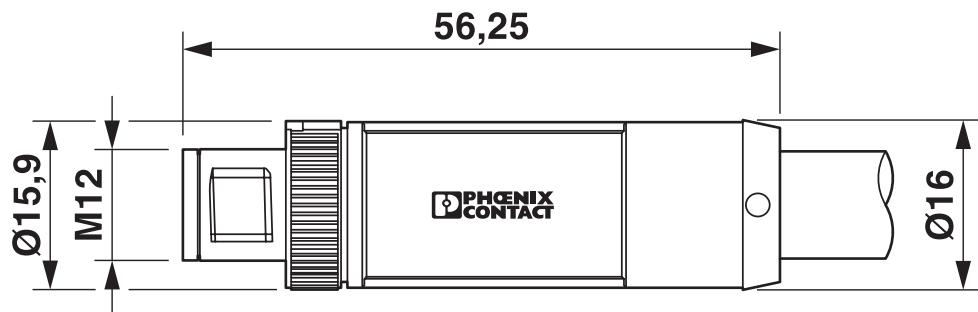
Degree of protection	IP65
	IP67
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 85 °C (Plug / socket)

## Standards and regulations

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-111
Standards/specifications	UL 2237
Note	Type 4 indoor, 12

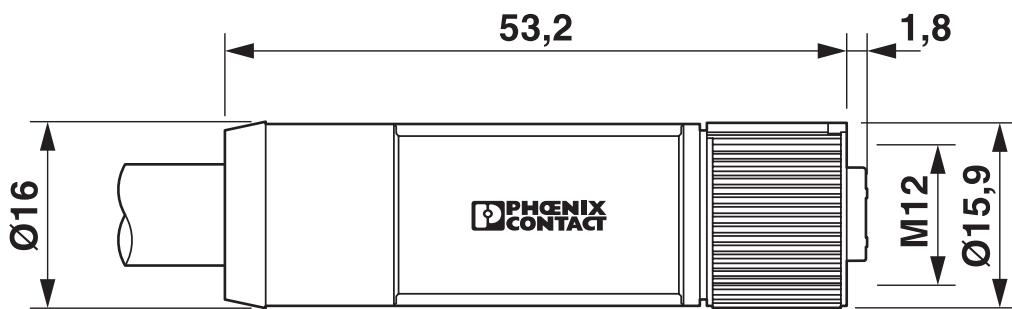
## Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Dimensional drawing



M12 x 1 socket, straight

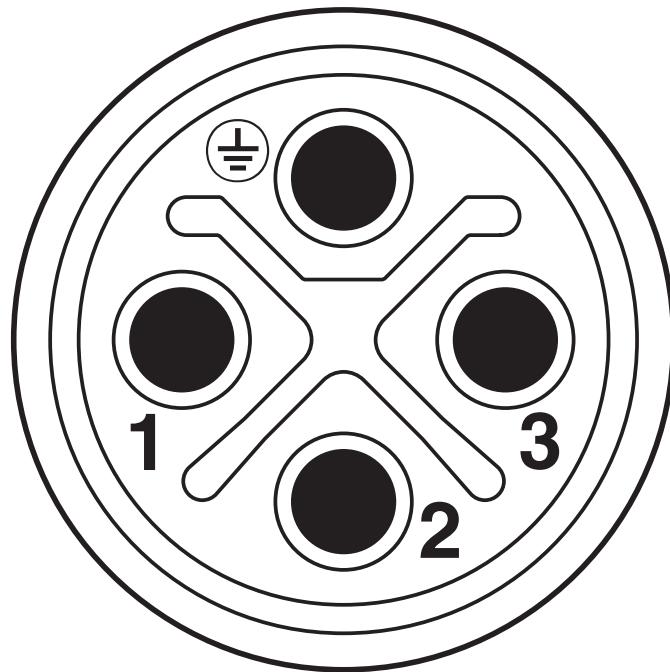
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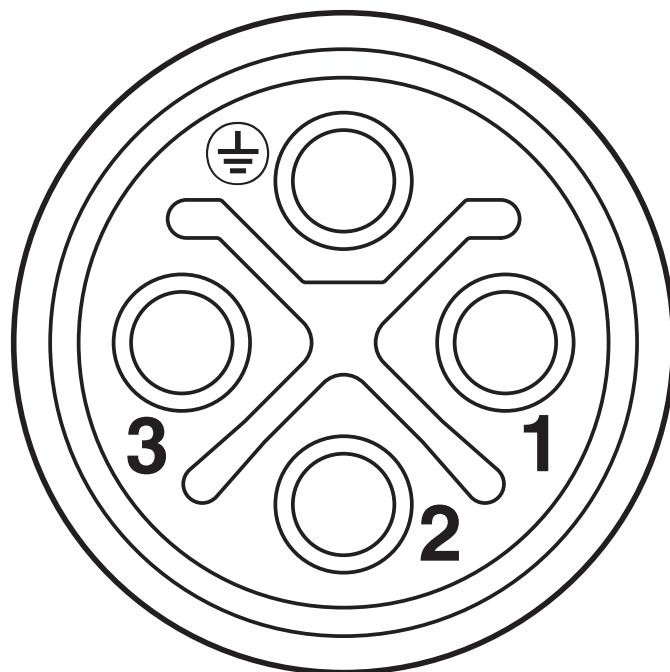


Schematic diagram



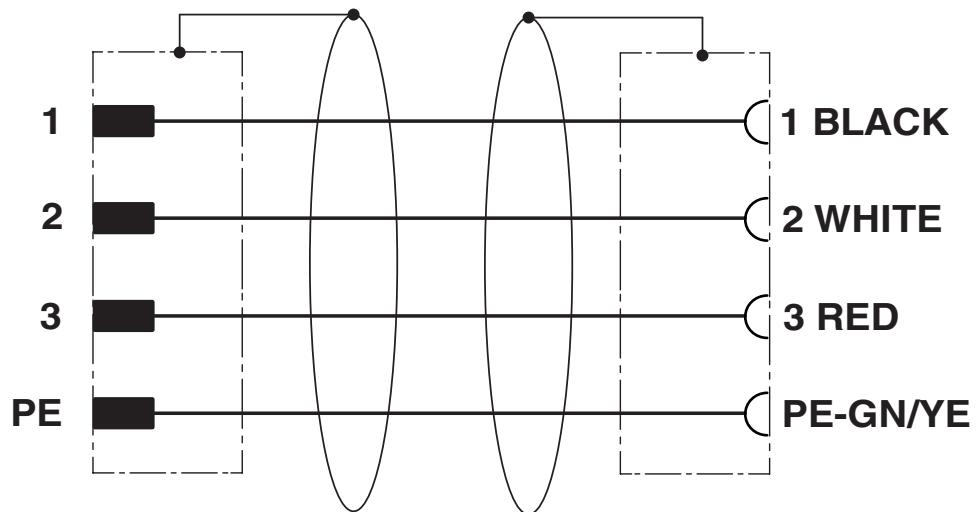
M12 plug pin assignment, 4-pos., S-coded, plug side view

Schematic diagram



Pin assignment of M12 socket, 4-pos., S-coded, socket side view

Circuit diagram



## Classifications

### ECLASS

ECLASS-13.0	27060327
ECLASS-15.0	27060327

### ETIM

ETIM 9.0	EC001855
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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## Accessories

### M12 POWER LOCK - Locking clip

1292631

<https://www.phoenixcontact.com/us/products/1292631>

Locking clip for the socket and plug side of M12 power products. Prevents the disconnection of plug-in connections without tools.



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### PROT M12 MS PWR - Screw plug

1092802

<https://www.phoenixcontact.com/us/products/1092802>

An M12 screw plug for the unoccupied M12 females of the M12 POWER connectors, boxes, and flush-type connectors



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## PROT-M12 FS - Sealing cap

1560251

<https://www.phoenixcontact.com/us/products/1560251>



M12 sealing cap for unoccupied M12 plugs of the sensor/actuator cable, flush-type plugs and I/O devices in the field

## SAC BIT M12-D16 - Tool

1200305

<https://www.phoenixcontact.com/us/products/1200305>



Nut for assembling sensor/actuator cables with M12 connector and M12 connectors for assembly, knurl diameter: 16 mm, for 4 mm hexagonal drive

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