

SAC-3P-M12MRS/ 1,0-U60/FRS PE - Power cable



1291410

<https://www.phoenixcontact.com/us/products/1291410>

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Power cable, 3-position, PVC, black, Plug angled M12, coding: S, on Socket angled M12, coding: S, cable length: 1 m

Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Protection against incorrect connection using special S-coding

Commercial data

Item number	1291410
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF75
Product key	AF1IKA
GTIN	4063151527563
Weight per piece (including packing)	22.22 g
Weight per piece (excluding packing)	22.22 g
Country of origin	US

SAC-3P-M12MRS/ 1,0-U60/FRS PE - Power cable



1291410

<https://www.phoenixcontact.com/us/products/1291410>

Technical data

Product properties

Product type	Power cable
Application	Energy supply
Number of positions	3
No. of cable outlets	1
Shielded	no
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 angled M12
Coding type	S (Power)

Connection 2

Type	Socket angled M12
Coding type	S (Power)

Cable/line

Cable length	1 m
--------------	-----

TC-ER 600V [PVC]

SAC-3P-M12MRS/ 1,0-U60/FRS PE - Power cable



1291410

<https://www.phoenixcontact.com/us/products/1291410>

Number of positions	3
Shielded	no
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	9.27 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, 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	7 x D
Minimum bending radius, flexible installation	10 x D
Dynamic load capacity (bending)	Max. bending cycles: 2000000
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

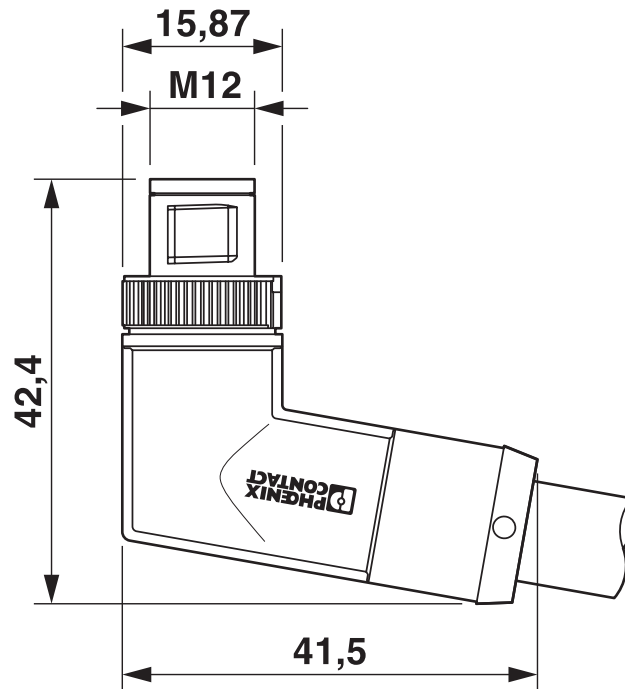
Degree of protection	IP65
	IP67
Ambient temperature (operation)	-25 °C ... 85 °C (Plug / socket)

Standards and regulations

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

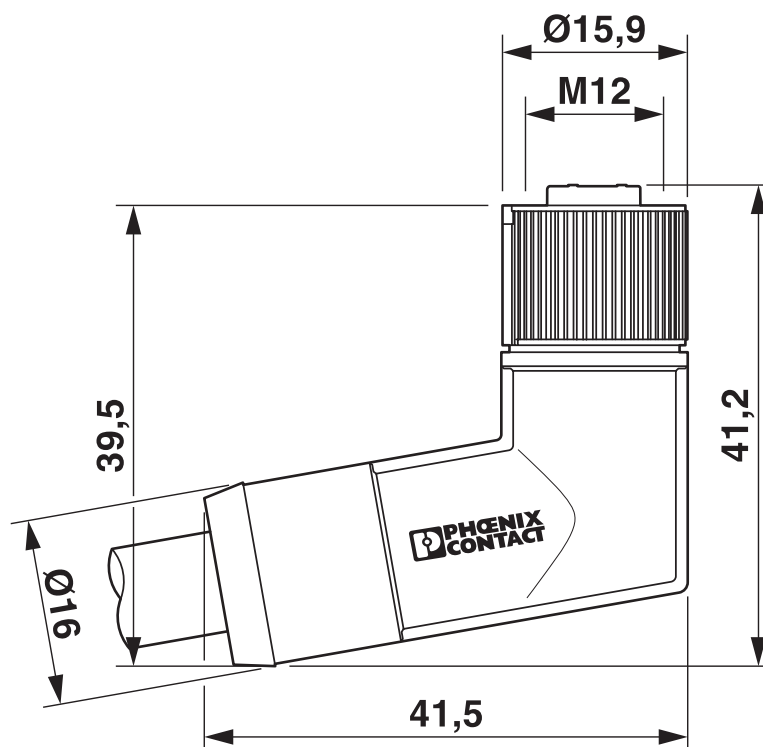
Drawings

Dimensional drawing



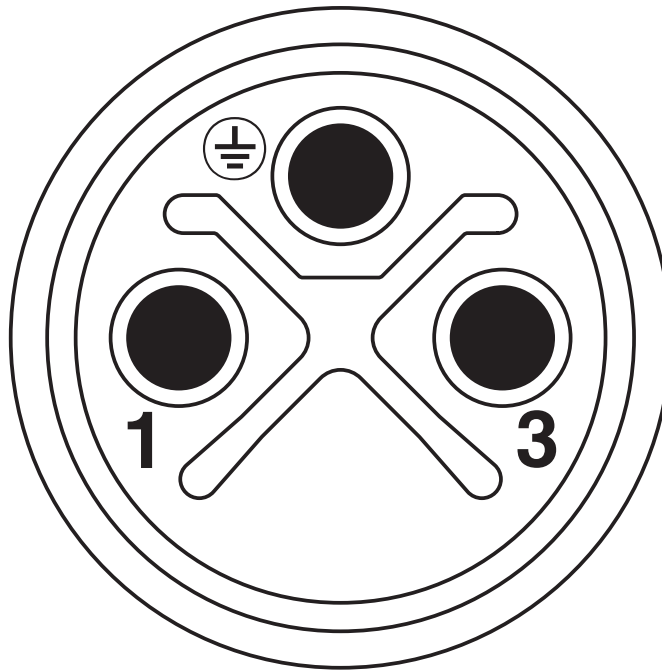
M12 x 1 male plug, angled

Dimensional drawing



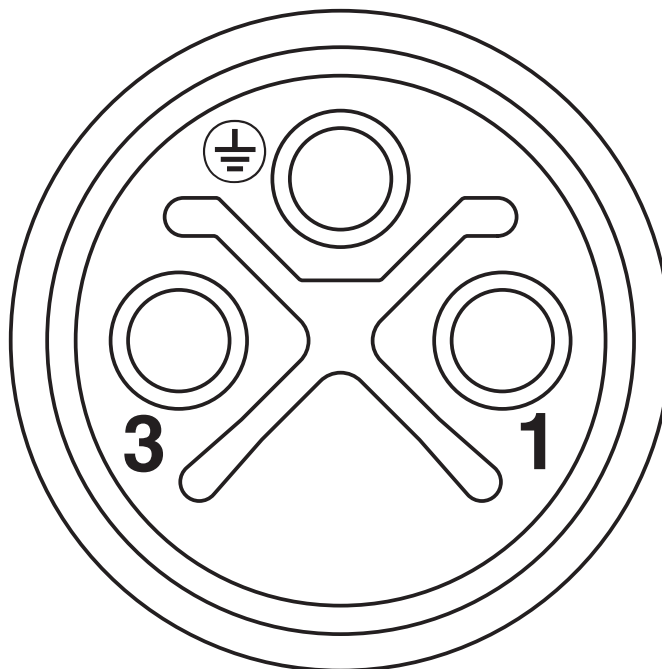
M12 x 1 socket, angled

Schematic diagram



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

Schematic diagram



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

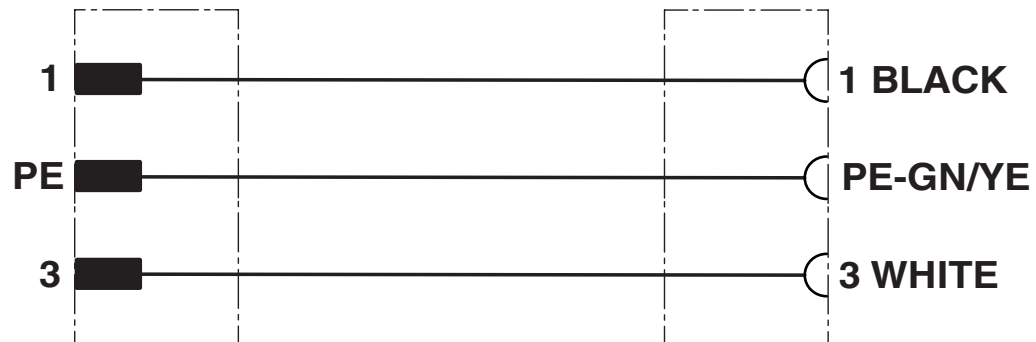
SAC-3P-M12MRS/ 1,0-U60/FRS PE - Power cable



1291410

<https://www.phoenixcontact.com/us/products/1291410>

Circuit diagram



SAC-3P-M12MRS/ 1,0-U60/FRS PE - Power cable



1291410

<https://www.phoenixcontact.com/us/products/1291410>

Classifications

ECLASS

ECLASS-13.0	27060327
ECLASS-15.0	27060327

ETIM

ETIM 9.0	EC001855
----------	----------

SAC-3P-M12MRS/ 1,0-U60/FRS PE - Power cable



1291410

<https://www.phoenixcontact.com/us/products/1291410>

Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
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%

SAC-3P-M12MRS/ 1,0-U60/FRS PE - Power cable



1291410

<https://www.phoenixcontact.com/us/products/1291410>

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.



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



SAC-3P-M12MRS/ 1,0-U60/FRS PE - Power cable



1291410

<https://www.phoenixcontact.com/us/products/1291410>

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

Phoenix Contact 2025 © - all rights reserved
<https://www.phoenixcontact.com>

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com