SAC-5P-M12MSK/ 5,0-U60 PE SH - Power cable

1291359

https://www.phoenixcontact.com/us/products/1291359

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Power cable, 5-position, PVC, black, shielded (Advanced Shielding Technology), Plug straight M12, coding: K, on free cable end, cable length: 5 m

Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Protection against mismatching, thanks to special K-coding
- Shield power reliably – 360° shielding to reduce electromagnetic loads

Commercial data

Item number	1291359
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF75
Product key	AF1IKJ
GTIN	4063151527143
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	5
No. of cable outlets	1
Shielded	yes
Coding	K

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	≥ 100 MΩ
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	K (Power)

Connection 2

Type	free cable end

Cable/line

Cable length	5 m

TC-ER 600V [PVC]

Number of positions	5

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	10.92 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, blue, 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

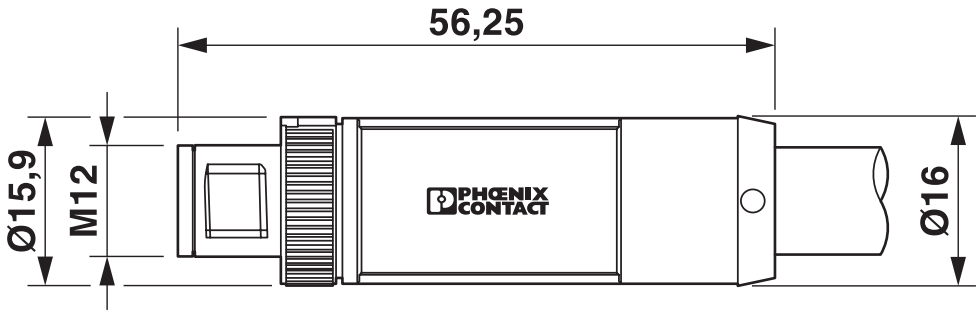
Degree of protection	IP65
	IP67
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 85 °C (Plug / socket)

Standards and regulations

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

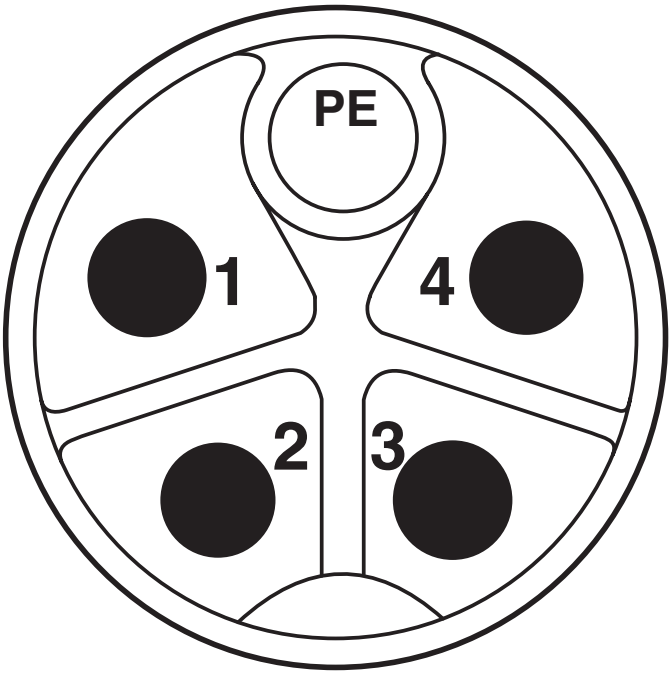
Drawings

Dimensional drawing



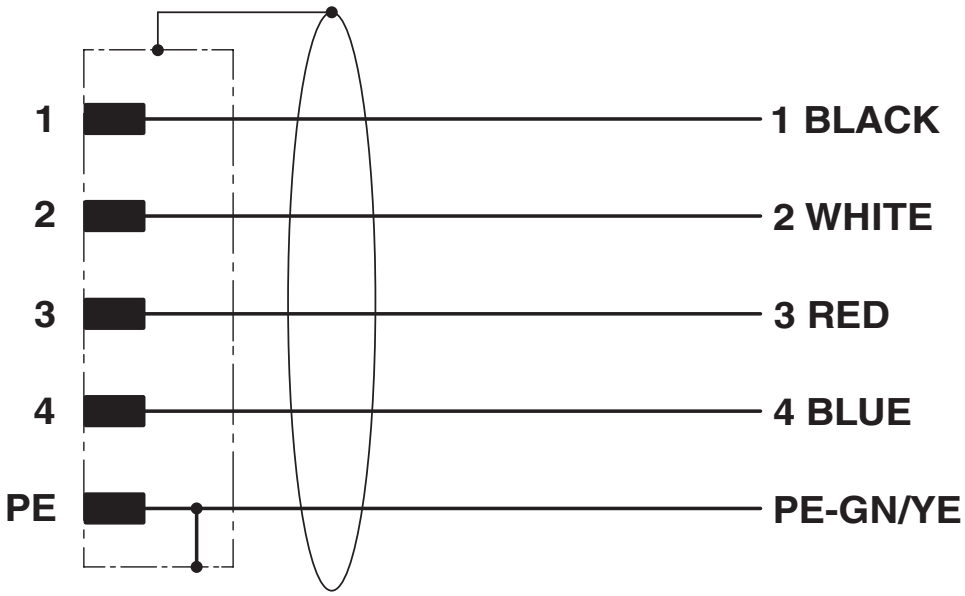
Plug, M12 x 1, straight, shielded

Schematic diagram



Connector pin assignment of M12 plug, 5-pos., K-coded, pin side view

Circuit diagram



Classifications

ECLASS

ECLASS-13.0	27060327
ECLASS-15.0	27060327

ETIM

ETIM 9.0	EC001855

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%

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