

SAC-5P- 5,0-PVC/M12FS - Sensor/actuator cable



1453889

<https://www.phoenixcontact.com/au/products/1453889>

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Sensor/actuator cable, 5-position, PVC, black RAL 9005, free cable end, on Socket straight M12, coding: A, cable length: 5 m

Your advantages

- Easy and safe: 100 % electrically tested plug-in components

Commercial data

Item number	1453889
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	AF1CDA
Product key	AF1CDA
Catalog page	Page 202 (C-2-2019)
GTIN	4046356573047
Weight per piece (including packing)	209.7 g
Weight per piece (excluding packing)	163.8 g
Customs tariff number	85444290
Country of origin	CN

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Technical data

Product properties

Product type	Sensor/actuator cable
Application	Standard
Number of positions	5
No. of cable outlets	1
Shielded	no
Coding	A

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Material specifications

Flammability rating according to UL 94	HB
Seal material	NBR
Material of grip body	TPU, hardly inflammable, self-extinguishing
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material for screw connection	Zinc die-cast, nickel-plated

Electrical properties

Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	48 V AC
	60 V DC
Nominal current I_N	4 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
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Signaling

Status display	no
Status display present	no

Connector

Connection 1

Type	free cable end
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Connection 2

Type	Socket straight M12
Number of positions	5

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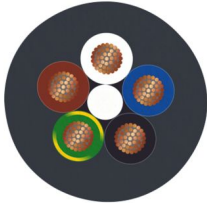
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Coding type	A
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Cable/line

Cable length	5 m
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PVC black [PVC]

Dimensional drawing		
Cable weight	51 kg/km	
UL AWM Style	2464 / 1729 (80°C/300 V)	
Number of positions	5	
Shielded	no	
Cable type	PVC black [PVC]	
Conductor structure signal line	19x 0.15 mm	
AWG signal line	22	
Conductor cross section	5x 0.34 mm ² (Signal line)	
Wire diameter incl. insulation	1.26 mm ±0.05 mm	
External cable diameter	5.00 mm ±0.15 mm	
Outer sheath, material	PVC	
External sheath, color	black RAL 9005	
Conductor material	Bare Cu litz wires	
Material wire insulation	PVC	
Single wire, color	brown, white, blue, black, green-yellow	
Thickness, insulation	≥ 0.23 mm (Core insulation)	
Thickness, outer sheath	≥ 0.76 mm	
Overall twist	5 wires around filler to the core	
Max. conductor resistance	max. 57 Ω/km (at 20 °C)	
Insulation resistance	≥ 200 MΩ*km (at 20 °C)	
Nominal voltage, cable	≤ 300 V	
Test voltage	≥ 3000 V	
Minimum bending radius, fixed installation	5 x D	
Minimum bending radius, flexible installation	10 x D	
Smallest bending radius, fixed installation	25 mm	
Smallest bending radius, movable installation	50 mm	
Flame resistance	UL VW-1	
Resistance to oil	in accordance with DIN EN 60811-2-1	
Ambient temperature (operation)	-25 °C ... 80 °C (cable, fixed installation)	
	-10 °C ... 80 °C (Cable, flexible installation)	

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Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67
	IP68
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 90 °C (Plug / socket)

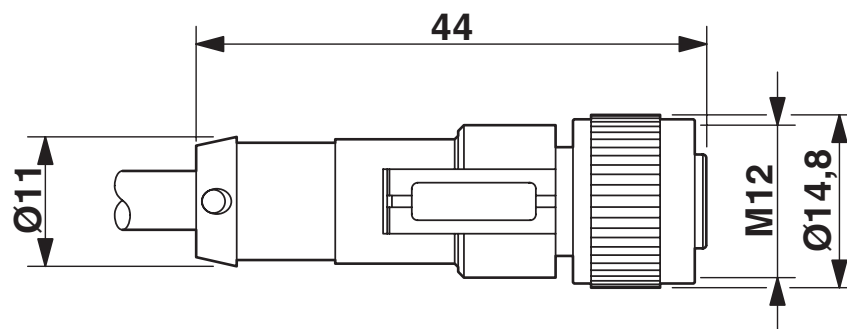
Standards and regulations

M12

Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101

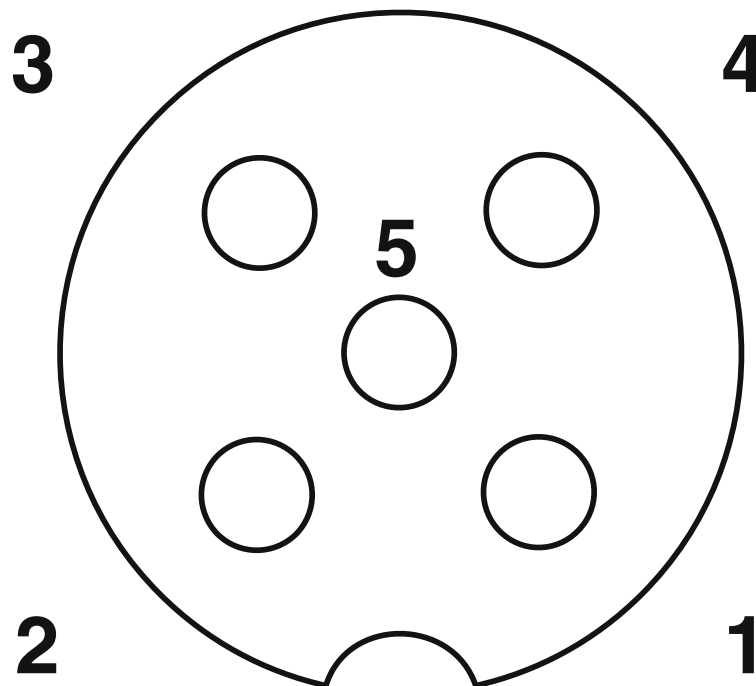
Drawings

Dimensional drawing



M12 x 1 socket, straight

Schematic diagram



Pin assignment M12 socket, 5-pos., A-coded, socket side view

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Circuit diagram



Contact assignment of the M12 sockets

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Approvals

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	UL Listed Approval ID: FILE E 221474			
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	125 V	4 A	-	-

	cUL Listed Approval ID: FILE E 221474			
	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	125 V	4 A	-	-

	EAC-RoHS Approval ID: RU D-DE.HB35.B.00387			

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Classifications

ECLASS

ECLASS-13.0	27060311
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ETIM

ETIM 9.0	EC001855
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UNSPSC

UNSPSC 21.0	26121600
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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%
EF3.0 Climate Change	
CO2e kg	1.879 kg CO2e

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