

SAC-5P-M12MS/10,0-500/FS SH BK - Sensor/actuator cable

1203684
<https://www.phoenixcontact.com/us/products/1203684>

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.



Sensor/actuator cable, 5-position, PVC, gray RAL 7001, shielded, Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 10 m

Commercial data

Item number	1203684
Packing unit	1 pc
Minimum order quantity	100 pc
Note	Made to order (non-returnable)
Product key	AF1CKA
GTIN	4063151269777
Weight per piece (including packing)	604.1 g
Weight per piece (excluding packing)	604.1 g
Country of origin	PL

SAC-5P-M12MS/10,0-500/FS SH BK - Sensor/actuator cable



1203684

<https://www.phoenixcontact.com/us/products/1203684>

Technical data

Product properties

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

Material specifications

Seal material	NBR
Contact material	CuSn
Contact surface material	Ni/Au
Contact carrier material	TPU
Material for screw connection	Die-cast zinc

Electrical properties

Nominal voltage U_N	48 V AC
	60 V DC
Nominal current I_N	4 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
-----------------------------	------------

Signaling

Status display	no
Status display present	no

Connector

Connection 1

Type	Plug straight M12
Number of positions	5
Coding type	A

Connection 2

Type	Socket straight M12
Number of positions	5
Coding type	A

Cable/line

Cable length	10 m
--------------	------

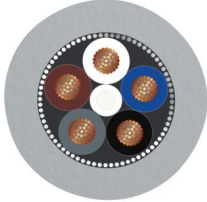
PVC gray [500]

SAC-5P-M12MS/10,0-500/FS SH BK - Sensor/actuator cable



1203684

<https://www.phoenixcontact.com/us/products/1203684>

Dimensional drawing	
Cable weight	55 kg/km
Number of positions	5
Shielded	yes
Cable type	PVC gray [500]
Conductor structure signal line	42x 0.10 mm
AWG signal line	22
Conductor cross-section	5x 0.34 mm ² (Signal line)
Wire diameter incl. insulation	1.35 mm ±0.02 mm
External cable diameter	5.90 mm ±0.2 mm
Outer sheath, material	PVC
External sheath, color	gray RAL 7001
Conductor material	Bare Cu litz wires
Material, filler	PVC
Material wire insulation	PVC
Single wire, color	brown, white, blue, black, gray
Thickness, insulation	≥ 0.23 mm (Core insulation) ≥ 0.76 mm (Outer cable sheath)
Overall twist	5 wires around filler to the core
Optical shield covering	85 %
Max. conductor resistance	max. 58 Ω/km (at 20 °C)
Insulation resistance	≥ 1 GΩ*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	30 mm
Smallest bending radius, movable installation	59 mm
Flame resistance	As per UL-Style 2464
Resistance to oil	in accordance with DIN EN 60811-2-1
Ambient temperature (operation)	-25 °C ... 80 °C (cable, fixed installation) -5 °C ... 80 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
----------------------	------

SAC-5P-M12MS/10,0-500/FS SH BK - Sensor/actuator cable



1203684
<https://www.phoenixcontact.com/us/products/1203684>

	IP67
Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)
	-25 °C ... 80 °C (cable, fixed installation)
	-5 °C ... 80 °C (Cable, flexible installation)

SAC-5P-M12MS/10,0-500/FS SH BK - Sensor/actuator cable

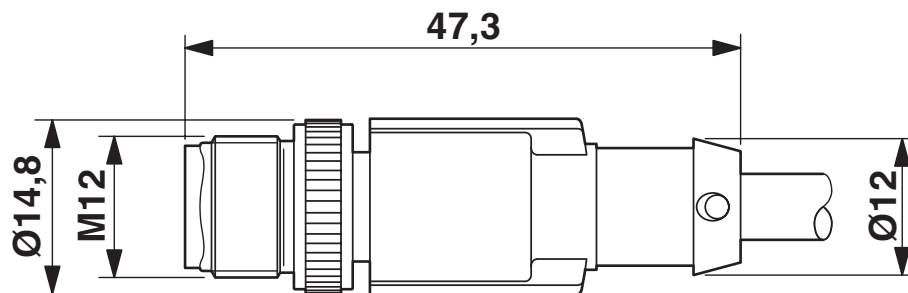


1203684

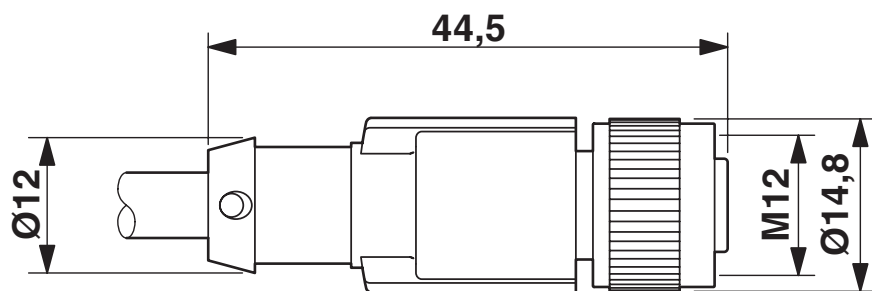
<https://www.phoenixcontact.com/us/products/1203684>

Drawings

Dimensional drawing



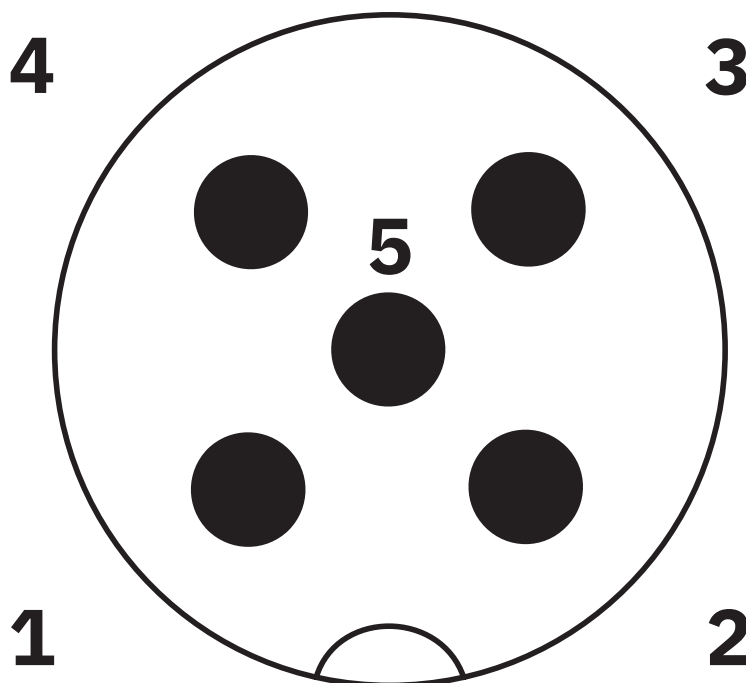
Dimensional drawing



1203684

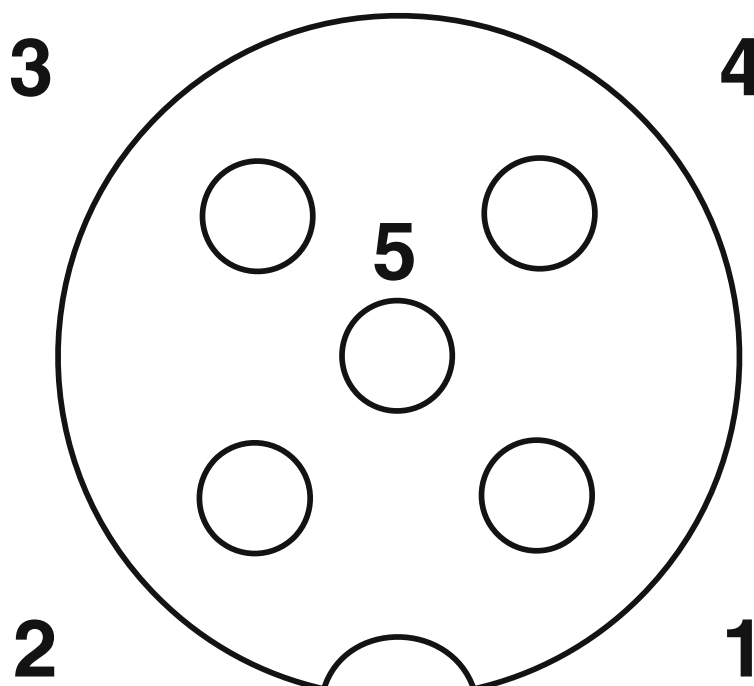
<https://www.phoenixcontact.com/us/products/1203684>

Schematic diagram



Pin assignment M12 male connector, 5-pos., A-coded, male side

Schematic diagram



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

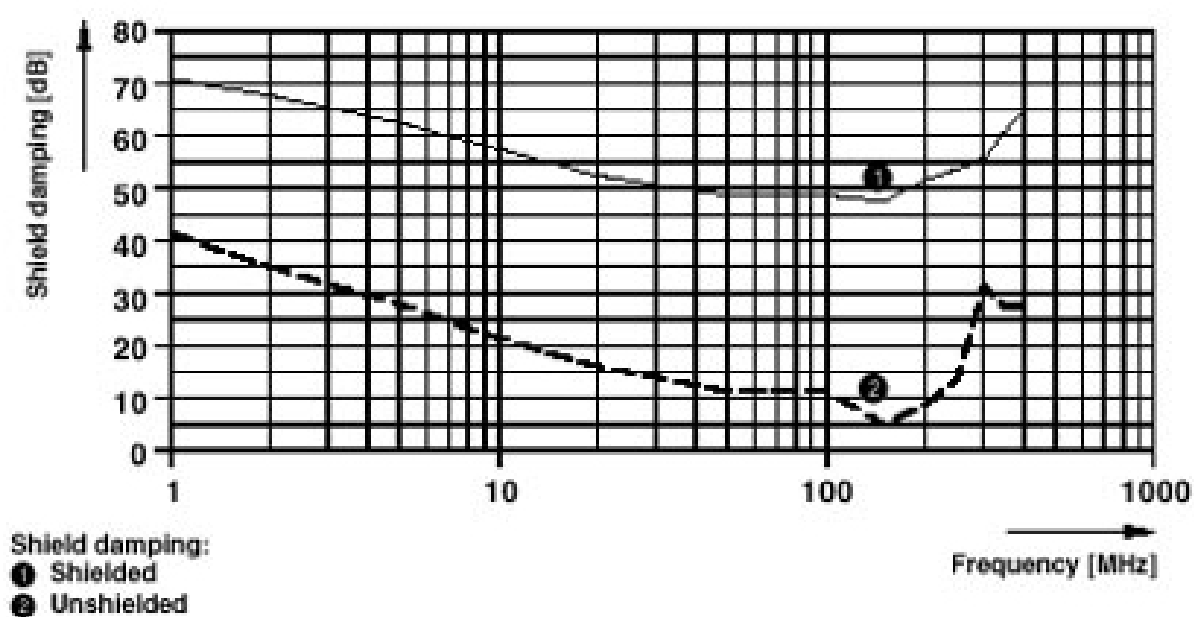
SAC-5P-M12MS/10,0-500/FS SH BK - Sensor/actuator cable



1203684

<https://www.phoenixcontact.com/us/products/1203684>

Diagram



SAC-5P-M12MS/10,0-500/FS SH BK - Sensor/actuator cable



1203684

<https://www.phoenixcontact.com/us/products/1203684>

Circuit diagram



SAC-5P-M12MS/10,0-500/FS SH BK - Sensor/actuator cable



1203684

<https://www.phoenixcontact.com/us/products/1203684>

Classifications

ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

ETIM

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

UNSPSC

UNSPSC 21.0	26121600
-------------	----------

SAC-5P-M12MS/10,0-500/FS SH BK - Sensor/actuator cable



1203684
<https://www.phoenixcontact.com/us/products/1203684>

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%

Phoenix Contact 2026 © - 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