

SAC-5P-M12MS/ 1,0-PUR/M12FR VW - Sensor/actuator cable



1693940
<https://www.phoenixcontact.com/pc/products/1693940>

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, PUR halogen-free, irradiated, orange RAL 2003, Plug straight M12, coding: A, on Socket angled M12, coding: A, cable length: 1 m, Customer-specific version

Commercial data

Item number	1693940
Packing unit	5 pc
Minimum order quantity	1 pc
Sales key	02
Product key	BF1CDA
GTIN	4017918481735
Weight per piece (including packing)	66.05 g
Weight per piece (excluding packing)	60.4 g
Customs tariff number	85444290
Country of origin	PL

SAC-5P-M12MS/ 1,0-PUR/M12FR VW - Sensor/actuator cable



1693940

<https://www.phoenixcontact.com/pc/products/1693940>

Technical data

Product properties

Product type	Sensor/actuator cable
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
-----------------------------	------------

Signaling

Status display	no
Status display present	No

Connector

Connection 1

Type	Plug straight M12
Number of positions	5
Coding type	A

SAC-5P-M12MS/ 1,0-PUR/M12FR VW - Sensor/actuator cable



1693940

<https://www.phoenixcontact.com/pc/products/1693940>

Connection 2

Type	Socket angled M12
Number of positions	5
Coding type	A

Cable/line

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

PUR irradiated halogen-free orange [150]

Dimensional drawing	
Number of positions	5
Shielded	no
Cable type	PUR irradiated halogen-free orange [150]
Conductor structure signal line	42x 0.10 mm
AWG signal line	22
Conductor cross section	4x 0.34 mm ² (Signal line) 1x 0.5 mm ² (PE connection)
External cable diameter	5.20 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	orange RAL 2003
Conductor material	Bare Cu litz wires
Material wire insulation	PE
Single wire, color	brown, white, blue, black, green-yellow
Overall twist	5 cores, twisted
Max. conductor resistance	≤ 57.5 Ω/km (with 0.34 mm ² conductor cross section) ≤ 39 Ω/km (with 0.5 mm ² conductor cross section)
Nominal voltage, cable	250 V (AC)
Test voltage	2000 V (50 Hz, 5 minutes)
Smallest bending radius, fixed installation	20 mm
Smallest bending radius, movable installation	30 mm
Max. bending cycles	5000000
Bending radius	52 mm
Traversing path	10 m
Traversing rate	3 m/s
Halogen-free	The cable is halogen-free

SAC-5P-M12MS/ 1,0-PUR/M12FR VW - Sensor/actuator cable



1693940

<https://www.phoenixcontact.com/pc/products/1693940>

Flame resistance	DIN VDE 0472 part 804, test type B
Other resistance	hydrolysis and microbe resistant
	UV resistant
	Resistant to welding splashes
Special properties	Silicone-free
	Irradiated
Ambient temperature (operation)	-50 °C ... 105 °C (cable, fixed installation)
	-40 °C ... 105 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67
	IP68
Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)
	-50 °C ... 105 °C (cable, fixed installation)
	-40 °C ... 105 °C (Cable, flexible installation)

SAC-5P-M12MS/ 1,0-PUR/M12FR VW - Sensor/actuator cable

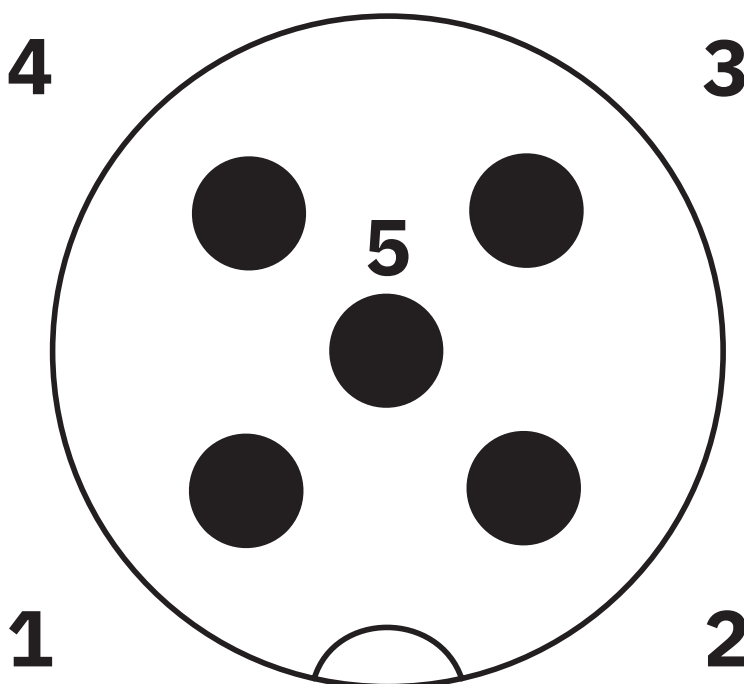


1693940

<https://www.phoenixcontact.com/pc/products/1693940>

Drawings

Schematic diagram



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

Circuit diagram

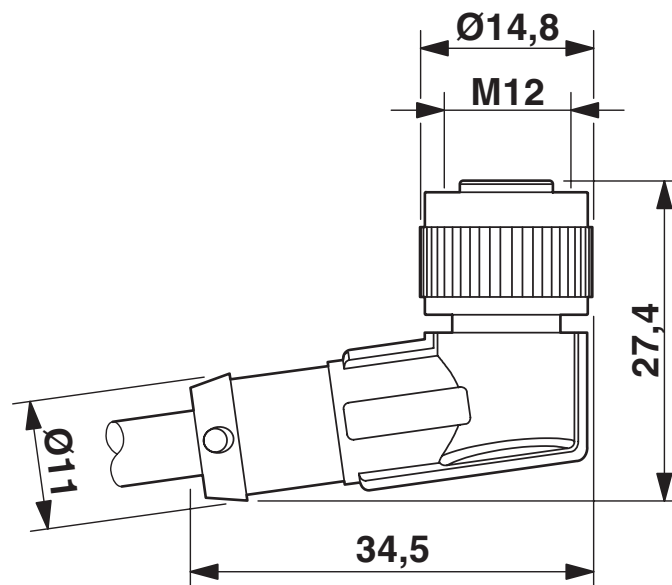


SAC-5P-M12MS/ 1,0-PUR/M12FR VW - Sensor/actuator cable

1693940

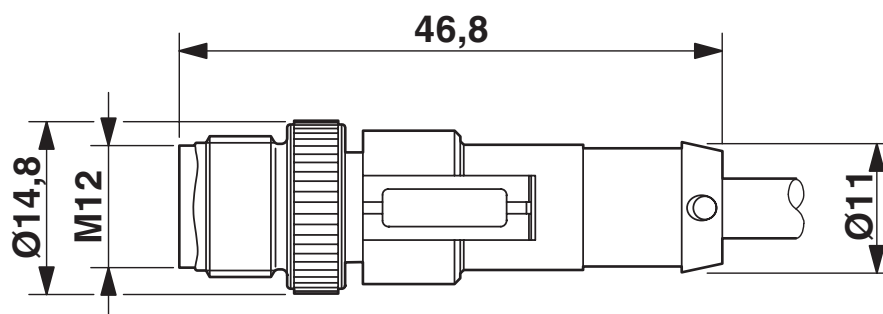
<https://www.phoenixcontact.com/pc/products/1693940>

Dimensional drawing



M12 x 1 socket, angled

Dimensional drawing



Plug, M12 x 1, straight, shielded

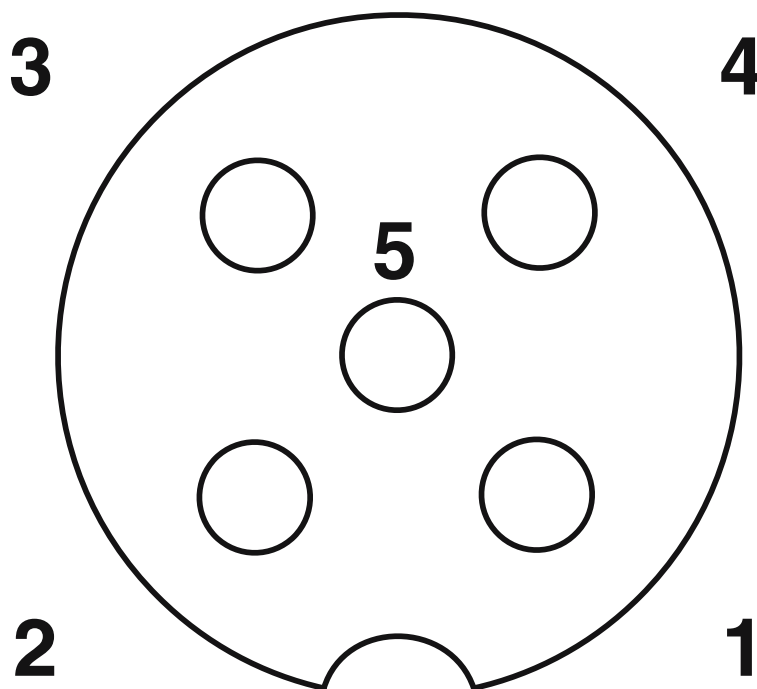
SAC-5P-M12MS/ 1,0-PUR/M12FR VW - Sensor/actuator cable



1693940

<https://www.phoenixcontact.com/pc/products/1693940>

Schematic diagram



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

SAC-5P-M12MS/ 1,0-PUR/M12FR VW - Sensor/actuator cable



1693940
<https://www.phoenixcontact.com/pc/products/1693940>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/pc/products/1693940>

	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	-	-

cULus Listed

SAC-5P-M12MS/ 1,0-PUR/M12FR VW - Sensor/actuator cable



1693940

<https://www.phoenixcontact.com/pc/products/1693940>

Classifications

ECLASS

ECLASS-11.0	27060311
ECLASS-12.0	27060311
ECLASS-13.0	27060311

ETIM

ETIM 8.0	EC001855
----------	----------

UNSPSC

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

SAC-5P-M12MS/ 1,0-PUR/M12FR VW - Sensor/actuator cable



1693940
<https://www.phoenixcontact.com/pc/products/1693940>

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 2024 © - all rights reserved
<https://www.phoenixcontact.com>

PHOENIX CONTACT GmbH & Co. KG
Flachsmarktstraße 8
D-32825 Blomberg
+49 (0) 5235-3 00
info@phoenixcontact.com