

SAC-5P-M12MS/ 1,5-PUR/M12FS VW - Sensor/actuator cable



1694059
<https://www.phoenixcontact.com/us/products/1694059>

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Sensor/actuator cable, 5-position, PUR halogen-free, irradiated, orange RAL 2003, Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 1.5 m, Customer version

Commercial data

Item number	1694059
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF03
Product key	BF1CDA
GTIN	4017918221591
Weight per piece (including packing)	79.2 g
Weight per piece (excluding packing)	77.4 g
Customs tariff number	85444290
Country of origin	PL

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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
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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
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Number of positions	5
Coding type	A

Cable/line

Cable length	1.5 m
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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	
Halogen-free	The cable is halogen-free	
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)	

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	-40 °C ... 105 °C (Cable, flexible installation)
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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)

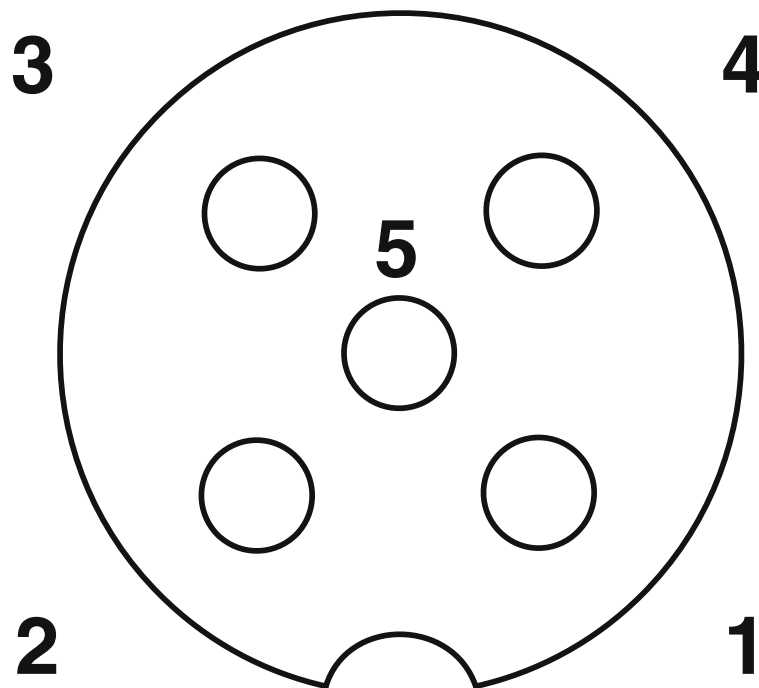
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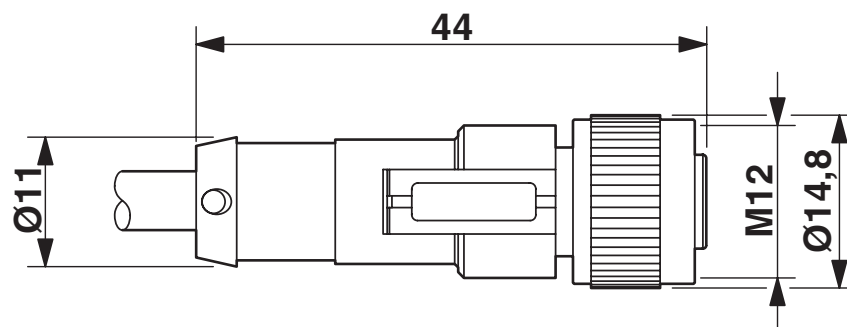
Drawings

Schematic diagram



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

Dimensional drawing



M12 x 1 socket, straight

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Dimensional drawing



Plug, M12 x 1, straight, shielded

Circuit diagram



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Schematic diagram



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

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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			

cULus Listed				
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Classifications

ECLASS

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

ETIM

ETIM 8.0	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%

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