

SAC-5P- 5,0-115/M12FR - Sensor/actuator cable



1505300

<https://www.phoenixcontact.com/us/products/1505300>

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, black-gray RAL 7021, free cable end, on Socket angled M12, coding: A, cable length: 5 m

Your advantages

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

Commercial data

Item number	1505300
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF03
Product key	AF1CDA
GTIN	4017918858001
Weight per piece (including packing)	178.2 g
Weight per piece (excluding packing)	169 g
Customs tariff number	85444290
Country of origin	PL

1505300

<https://www.phoenixcontact.com/us/products/1505300>

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
Outer sheath, material	PUR
Conductor material	Bare Cu litz wires

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
Max. conductor resistance	58 Ω /km

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
Max. bending cycles	4000000

Signaling

Status display	no
Status display present	no

Connection data

Conductor connection

SAC-5P- 5,0-115/M12FR - Sensor/actuator cable



1505300

<https://www.phoenixcontact.com/us/products/1505300>

Tightening torque	0.4 Nm (M12 connector)
-------------------	------------------------

Connector

Connection 1

Type	free cable end
------	----------------

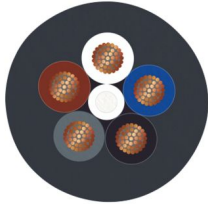
Connection 2

Type	Socket angled M12
Number of positions	5
Coding type	A

Cable/line

Cable length	5 m
--------------	-----

PUR, black, 5th conductor gray [115]

Dimensional drawing	
Cable weight	35 kg/km
UL AWM Style	20549 / 10493 (80°C/300 V)
Number of positions	5
Shielded	no
Cable type	PUR, black, 5th conductor gray [115]
Conductor structure signal line	42x 0.10 mm
AWG signal line	22
Conductor cross-section	5x 0.34 mm ²
Wire diameter incl. insulation	1.27 mm ±0.02 mm
External cable diameter	5.00 mm ±0.15 mm
Outer sheath, material	PUR
External sheath, color	black-gray RAL 7021
Conductor material	Bare Cu litz wires
Material, filler	PP
Material wire insulation	PP
Single wire, color	brown, white, blue, black, gray
Thickness, insulation	≥ 0.21 mm
Thickness, outer sheath	approx. 0.70 mm
Overall twist	5 cores, twisted
Max. conductor resistance	≤ 58 Ω/km
Nominal voltage, cable	≤ 300 V

SAC-5P- 5,0-115/M12FR - Sensor/actuator cable



1505300

<https://www.phoenixcontact.com/us/products/1505300>

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
Dynamic load capacity (bending)	Max. bending cycles: 10000000, Bending radius: 50 mm, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s ²
Dynamic load capacity (torsion)	Torsion: ±180 °/m, Torsion cycles: ≥5000000, Torsional frequency: 35 cycles/min.
Halogen-free	in accordance with DIN VDE 0472 part 815
Flame resistance	in accordance with DIN UL-Style 20549 in accordance with UL 758/1581 FT2
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	partly UV-resistant (in accordance with DIN EN ISO 4892-2-A) hydrolysis and microbe resistant Resistant to salt water Low adhesion abrasion-resistant
Special properties	Flexible cable conduit capable Silicone-free Free of substances which would hinder coating with paint or varnish flexible
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation) -25 °C ... 80 °C (Cable, flexible installation)

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)
Ambient temperature (operation) (Cable, fixed installation)	-40 °C ... 80 °C (cable, fixed installation)
Ambient temperature (operation) (Cable, flexible installation)	-5 °C ... 80 °C (Cable, flexible installation)

Standards and regulations

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

SAC-5P- 5,0-115/M12FR - Sensor/actuator cable

1505300

<https://www.phoenixcontact.com/us/products/1505300>



Drawings

Dimensional drawing



M12 x 1 socket, angled

Schematic diagram



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

SAC-5P- 5,0-115/M12FR - Sensor/actuator cable



1505300

<https://www.phoenixcontact.com/us/products/1505300>

Circuit diagram



Contact assignment of the M12 sockets

SAC-5P- 5,0-115/M12FR - Sensor/actuator cable



1505300

<https://www.phoenixcontact.com/us/products/1505300>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1505300>

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

SAC-5P- 5,0-115/M12FR - Sensor/actuator cable



1505300

<https://www.phoenixcontact.com/us/products/1505300>

Classifications

ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

ETIM

ETIM 10.0	EC001855
-----------	----------

UNSPSC

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

SAC-5P- 5,0-115/M12FR - Sensor/actuator cable



1505300

<https://www.phoenixcontact.com/us/products/1505300>

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