

SAC-5P-M12MS/ 1,0-817 YE - Sensor/actuator cable



1339963

<https://www.phoenixcontact.com/us/products/1339963>

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, welding sputter-resistant, yellow, Plug straight M12, coding: A, on free cable end, cable length: 1 m

Commercial data

Item number	1339963
Packing unit	1 pc
Minimum order quantity	25 pc
Note	Made to order (non-returnable)
Product key	AF1CDA
GTIN	4063151646141
Weight per piece (including packing)	68.4 g
Weight per piece (excluding packing)	68.4 g
Country of origin	PL

Technical data

Product properties

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

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Material specifications

Flammability rating according to UL 94	HB
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

Connection 2

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

Cable/line

SAC-5P-M12MS/ 1,0-817 YE - Sensor/actuator cable



1339963

<https://www.phoenixcontact.com/us/products/1339963>

Cable length	1 m
PUR, halogen-free, highly flexible, welding-sputter-resistant, yellow [817]	
UL AWM Style	20549 (80°C/300 V)
Number of positions	5
Shielded	no
Cable type	PUR, halogen-free, highly flexible, welding-sputter-resistant, yellow [817]
Conductor structure signal line	42x 0.10 mm
AWG signal line	22
Conductor cross-section	5x 0.34 mm ²
Wire diameter incl. insulation	1.55 mm ±0.05 mm (Signal line)
External cable diameter	6.90 mm ±0.1 mm
Outer sheath, material	PUR
External sheath, color	yellow
Conductor material	Bare Cu litz wires
Material wire insulation	PP
Single wire, color	brown, white, blue, black, gray
Overall twist	5 wires around filler to the core
Max. conductor resistance	approx. 57 Ω/km
Insulation resistance	≥ 20 MΩ*km
Nominal voltage, cable	300 V (Peak value, not for high-power applications)
Test voltage	3000 V (Spark test)
Minimum bending radius, fixed installation	5 x D
Minimum bending radius, flexible installation	10 x D
Smallest bending radius, fixed installation	35 mm
Smallest bending radius, movable installation	69 mm
Dynamic load capacity (bending)	Max. bending cycles: 5000000, Bending radius: 10 x D, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s ² , Ambient temperature: ≤ 60 °C
Halogen-free	in accordance with DIN VDE 0472 part 815
Flame resistance	in acc. with UL FT-2
Other resistance	hydrolysis and microbe resistant
Special properties	Sheath resistant to welding beads, can be recycled, matt, without adhesion, wear-resistant, flame resistant and self-extinguishing
	Free from silicone and cadmium
	Free of substances which would hinder coating with paint or varnish
Ambient temperature (operation)	-40 °C ... 80 °C (cable, fixed installation)
	-25 °C ... 80 °C (Cable, flexible installation)
	≤ 60 °C (cable, drag chain applications)

Environmental and real-life conditions

Ambient conditions

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

SAC-5P-M12MS/ 1,0-817 YE - Sensor/actuator cable



1339963

<https://www.phoenixcontact.com/us/products/1339963>

	IP68
--	------

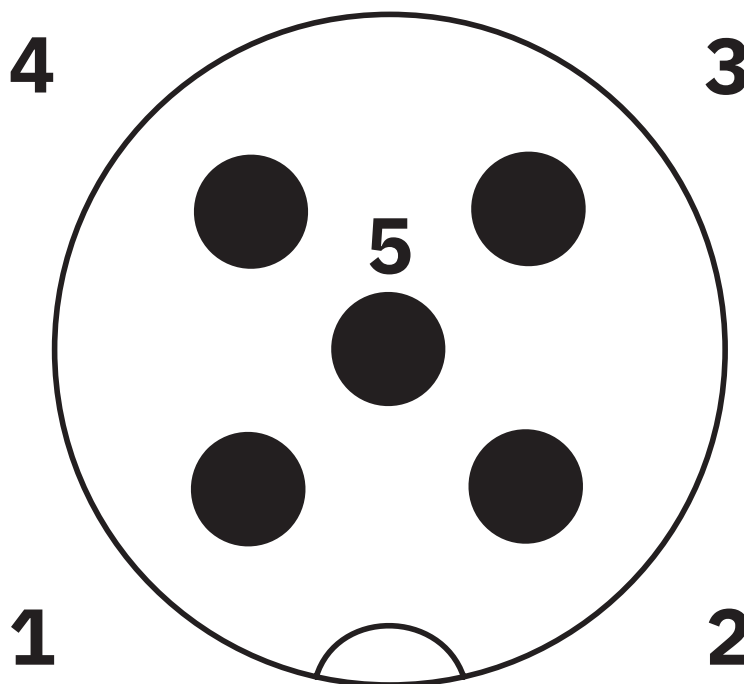
Drawings

Dimensional drawing



Plug, M12 x 1, straight, shielded

Schematic diagram



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

1339963

<https://www.phoenixcontact.com/us/products/1339963>

Circuit diagram



Contact assignment of the M12 plug

1339963
<https://www.phoenixcontact.com/us/products/1339963>

Approvals

 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1339963>

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	-	-

SAC-5P-M12MS/ 1,0-817 YE - Sensor/actuator cable



1339963

<https://www.phoenixcontact.com/us/products/1339963>

Classifications

ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

ETIM

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

UNSPSC

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

SAC-5P-M12MS/ 1,0-817 YE - Sensor/actuator cable



1339963

<https://www.phoenixcontact.com/us/products/1339963>

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%
-------------------------------------	----------------------------

EF3.1 Climate Change

CO2e kg	0.415 kg CO2e
---------	---------------

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