

SAC-8P- 5,0-542/M12FR SH BK - Sensor/actuator cable

1406086
<https://www.phoenixcontact.com/au/products/1406086>

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, 8-position, PVC, yellow, shielded (Tinned copper braided shield), free cable end, on Socket angled M12, coding: A, cable length: 5 m

Commercial data

Item number	1406086
Packing unit	1 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Sales key	BF1IDD
Product key	BF1IDD
GTIN	4046356799621
Weight per piece (including packing)	323.7 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85444290
Country of origin	US

SAC-8P- 5,0-542/M12FR SH BK - Sensor/actuator cable



1406086

<https://www.phoenixcontact.com/au/products/1406086>

Technical data

Product properties

Product type	Sensor/actuator cable
Number of positions	8
Application	Standard, U.S. cables
No. of cable outlets	1
Shielded	yes
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	CuZn
Contact surface material	Ni/Au
Contact carrier material	TPU GF
Material for screw connection	Zinc die-cast, nickel-plated
Outer sheath, material	PVC

Electrical properties

Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	30 V AC
	30 V DC
Nominal current I_N	2 A
Protective circuit	unwired

Mechanical properties

Mechanical data

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

Signaling

Status display	No
Status display present	No

Connection data

Conductor connection

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

SAC-8P- 5,0-542/M12FR SH BK - Sensor/actuator cable



1406086

<https://www.phoenixcontact.com/au/products/1406086>

Connector

Connection 1

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

Connection 2

Type	Socket angled M12
Number of positions	8
Coding type	A

Cable/line

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

PVC yellow 105 °C [542]

Dimensional drawing	
Cable weight	58 kg/km
UL AWM Style	2517 (105 °C / 300 V)
Number of positions	8
Shielded	yes
Cable type	PVC yellow 105 °C [542]
Conductor structure signal line	32x 1.10 mm
AWG signal line	24
Wire diameter incl. insulation	1.12 mm ±0.03 mm
External cable diameter	6.30 mm ±0.2 mm
Outer sheath, material	PVC
External sheath, color	yellow
Conductor material	Tin-plated Cu litz wires
Material, filler	PP
Material wire insulation	PVC
Single wire, color	white, brown, green, yellow, gray, pink, blue, red
Overall twist	8 wires around filler to the core
Optical shield covering	85 %
Max. conductor resistance	max. 79.7 Ω/km (20 °C)
Insulation resistance	≥ (550 M Ohms/m @ 500V)
Nominal voltage, cable	300 V
Minimum bending radius, flexible installation	12 x D
Smallest bending radius, movable installation	76 mm

SAC-8P- 5,0-542/M12FR SH BK - Sensor/actuator cable



1406086

<https://www.phoenixcontact.com/au/products/1406086>

Flame resistance	FT1, VW-1
Other resistance	UV resistant
Ambient temperature (operation)	-30 °C ... 105 °C (cable, fixed installation)
	-5 °C ... 105 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)

Standards and regulations

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

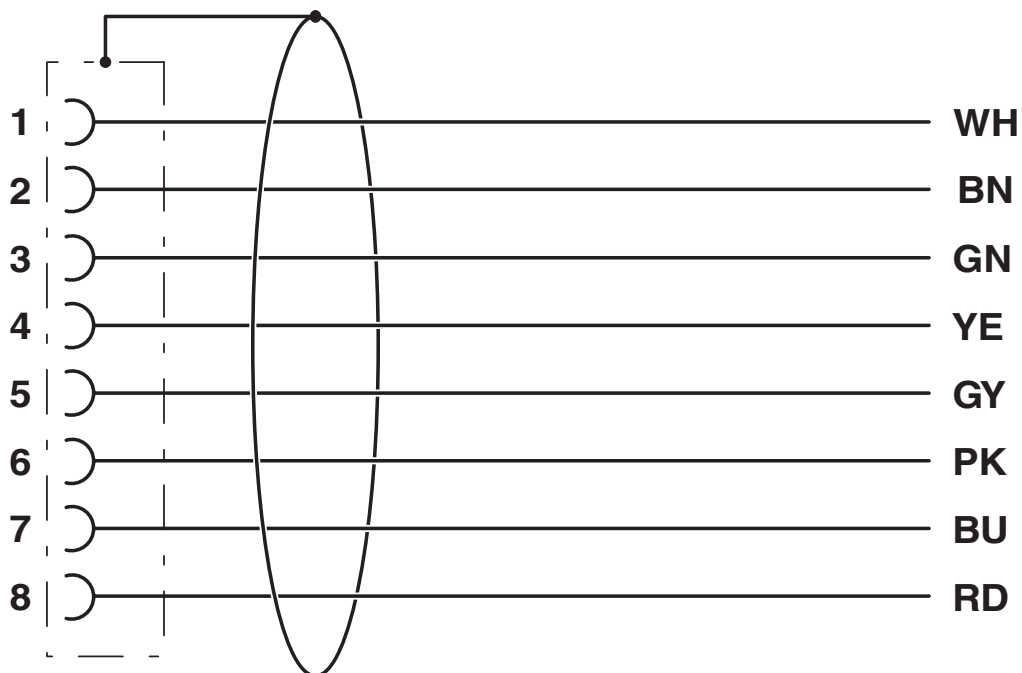
SAC-8P- 5,0-542/M12FR SH BK - Sensor/actuator cable

1406086

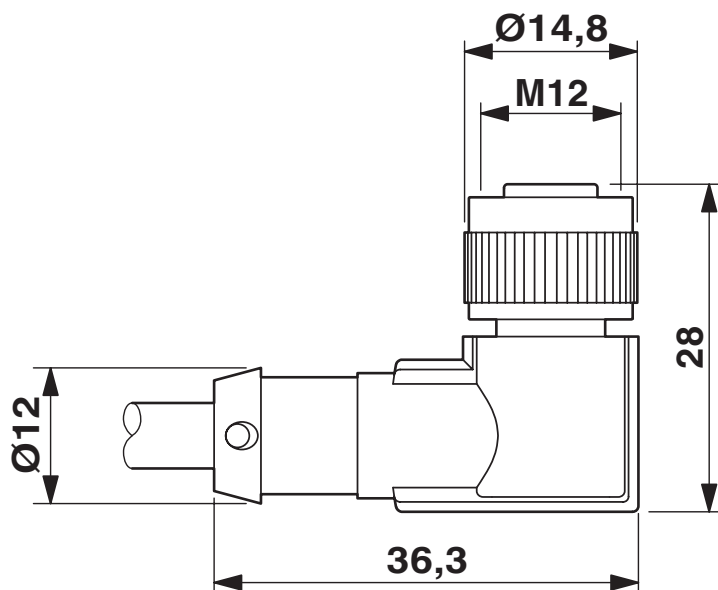
<https://www.phoenixcontact.com/au/products/1406086>

Drawings

Circuit diagram



Dimensional drawing



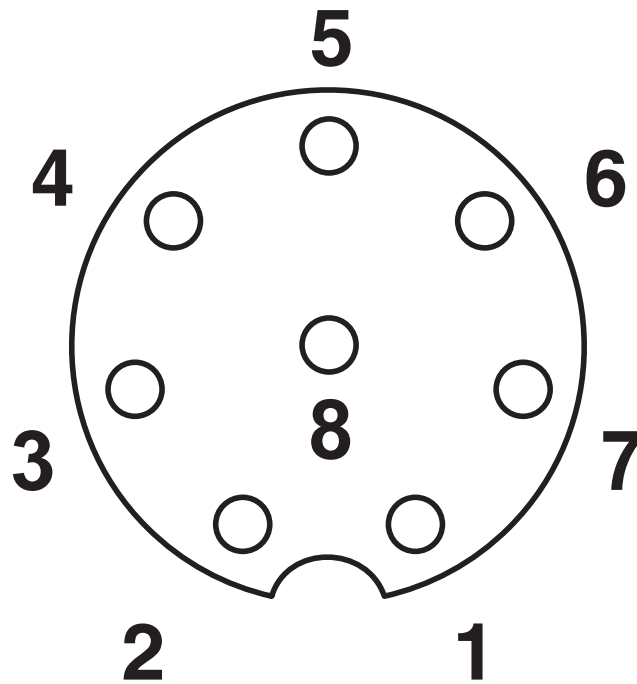
M12 x 1 socket, angled, shielded

SAC-8P- 5,0-542/M12FR SH BK - Sensor/actuator cable

1406086

<https://www.phoenixcontact.com/au/products/1406086>

Schematic diagram



Pin assignment M12 socket, 8-pos., A-coded, view female side

SAC-8P- 5,0-542/M12FR SH BK - Sensor/actuator cable



1406086

<https://www.phoenixcontact.com/au/products/1406086>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/au/products/1406086>



UL Listed

Approval ID: FILE E 221474

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	30 V	2 A	-	-



cUL Listed

Approval ID: FILE E 221474

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	30 V	2 A	-	-

cULus Listed

SAC-8P- 5,0-542/M12FR SH BK - Sensor/actuator cable



1406086

<https://www.phoenixcontact.com/au/products/1406086>

Classifications

ECLASS

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

ETIM

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

UNSPSC

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

SAC-8P- 5,0-542/M12FR SH BK - Sensor/actuator cable



1406086
<https://www.phoenixcontact.com/au/products/1406086>

Environmental product compliance

China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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

PHOENIX CONTACT PTY Ltd
Unit 7, 2-8 South Street
Rydalmere NSW 2116
1300 786 411
customerservice@phoenixcontact.com.au