

SAC-8P-M12MS/15,0-680 FDP - Sensor/actuator cable



1095819

<https://www.phoenixcontact.com/us/products/1095819>

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, shielded, Plug straight M12, coding: A, on free cable end, cable length: 15 m, Foil shielding plus drain wire

Commercial data

Item number	1095819
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	BF13
Product key	BF1IED
GTIN	4055626927701
Weight per piece (including packing)	22.22 g
Weight per piece (excluding packing)	22.22 g
Country of origin	US

1095819

<https://www.phoenixcontact.com/us/products/1095819>

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
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

Electrical properties

Contact resistance	$\leq 5 \text{ m}\Omega$
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)
-------------------	------------------------

Connector

SAC-8P-M12MS/15,0-680 FDP - Sensor/actuator cable



1095819

<https://www.phoenixcontact.com/us/products/1095819>

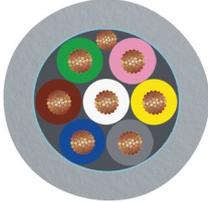
Connection 1

Type	Plug straight M12
Coding type	A

Connection 2

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

Cable/line

Cable length	15 m
Dimensional drawing	
Cable weight	40.55 kg/km
UL AWM Style	2517 (105 °C / 300 V)
Number of positions	7
Shielded	yes
AWG signal line	24
Wire diameter incl. insulation	1.12 mm ±0.03 mm
External cable diameter	5.11 mm ±0.2 mm
Outer sheath, material	PVC
External sheath, color	gray
Conductor material	Tin-plated Cu litz wires
Material wire insulation	PVC (Signal line)
Single wire, color	white, brown, green, yellow, gray, pink, blue
Type of pair shielding	Plastic-coated aluminum foil, aluminum side inside
Overall twist	Conductors, fillers, and drain wire are twisted with left-hand lay
Max. conductor resistance	max. 80.2 Ω/km (20 °C)
Insulation resistance	≥ (550 M Ohms/m @ 500V)
Nominal voltage, cable	300 V
Minimum bending radius, flexible installation	8 x D
Flame resistance	FT4
Other resistance	UV resistant
Ambient temperature (operation)	-30 °C ... 105 °C (cable, fixed installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67

SAC-8P-M12MS/15,0-680 FDP - Sensor/actuator cable



1095819

<https://www.phoenixcontact.com/us/products/1095819>

	IP68
Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)
	-40 °C ... 80 °C (cable, fixed installation)
	-5 °C ... 80 °C (Cable, flexible installation)

Standards and regulations

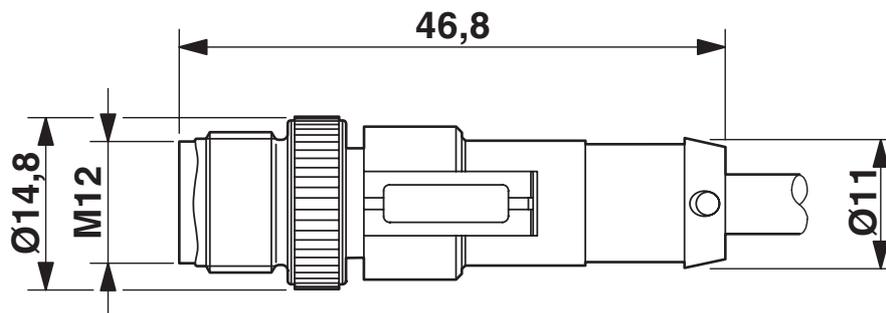
Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101

1095819

<https://www.phoenixcontact.com/us/products/1095819>

Drawings

Dimensional drawing



Plug, M12 x 1, straight

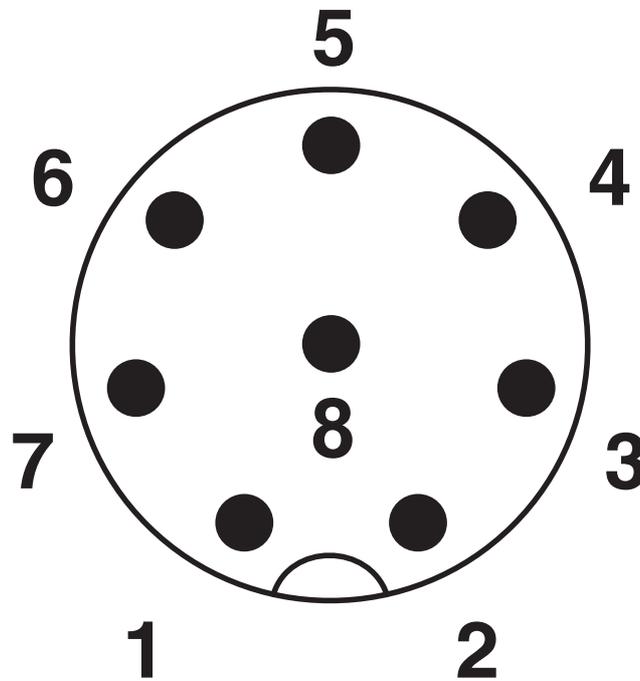
Circuit diagram



1095819

<https://www.phoenixcontact.com/us/products/1095819>

Schematic diagram



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

SAC-8P-M12MS/15,0-680 FDP - Sensor/actuator cable



1095819

<https://www.phoenixcontact.com/us/products/1095819>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1095819>

 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				
---------------------	--	--	--	--

1095819

<https://www.phoenixcontact.com/us/products/1095819>

Classifications

ECLASS

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

UNSPSC

UNSPSC 21.0	31251501
-------------	----------

SAC-8P-M12MS/15,0-680 FDP - Sensor/actuator cable



1095819

<https://www.phoenixcontact.com/us/products/1095819>

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 2023 © - 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