

SAC-8P-MS/1,5-570/FS SH COIL - Sensor/actuator cable

1698991
<https://www.phoenixcontact.com/us/products/1698991>

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Sensor/actuator cable, 8-position, PUR, black, shielded, Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 1.5 m, spiraled

Commercial data

Item number	1698991
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF18
Product key	AF1ICA
GTIN	4067923264915
Weight per piece (including packing)	760 g
Weight per piece (excluding packing)	760 g
Country of origin	US

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Technical data

Notes

Trade restriction

CE note	The products are offered exclusively for export outside the EU and the European Economic Area.
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Product properties

Product type	Sensor/actuator cable
Application	Standard, U.S. cables
Number of positions	8
No. of cable outlets	1
Special properties	Coil cords are rated to 100,000 cycles when extended no greater than three times the retracted length and not subject to any adverse or abusive conditions.
Shielded	yes
Coding	A

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	PUR

Electrical properties

Insulation resistance	$\geq 10 \text{ M}\Omega$
Nominal voltage U_N	30 V AC
	30 V DC
Nominal current I_N	0.8 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
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Signaling

Status display	no
Status display present	no

Connection data

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Conductor connection

Tightening torque	0.4 Nm (M12 connector)
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Connector

Connection 1

Type	Plug straight M12
Number of positions	8
Coding type	A

Connection 2

Type	Socket straight M12
Number of positions	8
Coding type	A

Cable/line

Cable length	1.5 m
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PUR black [570]

Dimensional drawing	
Cable weight	53.5 kg/km
Number of positions	8
Shielded	yes
Cable type	PUR black [570]
Conductor structure signal line	28x 0.10 mm
AWG signal line	24
Wire diameter incl. insulation	0.61 mm
External cable diameter	5.70 mm ±0.2 mm
Outer sheath, material	PUR
External sheath, color	black
Conductor material	Tin-plated Cu litz wires
Material, filler	Cotton
Material wire insulation	PVC
Single wire, color	white, brown, green, yellow, gray, pink, blue, red
Overall twist	8 wires, twisted
Max. conductor resistance	max. 100.4 Ω/km (20 °C)
Nominal voltage, cable	300 V
Minimum bending radius, flexible installation	8 x D

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Smallest bending radius, movable installation	46 mm
Ambient temperature (operation)	-15 °C ... 105 °C (cable, fixed installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67
Ambient temperature (operation) (male connector/female connector)	-25 °C ... 90 °C (Plug / socket)
Ambient temperature (operation) (Cable, fixed installation)	-15 °C ... 105 °C (cable, fixed installation)

Standards and regulations

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

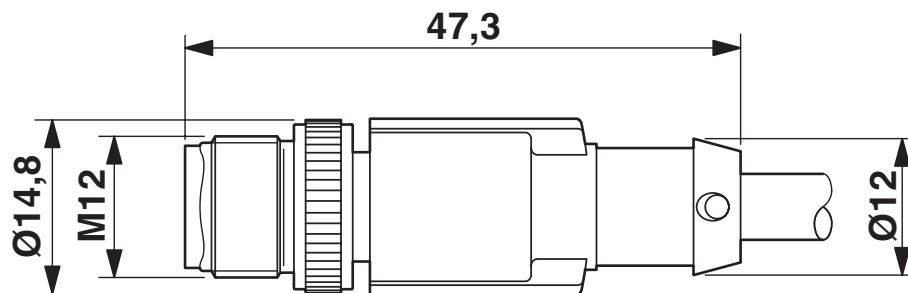
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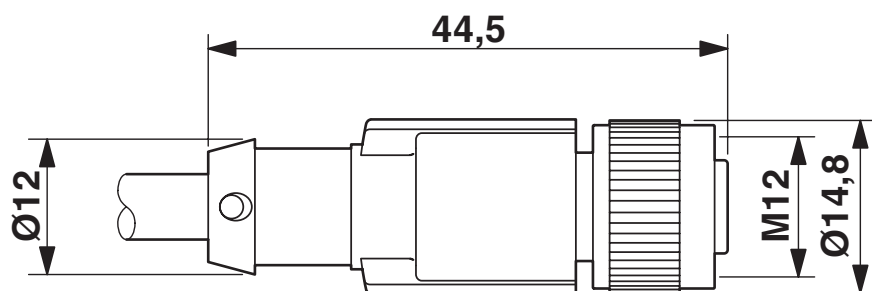
Drawings

Dimensional drawing



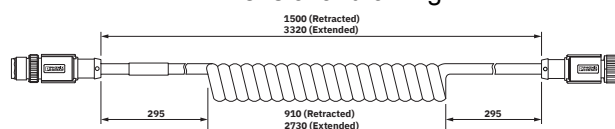
Plug, M12 x 1, straight, shielded

Dimensional drawing



M12 x 1 socket, straight, shielded

Dimensional drawing

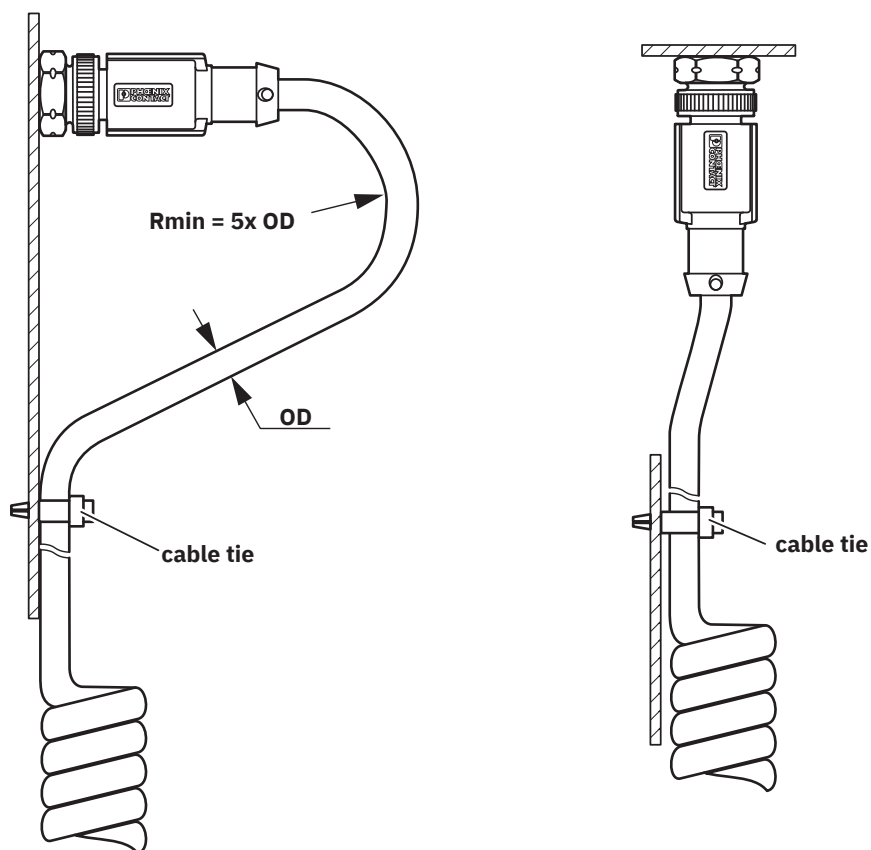


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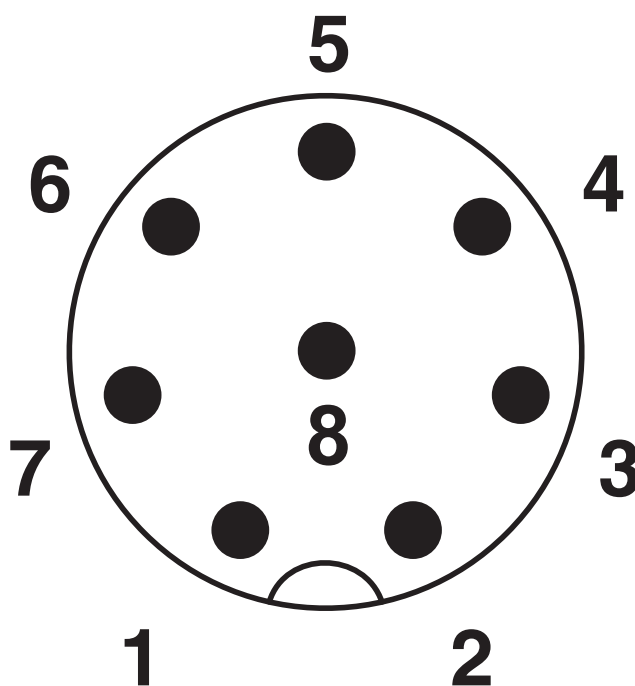
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Application drawing



Schematic diagram



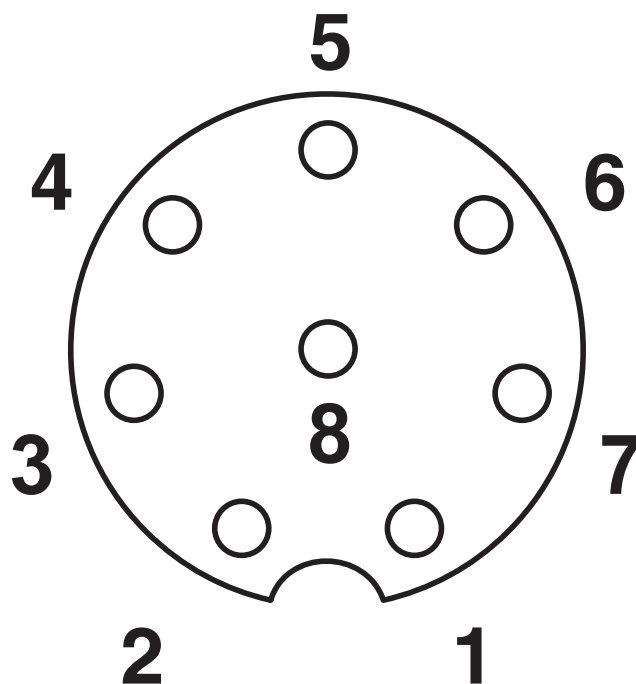
Pin assignment M12 plug, 8-pos., A-coded, view plug side

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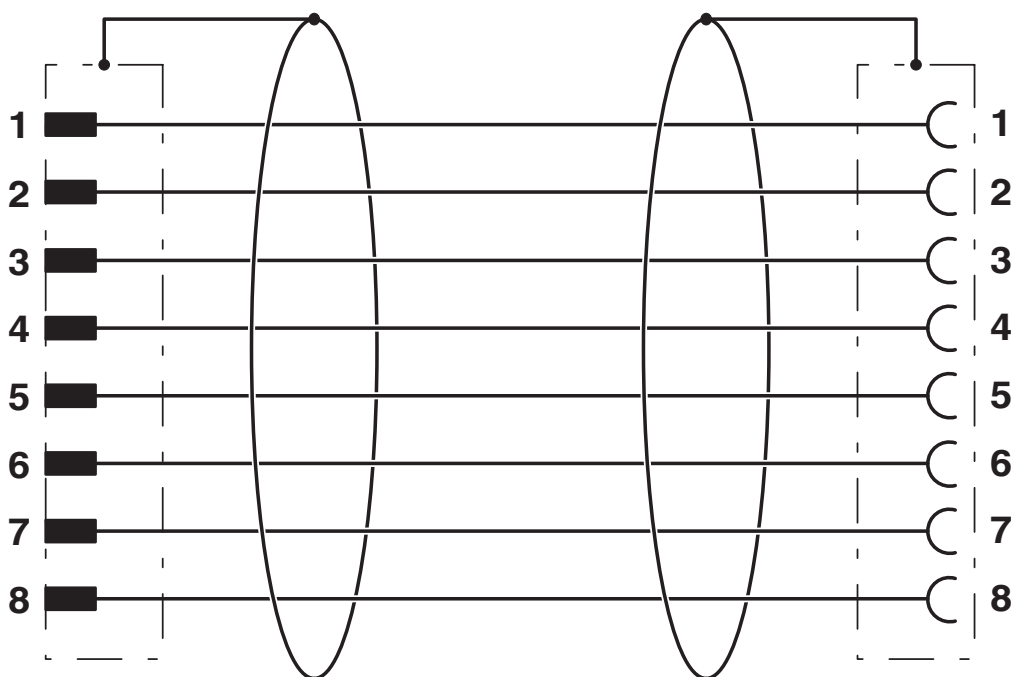
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Schematic diagram



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

Circuit diagram



Contact assignment of M8 plugs / M12 sockets

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Classifications

ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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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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