

SAC-8P-M 8MR/ 1,5-PUR - Sensor/actuator cable



1404182

<https://www.phoenixcontact.com/us/products/1404182>

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Sensor/actuator cable, 8-position, PUR halogen-free, black-gray RAL 7021, Plug angled M8, coding: A, on free cable end, coding: A, cable length: 1.5 m

Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Save space – with high-pos. connectors

Commercial data

Item number	1404182
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF01
Product key	AF1BGA
GTIN	4046356680950
Weight per piece (including packing)	55.8 g
Weight per piece (excluding packing)	53 g
Customs tariff number	85444290
Country of origin	PL

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Technical data

Product properties

Product type	Sensor/actuator cable
Application	Standard
Number of positions	8
No. of cable outlets	1
Shielded	no
Coding	A

Insulation characteristics

Degree of pollution	3
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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	30 V AC
	30 V DC
Nominal current I_N	1.5 A

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
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Signaling

Status display	no
Status display present	no

Connection data

Conductor connection

Tightening torque	0.2 Nm (M8 connectors)
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Connector

Connection 1

Type	Plug angled M8
Number of positions	8

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Coding type	A
Connection 2	
Type	free cable end
Coding type	A

Cable/line

Cable length	1.5 m
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PUR halogen-free black [PUR]

Dimensional drawing		
Cable weight	31.4 kg/km	
UL AWM Style	20549	
Number of positions	8	
Shielded	no	
Cable type	PUR halogen-free black [PUR]	
Conductor structure signal line	18x 0.10 mm	
AWG signal line	26	
Conductor cross-section	8x 0.14 mm ² (Signal line)	
Wire diameter incl. insulation	1 mm ±0.02 mm (Signal line)	
External cable diameter	5.10 mm ±0.15 mm	
Outer sheath, material	PUR	
External sheath, color	black-gray RAL 7021	
Conductor material	Bare Cu litz wires	
Material, filler	PE	
Material wire insulation	PP	
Single wire, color	white, brown, green, yellow, gray, pink, blue, red	
Thickness, insulation	≥ 0.21 mm (Signal line)	
	≥ 0.38 mm (Outer cable sheath)	
Overall twist	8 wires around filler to the core	
Length of twist, overall twist	58 mm	
Max. conductor resistance	139 Ω/km (at 20 °C)	
Insulation resistance	1 GΩ*km (at 20 °C)	
Nominal voltage, cable	≤ 300 V AC	
Test voltage	≥ 3000 V AC (Spark test)	
Minimum bending radius, fixed installation	5 x D	
Minimum bending radius, flexible installation	10 x D	
Smallest bending radius, fixed installation	25.5 mm	

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Smallest bending radius, movable installation	51 mm
Dynamic load capacity (bending)	Max. bending cycles: 10000000, Bending radius: 51 mm, Traversing path: 10 m, Traversing rate: 3 m/s, Acceleration: 10 m/s ²
Halogen-free	in accordance with DIN VDE 0472 part 815 in accordance with DIN EN 50267-2-1
Flame resistance	according to UL 758/1581 (horizontal) in accordance with UL 758/1581 FT2
Resistance to oil	According to DIN EN 60811-2-1, 168 h at 100°C
Other resistance	hydrolysis and microbe resistant Resistant to salt water Low adhesion abrasion-resistant partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)
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 ... 85 °C (Plug / socket)

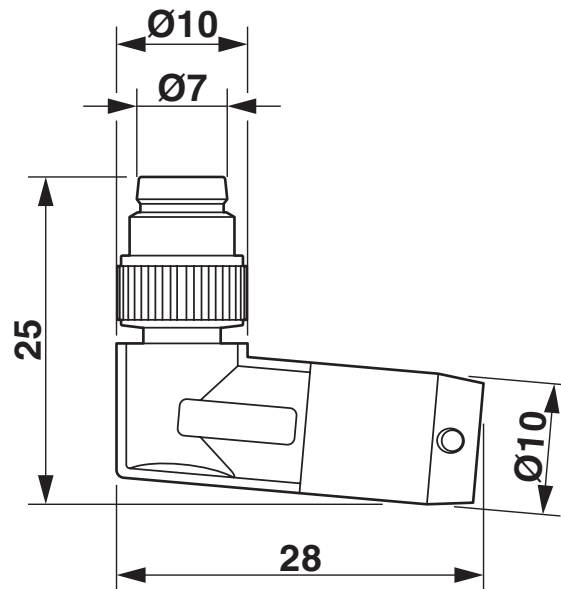
Standards and regulations

M8

Standard designation	M8 connector
Standards/specifications	IEC 61076-2-104

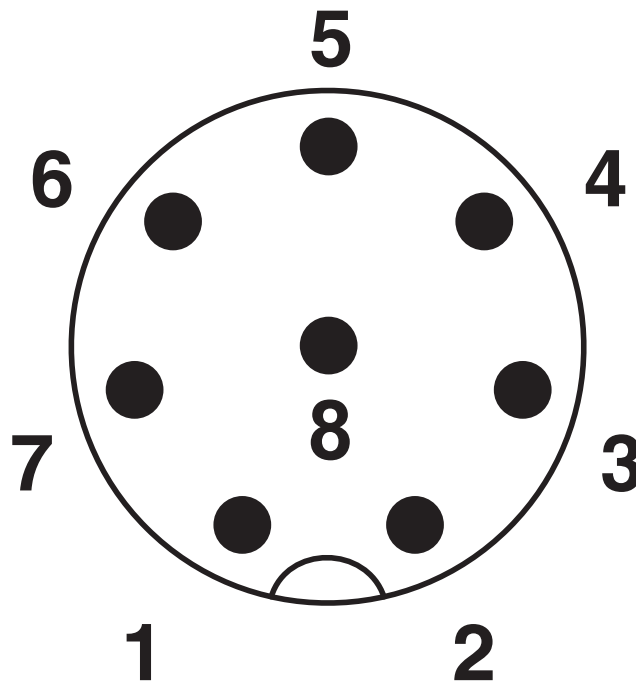
Drawings

Dimensional drawing



M8 x 1 male plug, angled version

Schematic diagram



M8 plug pin assignment, 8-pos., view of pin side

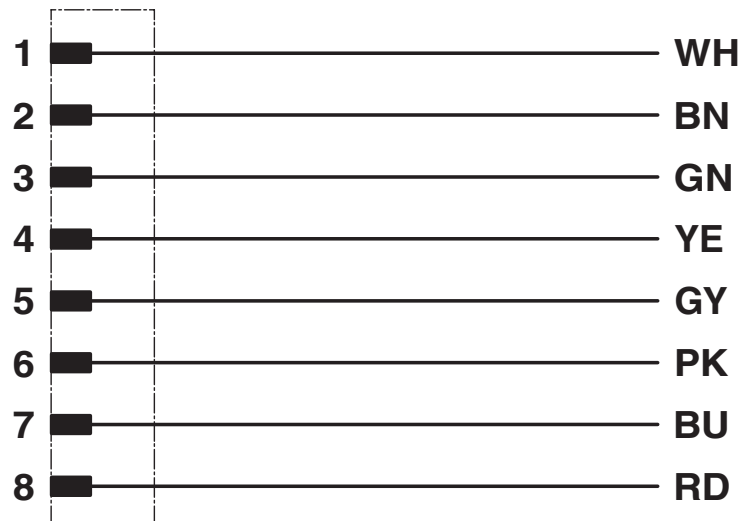
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Circuit diagram



Contact assignment of the M8 plug

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Approvals

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UL Listed

Approval ID: FILE E 221474

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	30 V	1.5 A	-	-



cUL Listed

Approval ID: FILE E 221474

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
keine				
	30 V	1.5 A	-	-



EAC-RoHS

Approval ID: RU D-DE.HB35.B.00387

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Classifications

ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

ETIM

ETIM 10.0	EC001855
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UNSPSC

UNSPSC 21.0	26121600
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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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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com