

1404189

https://www.phoenixcontact.com/us/products/1404189

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, PUR halogen-free, black-gray RAL 7021, free cable end, on Socket straight M8, coding: A, cable length: 5 m

Your advantages

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

Commercial data

Item number	1404189
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF01
Product key	AF1BGA
GTIN	4046356681117
Weight per piece (including packing)	163.6 g
Weight per piece (excluding packing)	157.3 g
Customs tariff number	85444290
Country of origin	PL



1404189

https://www.phoenixcontact.com/us/products/1404189

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	
Overvoltage category	III
Degree of pollution	3

Material specifications

Flammability rating according to UL 94	НВ
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	≥ 100 MΩ
Nominal voltage U _N	30 V AC
	30 V DC
Nominal current I _N	1.5 A

Mechanical properties

ta

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

Signaling

Status display	no
Status display present	no

Connection data

Conductor connection

Tightening torque	0.2 Nm (M8 connectors)

Connector

Connection 1

Туре	free cable end



1404189

https://www.phoenixcontact.com/us/products/1404189

Connection 2

Туре	Socket straight M8
Number of positions	8
Coding type	A

Cable/line

Cable length 5 m

PUR halogen-free black [PUR]

Dimensional drawing



Cable weight	31.4 kg/km
JL AWM Style	20549
umber of positions	8
hielded	no
Cable type	PUR halogen-free black [PUR]
conductor structure signal line	18x 0.10 mm
WG signal line	26
onductor cross section	8x 0.14 mm² (Signal line)
Vire 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
laterial, filler	PE
laterial wire insulation	PP
ingle wire, color	white, brown, green, yellow, gray, pink, blue, red
hickness, insulation	≥ 0.21 mm (Signal line)
	≥ 0.38 mm (Outer cable sheath)
overall twist	8 wires around filler to the core
ength of twist, overall twist	58 mm
lax. conductor resistance	139 Ω/km (at 20 °C)
sulation resistance	1 GΩ*km (at 20 °C)
ominal voltage, cable	≤ 300 V AC
est voltage	≥ 3000 V AC (Spark test)
inimum bending radius, fixed installation	5 x D
linimum bending radius, flexible installation	10 x D
Smallest bending radius, fixed installation	25.5 mm



1404189

https://www.phoenixcontact.com/us/products/1404189

Smallest bending radius, movable installation	51 mm
Dynamic load capacity (bending)	Max. bending cycles: 4000000, 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

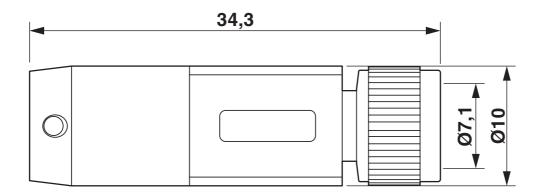


1404189

https://www.phoenixcontact.com/us/products/1404189

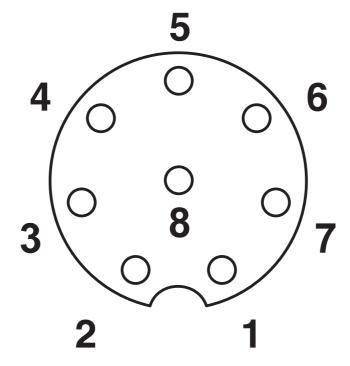
Drawings

Dimensional drawing



Socket M8 x 1, straight

Schematic diagram



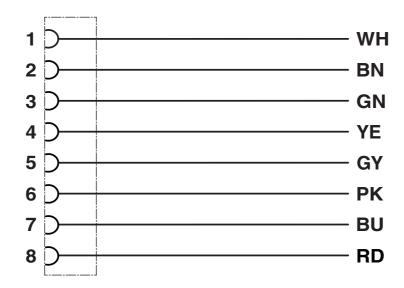
Connector pin assignment of M8 socket, 8-pos., view of socket side



1404189

https://www.phoenixcontact.com/us/products/1404189

Circuit diagram



Contact assignment of M8 socket



1404189

https://www.phoenixcontact.com/us/products/1404189

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1404189

<u> </u>	UL Listed Approval ID: FILE E 221474				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		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
		30 V	1.5 A	-	-

EAC	EAC-RoHS
LIIL	Approval ID: RU D-DE.HB35.B.00387



1404189

https://www.phoenixcontact.com/us/products/1404189

Classifications

	ECLASS-13.0	27060311	
Εī	ГІМ		
	ETIM 9.0	EC001855	
UNSPSC			
	UNSPSC 21.0	26121600	



1404189

https://www.phoenixcontact.com/us/products/1404189

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%
EF3.0 Climate Change	
CO2e kg	2.35 kg CO2e

Phoenix Contact 2025 @ - 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