

1423237

https://www.phoenixcontact.com/gb/products/1423237

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, 3-position, PUR halogen-free, black-gray RAL 7021, Socket straight M12, coding: A, on Plug straight M8, coding: A and Plug straight M8, coding: A, cable length: 0.3 m

Commercial data

Item number	1423237
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	AF1COA
Product key	AF1COA
GTIN	4055626327938
Weight per piece (including packing)	37.6 g
Weight per piece (excluding packing)	36.7 g
Customs tariff number	85444290
Country of origin	PL



1423237

https://www.phoenixcontact.com/gb/products/1423237

Technical data

Product properties

Product type	Distributor with cable
Application	Standard
Number of positions	3
No. of cable outlets	2
Shielded	no
Coding	A
Insulation characteristics	
Overvoltage category	II II
Degree of pollution	3

Connection data

Material specifications

Flammability rating according to UL 94	НВ
Seal material	NBR
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
Outer sheath, material	PUR
Conductor material	Bare Cu litz wires

Electrical properties

Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	48 V AC
	60 V DC
Nominal current I _N	4 A
Max. conductor resistance	77.6 Ω/m

Mechanical properties

Mechanical data

Max. bending cycles	4000000

Signaling

Status display	no
Otatus dispilay	IIO .
Status display present	no

Connector



1423237

https://www.phoenixcontact.com/gb/products/1423237

Connection 1

Туре	Socket straight M12
Number of positions	4
Coding type	A

Connection 2

Туре	Plug straight M8
Number of positions	3
Coding type	A

Connection 3

Туре	Plug straight M8
Number of positions	3
Coding type	A

Cable/line

PUR halogen-free black [PUR]

Dimensional drawing



Cable weight	23 kg/km
UL AWM Style	20549
Number of positions	3
Shielded	no
Cable type	PUR halogen-free black [PUR]
Conductor structure signal line	42x 0.10 mm
AWG signal line	22
Conductor cross section	3x 0.34 mm² (Signal line)
Wire diameter incl. insulation	1.27 mm ±0.02 mm (Signal line)
External cable diameter	3.85 mm ±0.15 mm
Outer sheath, material	PUR
External sheath, color	black-gray RAL 7021
Conductor material	Bare Cu litz wires
Material wire insulation	PP
Single wire, color	brown, blue, black
Thickness, insulation	≥ 0.21 mm (Core insulation)
	approx. 0.50 mm (Outer cable sheath)
Overall twist	3 wires, twisted



1423237

https://www.phoenixcontact.com/gb/products/1423237

Max. conductor resistance	max. 58 Ω/km (at 20 °C)
Insulation resistance	≥ 100 GΩ*km (at 20 °C)
Nominal voltage, cable	≤ 300 V
Test voltage	≥ 3000 V
Smallest bending radius, fixed installation	19 mm
Smallest bending radius, movable installation	38 mm
Dynamic load capacity (bending)	Max. bending cycles: 1000000, Bending radius: 38 mm, Bending radius: 10 x D, Traversing path: 10 m, Traversing rate: m/s, Acceleration: 10 m/s²
Dynamic load capacity (torsion)	Torsion: ±180 °/m, Torsion cycles: ≥2000000, Torsional frequency: 35 cycles/min.
Halogen-free	in accordance with DIN VDE 0472 part 815
Flame resistance	in accordance with UL 758/1581 FT2
	DIN EN 60332-2-2 (20 s)
Resistance to oil	in accordance with DIN EN 60811-2-1
Other resistance	Highly resistant to acids, alkaline solutions and solvents
	hydrolysis and microbe resistant
	partly UV-resistant (in accordance with DIN EN ISO 4892-2-A)
Special properties	Flexible cable conduit capable
	Silicone-free
	Free of substances which would hinder coating with paint or varnish
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)
	-25 °C 80 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

gree of protection	IP65
	IP67
	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

M12

Standard designation	M12 connector				
Standards/specifications	IEC 61076-2-101				
M8					
Standard designation	M8 connector				
Standards/specifications	IFC 61076-2-104				

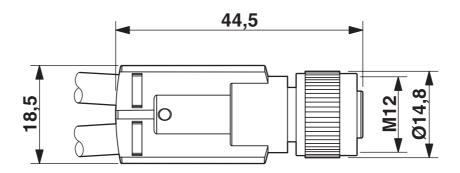


1423237

https://www.phoenixcontact.com/gb/products/1423237

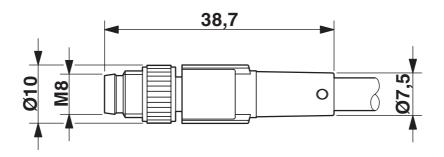
Drawings

Dimensional drawing



Socket M12 x 1, Y distributor

Dimensional drawing



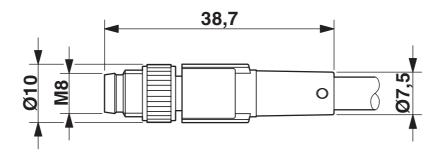
M8 x 1 male plug, straight version



1423237

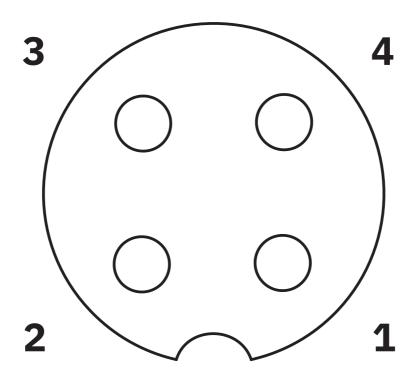
https://www.phoenixcontact.com/gb/products/1423237

Dimensional drawing



M8 x 1 male plug, straight version

Schematic diagram



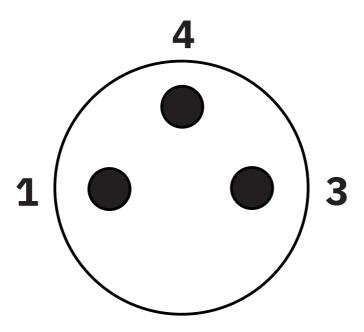
Pin assignment M12 socket, 4-pos., A-coded, view female side



1423237

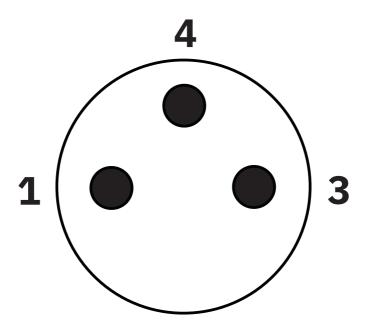
https://www.phoenixcontact.com/gb/products/1423237

Schematic diagram



Pin assignment M8 plug, 3-pos., view male side

Schematic diagram

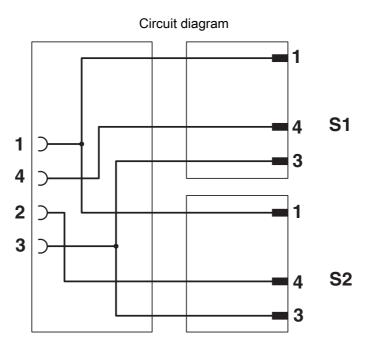


Pin assignment M8 plug, 3-pos., view male side



1423237

https://www.phoenixcontact.com/gb/products/1423237



Contact assignment of the M12 socket and the M8 connector



1423237

https://www.phoenixcontact.com/gb/products/1423237

Classifications

ECLASS

	ECLASS-12.0	27060313			
	ECLASS-13.0	27060313			
ETIM					
	ETIM 9.0	EC001855			
UNSPSC					
	UNSPSC 21.0	26121600			



1423237

https://www.phoenixcontact.com/gb/products/1423237

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%			

Phoenix Contact 2025 @ - all rights reserved https://www.phoenixcontact.com

PHOENIX CONTACT Ltd Halesfield 13, Telford Shropshire, TF7 4PG 01952 681700 info@phoenixcontact.co.uk