

1406256

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Sensor/actuator cable, 3-position, PVC, yellow, shielded (Tinned copper braided shield), Plug straight M12, coding: A, on free cable end, cable length: 5 m

Commercial data

Item number	1406256
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF13
Product key	BF1IDA
GTIN	4046356797962
Weight per piece (including packing)	231.6 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85444290
Country of origin	US



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Technical data

Product properties

Product type	Sensor/actuator cable
Number of positions	3
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	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
Outer sheath, material	PVC

Electrical properties

Contact resistance	≤ 5 mΩ
Insulation resistance	≥ 100 MΩ
Nominal voltage U _N	48 V AC
	60 V DC
Nominal current I _N	4 A
Protective circuit	unwired

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	0.4 Nm (M12 connector)
3 ** 3 ** 1 **	()



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Connector

Connection 1

Туре	Plug straight M12
Coding type	A

Connection 2

Type	free cable end

Cable/line

Cable length	5 m
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PVC yellow 105 °C [542]

Dimensional drawing



Cable weight 40 kg/km UL AWM Style 2517 (105 °C / 300 V) Number of positions 3 Shielded yes Cable type PVC yellow 105 °C [542] Conductor structure signal line 30x 1.30 mm AWG signal line 22 Wire diameter incl. insulation 1.27 mm ±0.03 mm External cable diameter 5.20 mm ±0.2 mm Outer sheath, material PVC External sheath, color yellow Conductor material Tin-plated Cu litz wires Material wire insulation PVC Single wire, color brown, blue, black Overall twist 3 wires, twisted Optical shield covering 85 % Max. conductor resistance max. 50.5 Ω/km (20 °C) Insulation resistance ≥ (550 M Ohms/m @ 500V) Nominal voltage, cable 300 V Minimum bending radius, flexible installation 12 x D Smallest bending radius, movable installation 63 mm Flame resistance FT4 Other resistance UV resistant		
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Minimum bending radius, flexible installation 12 x D Smallest bending radius, movable installation 63 mm Flame resistance FT4	Insulation resistance	≥ (550 M Ohms/m @ 500V)
Smallest bending radius, movable installation 63 mm Flame resistance FT4	Nominal voltage, cable	300 V
Flame resistance FT4	Minimum bending radius, flexible installation	12 x D
	Smallest bending radius, movable installation	63 mm
Other resistance UV resistant	Flame resistance	FT4
	Other resistance	UV resistant



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Special properties	UL standards PLTC and ITC
Ambient temperature (operation)	-30 °C 105 °C (cable, fixed installation)
	-5 °C 105 °C (Cable, flexible installation)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
	IP67
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

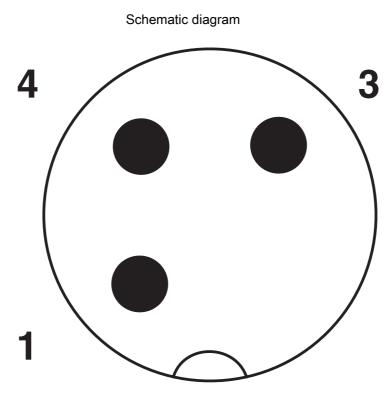
Standard designation	M12 connector
Standards/specifications	IEC 61076-2-101



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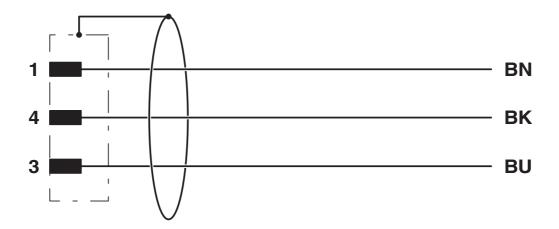
https://www.phoenixcontact.com/us/products/1406256

Drawings



Pin assignment M12 plug, 3-pos., A-coded, view male side

Circuit diagram

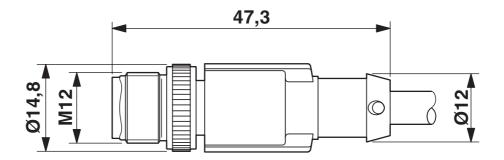




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Dimensional drawing



Plug, M12 x 1, straight, shielded



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1406256

<u> </u>	UL Listed Approval ID: FILE E 221474				
		Nominal voltage U _N	Nominal current I _N	Cross section AWG	Cross section mm ²
		300 V	4 A	-	-

• <u>®</u>	cUL Listed Approval ID: FILE E 22147	4			
		Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²
		300 V	4 A	-	-

cULus Listed



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Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27060311	
ECLASS-12.0	27060311	
ECLASS-13.0	27060311	
ETIM		
ETIM 9.0	EC001855	
UNSPSC		

26121600



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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"	

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