

1406042

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Sensor/actuator cable, 3-position, PVC, yellow, shielded, Plug straight M8, on Socket straight M8, cable length: 1.5 m

### Commercial data

Item number	1406042
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF13
Product key	AF1IBA
GTIN	4046356800006
Weight per piece (including packing)	22.22 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	
Application	Standard, U.S. cables	
Number of positions	3	
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
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	PVC

### Electrical properties

Insulation resistance	≥ 100 MΩ
Nominal voltage U <sub>N</sub>	48 V AC
	60 V DC
Nominal current I <sub>N</sub>	4 A

### Mechanical properties

Mechan	ical data	
Insert	tion/withdrawal cycles	≥ 100
Signaling	3	
Statu	s display	no

no

## Connection data

Status display present

Conductor connection	
Tightening torque	0.2 Nm (M8 connectors)

#### Connector



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#### Connection 1

Туре	Plug straight M8
Number of positions	3

#### Connection 2

Туре	Socket straight M8
Number of positions	3

### Cable/line

Cable length 1.5 m	
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### PVC yellow 105 °C [542]

Dimensional drawing



Cable weight	33 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	7x 0.20 mm
AWG signal line	24
Wire diameter incl. insulation	1.12 mm ±0.03 mm
External cable diameter	4.70 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. 79.7 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	57 mm
Flame resistance	FT4
Other resistance	UV resistant
Ambient temperature (operation)	-30 °C 105 °C (cable, fixed installation)



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	-5 °C 105 °C (Cable, flexible 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)
Standards and regulations	
Standard designation	M8 connector
Standards/specifications	IEC 61076-2-104

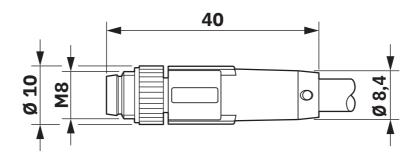


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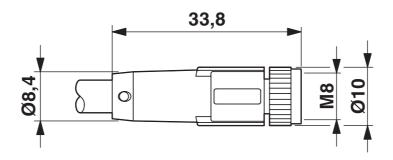
## Drawings

### Dimensional drawing



Plug M8 x 1, straight, shielded

### Dimensional drawing



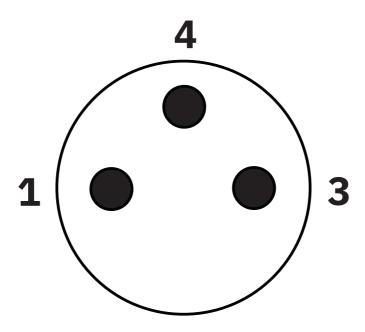
Socket M8 x 1, straight, shielded



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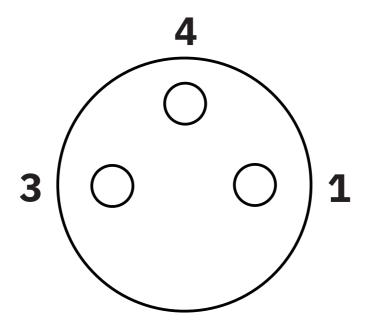
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### Schematic diagram



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

Schematic diagram



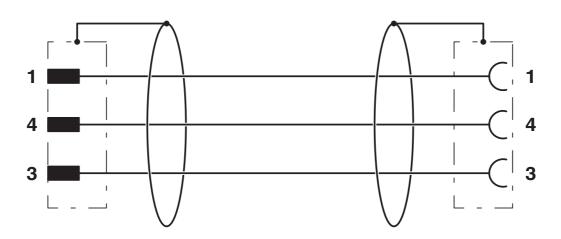
Pin assignment M8 socket, 3-pos., view female side



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## Circuit diagram



Contact assignment of M8 plugs/sockets



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## **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1406042

UL Listed Approval ID: Fi	ILE E 221474			
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
keine				
	60 V	4 A	-	-

cUL Listed Approval ID: FILE E 221	474			
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
keine				
	60 V	4 A	-	-

EAC	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 9.0	EC001855		
UNSPSC				
	UNSPSC 21.0	26121600		

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## Environmental product compliance

#### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c)
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	e44b385d-8715-4234-919c-26e9dee1ff7d
EF3.0 Climate Change	
CO2e kg	0.773 kg CO2e

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