

1417926

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Sensor/actuator cable, 8-position, PVC, yellow, shielded, Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 20 m

#### Commercial data

Item number	1417926
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF13
Product key	AF1IDD
GTIN	4055626211404
Weight per piece (including packing)	1,218.2 g
Weight per piece (excluding packing)	1,218.2 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	8	
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	CuZn
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>	30 V AC
	30 V DC
Nominal current I <sub>N</sub>	2 A

#### Mechanical properties

Mechanical data	
Insertion/withdrawal cycles	≥ 100

#### Signaling

Status display	no
Status display present	no

#### Connection data

Conductor connection	
Tightening torque	0.4 Nm (M12 connector)

#### Connector



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#### Connection 1

Туре	Plug straight M12
Number of positions	8
Coding type	A

#### Connection 2

Туре	Socket straight M12
Number of positions	8
Coding type	A

#### Cable/line

Cable length	20 m

#### PVC yellow 105 °C [542]

Dimensional drawing



Cable weight	58 kg/km
UL AWM Style	2517 (105 °C / 300 V)
Number of positions	8
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	6.30 mm ±0.2 mm
Outer sheath, material	PVC
External sheath, color	yellow
Conductor material	Tin-plated Cu litz wires
Material, filler	PP
Material wire insulation	PVC
Single wire, color	white, brown, green, yellow, gray, pink, blue, red
Overall twist	8 wires around filler to the core
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	76 mm



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Flame resistance	FT1, VW-1
Other resistance	UV resistant
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) (male connector/female connector)	-25 °C 90 °C (Plug / socket)

### Standards and regulations

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

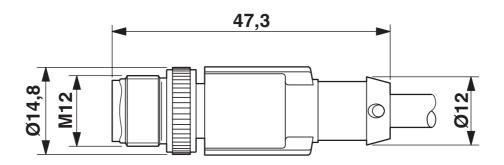


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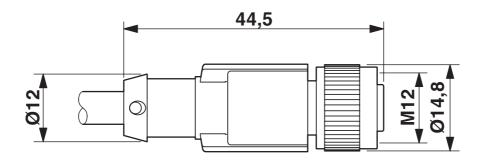
### Drawings

#### Dimensional drawing



Plug, M12 x 1, straight, shielded

#### Dimensional drawing



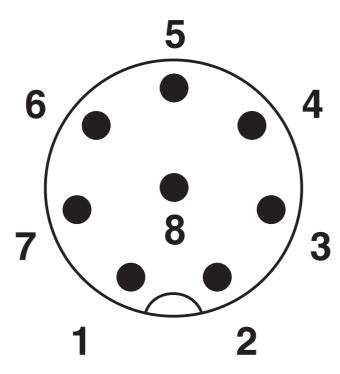
M12 x 1 socket, straight, shielded



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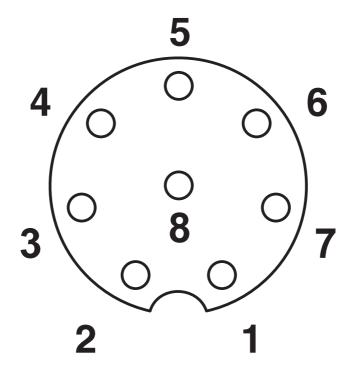
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Schematic diagram



Pin assignment M12 plug, 8-pos., view plug side

Schematic diagram

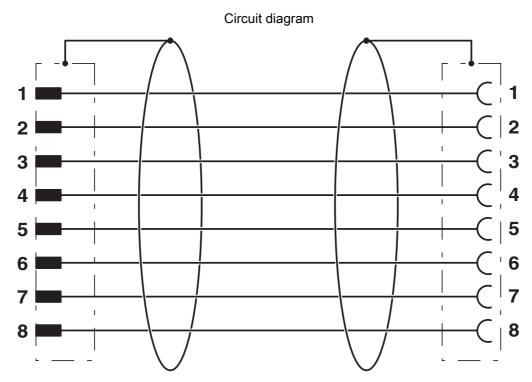


Pin assignment M12 socket, 8-pos., A-coded, view female side



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Contact assignment of the M12 plug and the M12 socket



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### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1417926

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

•	<b>cUL Listed</b> Approval ID: FILE E 22147	74			
		Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		30 V	2 A	-	-



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### Classifications

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	ECLASS-13.0	27060311			
E	ETIM				
	ETIM 9.0	EC001855			
UNSPSC					
	UNSPSC 21.0	26121600			



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### Environmental product compliance

EU F	RoHS
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Fulfills EU RoHS substance requirements	Yes, No exemptions
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.)	No substance above 0.1 wt%
EF3.0 Climate Change	
CO2e kg	14.187 kg CO2e

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