

1406093

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Sensor/actuator cable, 8-position, PVC, yellow, Plug straight M12, coding: A, on free cable end, cable length: 5 m

### Commercial data

Item number	1406093
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF13
Product key	AF1ICD
GTIN	4046356799553
Weight per piece (including packing)	241.2 g
Weight per piece (excluding packing)	235 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	no
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	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 $U_N$	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)
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#### Connector

#### Connection 1



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Туре	Plug straight M12
Coding type	A
Connection 2	
Туре	free cable end
1,100	illoc capie chia
able/line	
Cable length	5 m
PVC yellow 105 °C [542]	
Dimensional drawing	
Cable weight	44 kg/km
UL AWM Style	2517 (105 °C / 300 V)
Number of positions	8
Shielded	no
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	5.70 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
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	8 x D
Smallest bending radius, movable installation	46 mm
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

-5 °C ... 105 °C (Cable, flexible installation)



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#### Ambient conditions

Degree of protection	IP65	
	IP67	
	IP68	
Ambient temperature (operation) (male connector/female connector)	-25 °C 90 °C (Plug / socket)	
Ambient temperature (operation)	-40 °C 80 °C (cable, fixed installation)	
Ambient temperature (operation) (Cable, flexible installation)	-5 °C 80 °C (Cable, flexible installation)	

### Standards and regulations

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

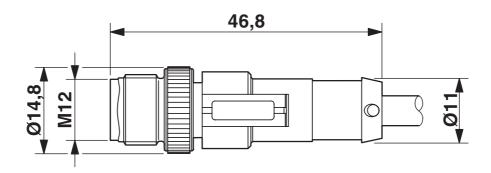


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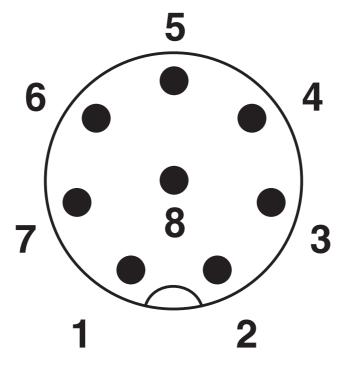
## **Drawings**

### Dimensional drawing



Plug, M12 x 1, straight, shielded

### Schematic diagram



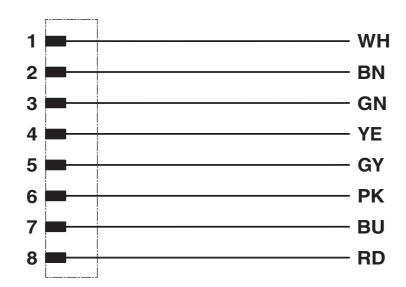
Pin assignment M12 plug, 8-pos., view plug side



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### Circuit diagram



Contact assignment of the M12 plug



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### **Approvals**

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UL Listed Approval ID: FILE E 2214	174			
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
keine				
	30 V	2 A	-	-

cUL Liste Approval ID:	<b>ed</b> : FILE E 221474			
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
keine				
	30 V	2 A	-	-



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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, 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	2.699 kg CO2e

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