

1547342

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Sensor/actuator cable, 2-position, Plug angled 1/2"-20UNF, coding: C, on Socket angled 1/2"-20UNF, coding: C, cable length: Free input (0.2 ... 40.0 m)

Your advantages

- Easy and safe: 100 % electrically tested plug-in components
- Adapted: 1/2"-20UNF connectors with C-coding for the North American market

Commercial data

Item number	1547342
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF17
Product key	AF1EAA
Catalog page	Page 96 (PC-2007)
Customs tariff number	85444290
Country of origin	PL

Technical data

Product properties

Product type	Sensor/actuator cable
Application	Standard
Number of positions	2
No. of cable outlets	1
Shielded	no
Coding	C

Insulation characteristics

Overvoltage category	II
Degree of pollution	3

Material specifications

Flammability rating according to UL 94	HB
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	Brass, nickel-plated

Electrical properties

Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	250 V AC
	250 V DC
Nominal current I_N	4 A
Test voltage	2500 V

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
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Signaling

Status display	no
Status display present	No

Connector

Connection 1

Type	Plug angled 1/2"-20UNF
Number of positions	2
Coding type	C

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1547342

<https://www.phoenixcontact.com/us/products/1547342>

Connection 2

Type	Socket angled 1/2"-20UNF
Number of positions	2
Coding type	C

Cable/line

Cable length	Free input (0.2 ... 40.0 m)
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PVC yellow 105 °C [542]

Cable weight	32 kg/km
UL AWM Style	2517 (105 °C / 300 V)
Number of positions	2
Shielded	no
Cable type	PVC yellow 105 °C [542] PVC yellow 105 °C 542
Conductor structure signal line	42x 0.10 mm
AWG signal line	22
Conductor cross section	2x 0.34 mm²
Wire diameter incl. insulation	1.55 mm ±0.05 mm
External cable diameter	4.90 mm ±0.15 mm
Outer sheath, material	PVC
External sheath, color	yellow
Conductor material	Bare Cu litz wires
Material wire insulation	PVC
Single wire, color	brown, blue
Thickness, insulation	≥ 0.38 mm (Core insulation)
Thickness, outer sheath	≥ 0.76 mm
Overall twist	2 wires, twisted
Max. conductor resistance	58 Ω/m (at 20 °C)
Insulation resistance	≥ 100 MΩ*km (at 20 °C)
Nominal voltage, cable	≤ 300 V
Test voltage	≥ 3000 V
Flame resistance	According to DIN EN 60332-1-2
Ambient temperature (operation)	-25 °C ... 105 °C (Cable) -5 °C ... 105 °C (Cable, flexible installation)

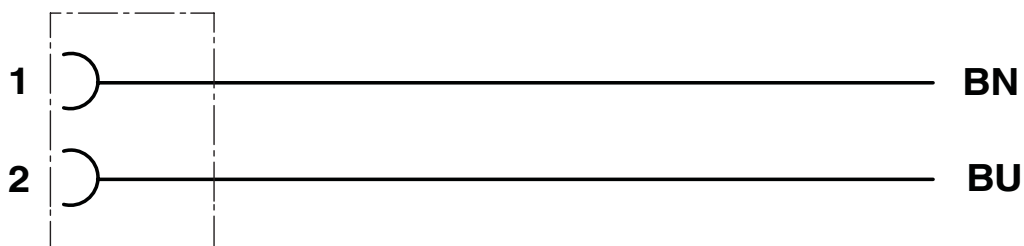
Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65 IP67 IP68
Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)

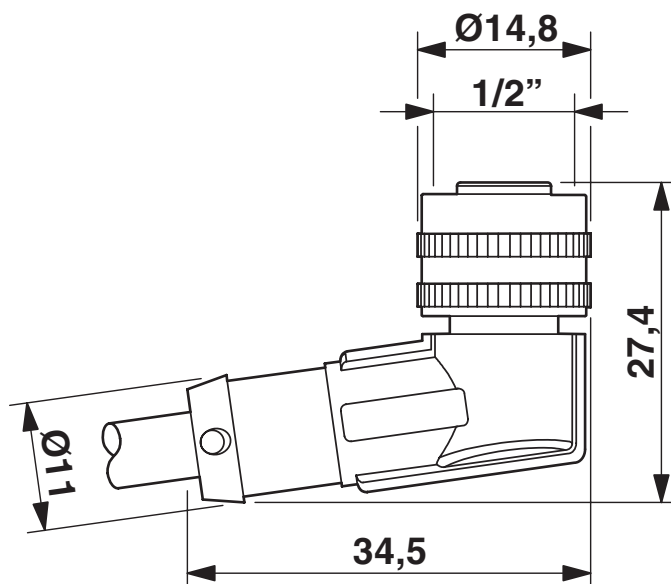
Drawings

Circuit diagram



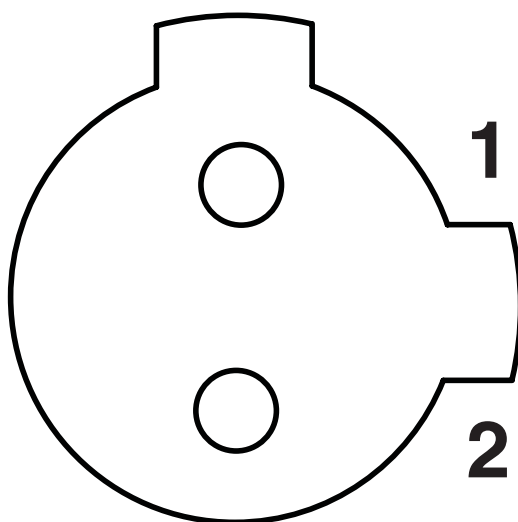
Contact assignment of 1/2" UNF plugs / sockets

Dimensional drawing



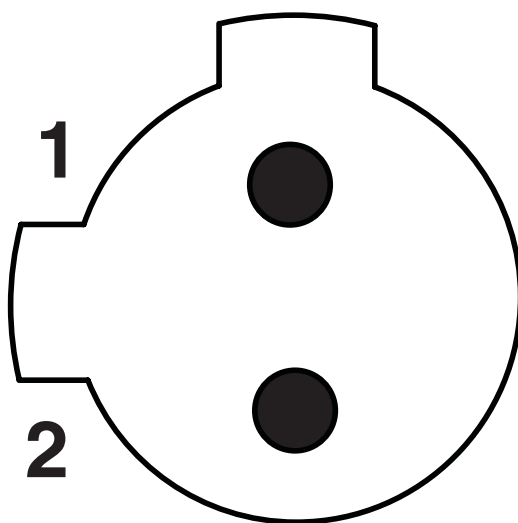
1/2"-20UNF socket, angled

Schematic diagram



Pin assignment 1/2"-20UNF socket, 2-pos., view female side

Schematic diagram



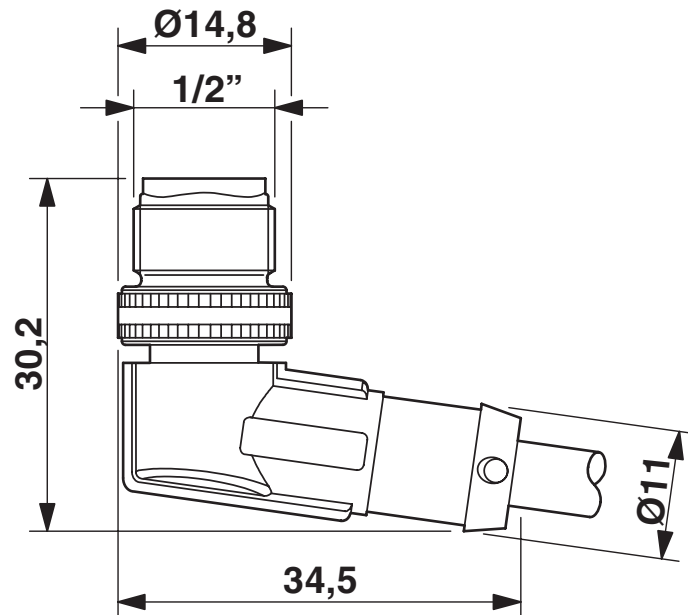
Pin assignment 1/2"-20UNF plug, 2-pos., view male side

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Dimensional drawing



1/2"-20UNF plug, angled

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Classifications

ECLASS

ECLASS-11.0	27060311
ECLASS-12.0	27060311
ECLASS-13.0	27060311

ETIM

ETIM 8.0	EC001855
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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%