

1547481
<https://www.phoenixcontact.com/us/products/1547481>

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Sensor/actuator cable, 6-position, Plug straight 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	1547481
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF17
Product key	AF1EEA
Catalog page	Page 100 (PC-2007)
Weight per piece (including packing)	22.22 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85444290
Country of origin	US

Technical data

Notes

Trade restriction

CE note	The products are offered exclusively for export outside the EU and the European Economic Area.
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Product properties

Product type	Sensor/actuator cable
Application	Standard
Number of positions	6
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	CuZn
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	30 V AC
	30 V DC
Nominal current I_N	2 A
Test voltage	800 V

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 100
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Signaling

Status display	no
Status display present	No

Connector

SAC-6P-MICMS-MICFR/.../... - Sensor/actuator cable



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Connection 1

Type	Plug straight 1/2"-20UNF
Number of positions	6
Coding type	C

Connection 2

Type	Socket angled 1/2"-20UNF
Number of positions	6
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	63 kg/km
Number of positions	6
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	0.34 mm²
Wire diameter incl. insulation	1.55 mm ±0.05 mm
External cable diameter	6.4 mm
Outer sheath, material	PVC
External sheath, color	yellow
Conductor material	Bare Cu litz wires
Material wire insulation	PVC
Single wire, color	red/black, red/white, red, green, red/yellow, red/blue
Thickness, insulation	≥ 0.38 mm (Core insulation) ≥ 0.76 mm (Outer cable sheath)
Overall twist	Six pairs around the filler to the core
Max. conductor resistance	≤ 58 Ω/km
Insulation resistance	≥ 100 MΩ*km
Nominal voltage, cable	300 V
Test voltage	3000 V
Ambient temperature (operation)	-25 °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
	IP68

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Ambient temperature (operation)	-25 °C ... 90 °C (Plug / socket)
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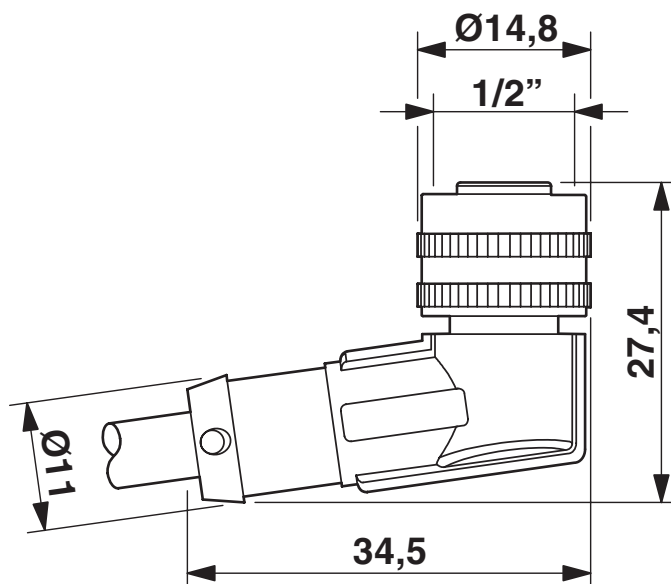
Drawings

Circuit diagram



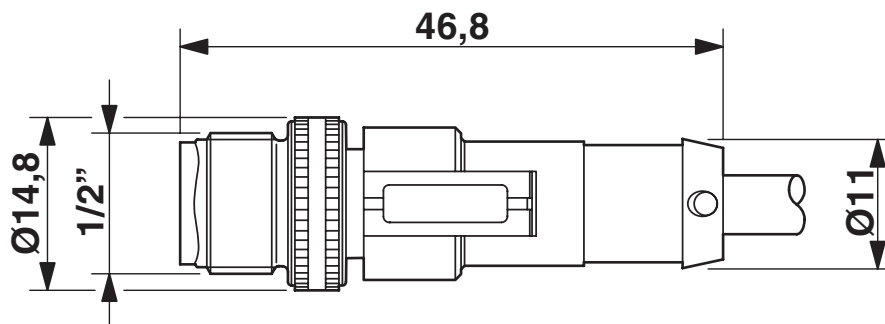
Contact assignment of 1/2" UNF plugs / sockets

Dimensional drawing



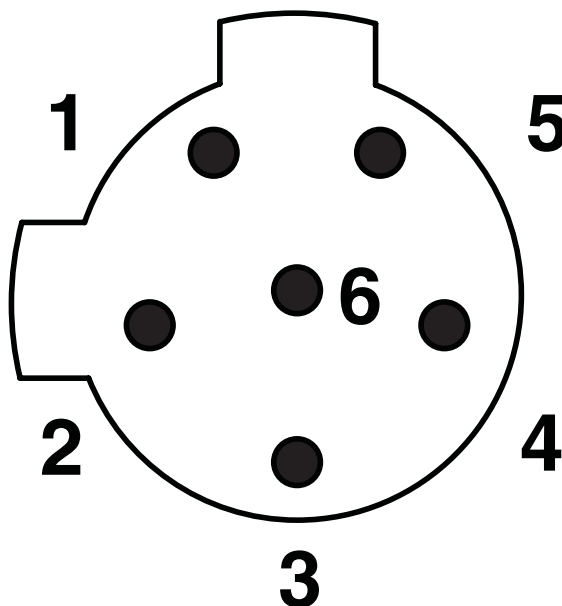
1/2"-20UNF socket, angled

Dimensional drawing



1/2"-20UNF plug, straight

Schematic diagram

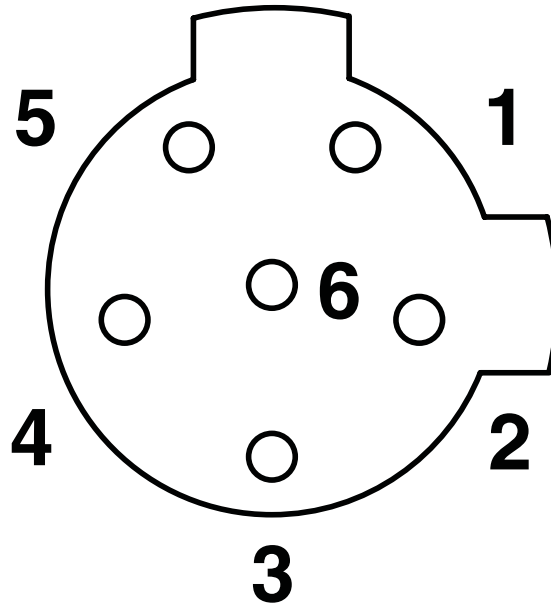


Pin assignment 1/2"-20UNF plug, 6-pos., view male side

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Schematic diagram



Pin assignment 1/2"-20UNF socket, 6-pos., view female side

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Approvals

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UL Listed

Approval ID: FILE E 221474

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	125 V	4 A	-	-



cUL Listed

Approval ID: FILE E 221474

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
	125 V	4 A	-	-



EAC-RoHS

Approval ID: RU D-DE.HB35.B.00387

cULus Listed

SAC-6P-MICMS-MICFR/.../... - Sensor/actuator cable



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Classifications

ECLASS

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

ETIM

ETIM 9.0	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%