

# SAC-6P-MINMS/ 1,0-U20/MINFS - Power cable



1416624

<https://www.phoenixcontact.com/us/products/1416624>

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Power cable, 6-position, PVC, yellow, Plug straight 7/8"-16UNF, on Socket straight 7/8"-16UNF, cable length: 1 m

## Your advantages

- Easy and safe: 100 % electrically tested plug-in components

## Commercial data

Item number	1416624
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF14
Product key	AF11MB
GTIN	4055626223209
Weight per piece (including packing)	22.22 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85444290
Country of origin	MX

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## Technical data

### Product properties

Product type	Sensor/actuator cable
Application	Standard
Number of positions	6
No. of cable outlets	1
Shielded	no
Coding	A

### Material specifications

Flammability rating according to UL 94	V0
Material of grip body	PVC
Contact material	CuZn
Contact surface material	Au
Contact carrier material	PVC
Material for screw connection	Anodized aluminum

### Electrical properties

Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage $U_N$	600 V AC/DC (UL rating)
	50 V AC/DC (IEC rating)
Nominal current $I_N$	8 A

### Mechanical properties

#### Mechanical data

Insertion/withdrawal cycles	100
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### Signaling

Status display	no
Status display present	no

### Connection data

#### Conductor connection

Tightening torque	10 lb <sub>F</sub> -in.
	1.12 Nm

### Connector

#### Connection 1

Type	Plug straight 7/8"-16UNF
Number of positions	6

#### Connection 2

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Type	Socket straight 7/8"-16UNF
Number of positions	6

## Cable/line

Cable length	1 m
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### Yellow, STOOW [U20]

Number of positions	6
Shielded	no
Cable type	Yellow, STOOW [U20]
Conductor structure, voltage supply	65 x AWG 32
Conductor cross-section	6 x AWG 16
External cable diameter	13.70 mm
Outer sheath, material	PVC
External sheath, color	yellow
Conductor material	Bare Cu litz wires
Single wire, color	white 1, red 2, green 3, orange 4, black 5, blue 6
Nominal voltage, cable	600 V
Minimum bending radius, fixed installation	4 x D
Minimum bending radius, flexible installation	12.5 x D
Smallest bending radius, fixed installation	55 mm
Smallest bending radius, movable installation	172 mm
Flame resistance	UL 1581, FT2
Resistance to oil	Premium oil resistance (jacket and conductor)
Other resistance	UV resistant (720 h) (UL 2556)
Ambient temperature (operation)	-40 °C ... 105 °C (cable, fixed installation) -30 °C ... 105 °C (Cable, flexible installation)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP68
Ambient temperature (operation) (male connector/female connector)	-20 °C ... 105 °C (Plug / socket)
Ambient temperature (operation) (Cable, fixed installation)	-40 °C ... 105 °C (cable, fixed installation)
Ambient temperature (operation) (Cable, flexible installation)	-30 °C ... 105 °C (Cable, flexible installation)

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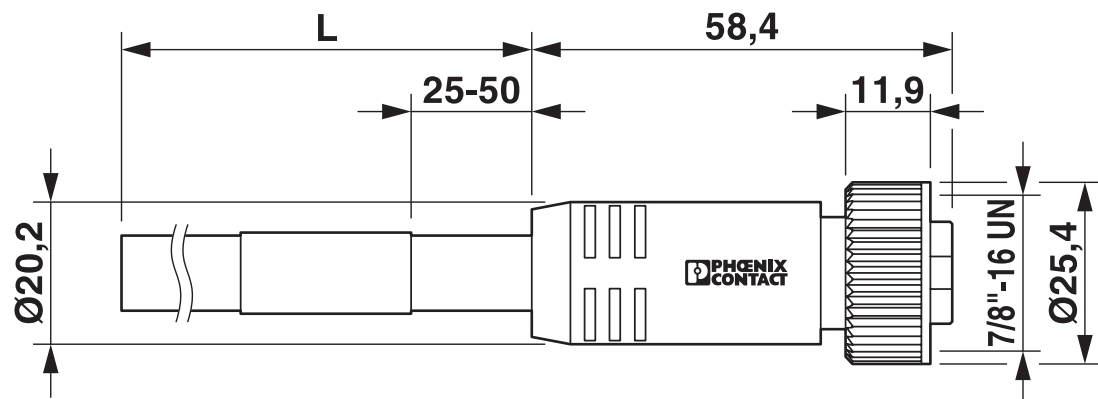
## Drawings

Dimensional drawing



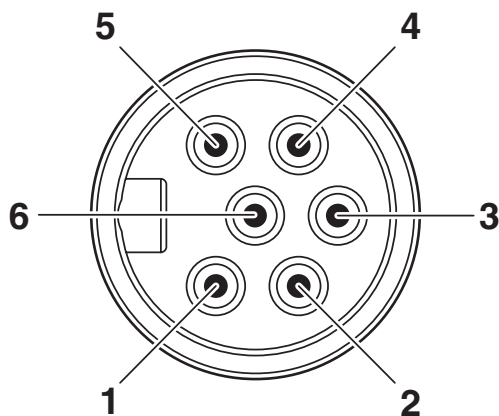
7/8"-16UNF plug, straight

Dimensional drawing



7/8"-16UNF socket, straight

Schematic diagram



Pin assignment, plug, 7/8"-16UNF, 6-pos., view of male side

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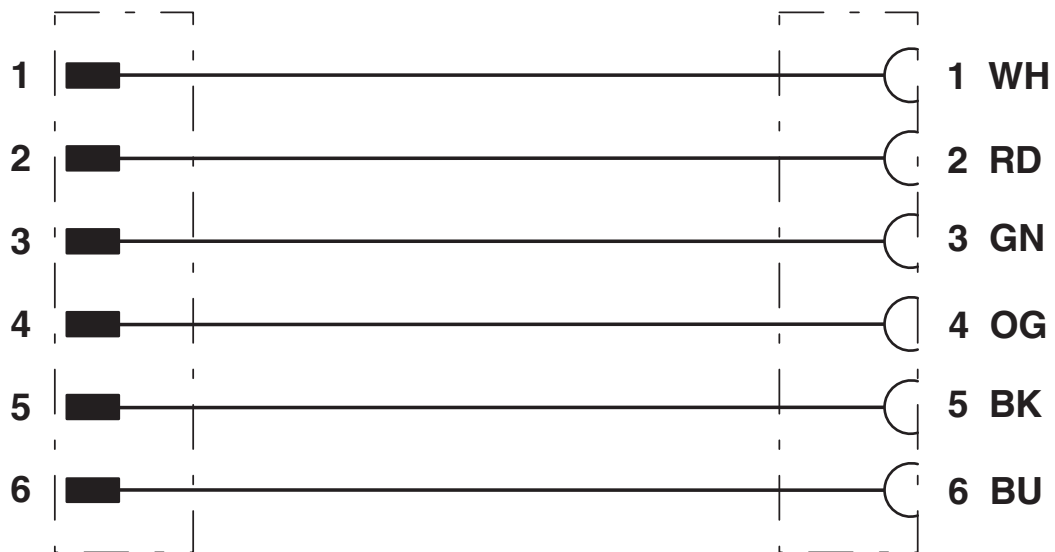
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Pin assignment, socket, 7/8"-16UNF, 6-pos., view of female side

Circuit diagram



Contact assignment of 7/8" plugs/sockets

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## Approvals

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**UL Listed**

Approval ID: FILE E 221474



**cUL Listed**

Approval ID: FILE E 221474

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## Classifications

### ECLASS

ECLASS-13.0	27060311
ECLASS-15.0	27060311

### ETIM

ETIM 10.0	EC001855
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### UNSPSC

UNSPSC 21.0	31251501
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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%
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