

1416861
<https://www.phoenixcontact.com/ca/products/1416861>

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Power cable, 6-position, Plug straight 7/8"-16UNF, coding: A, on Socket straight 7/8"-16UNF, coding: A, cable length: 5 m

Your advantages

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

Commercial data

Item number	1416861
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	BF21
Product key	BF1IMB
GTIN	4055626224244
Weight per piece (including packing)	22.22 g
Weight per piece (excluding packing)	22.22 g
Customs tariff number	85444290
Country of origin	MX

SAC-6P-MINMS/ 5,0-U20/MINFS - Power cable



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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
Number of positions	6
Application	Standard
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

Contact resistance	$\leq 5 \text{ m}\Omega$
Insulation resistance	$\geq 100 \text{ M}\Omega$
Nominal voltage U_N	600 V AC
	600 V DC
Nominal current I_N	8 A
Protective circuit	unwired

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 _f -in.
	1.12 Nm

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Connector

Connection 1

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

Connection 2

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

Cable/line

Cable length	5 m
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Yellow, STOOW [U20]

Number of positions	6
Shielded	no
Cable type	Yellow, STOOW [U20]
Conductor cross section	6 x AWG 16
External cable diameter	13.7 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)	-20 °C ... 105 °C (Plug / socket)
	-40 °C ... 105 °C (cable, fixed installation)
	-30 °C ... 105 °C (Cable, flexible installation)

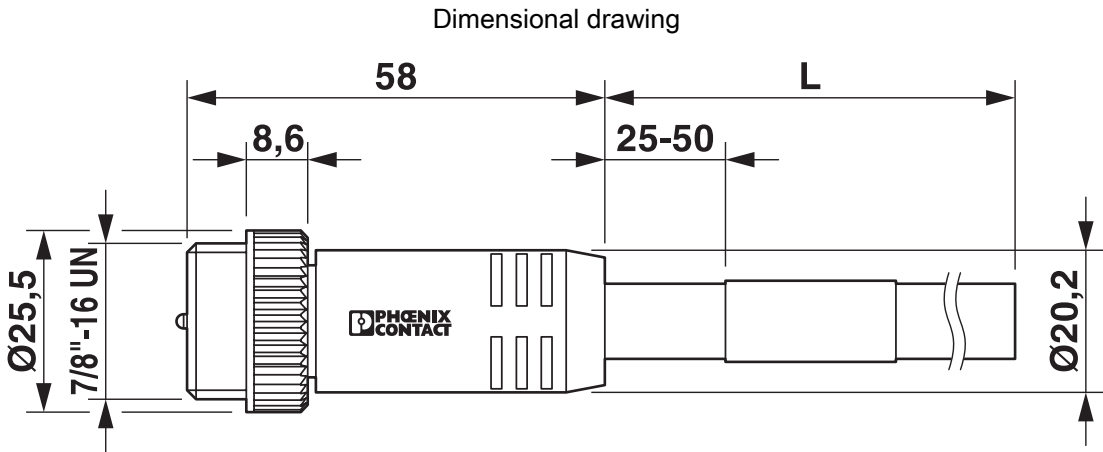
SAC-6P-MINMS/ 5,0-U20/MINFS - Power cable



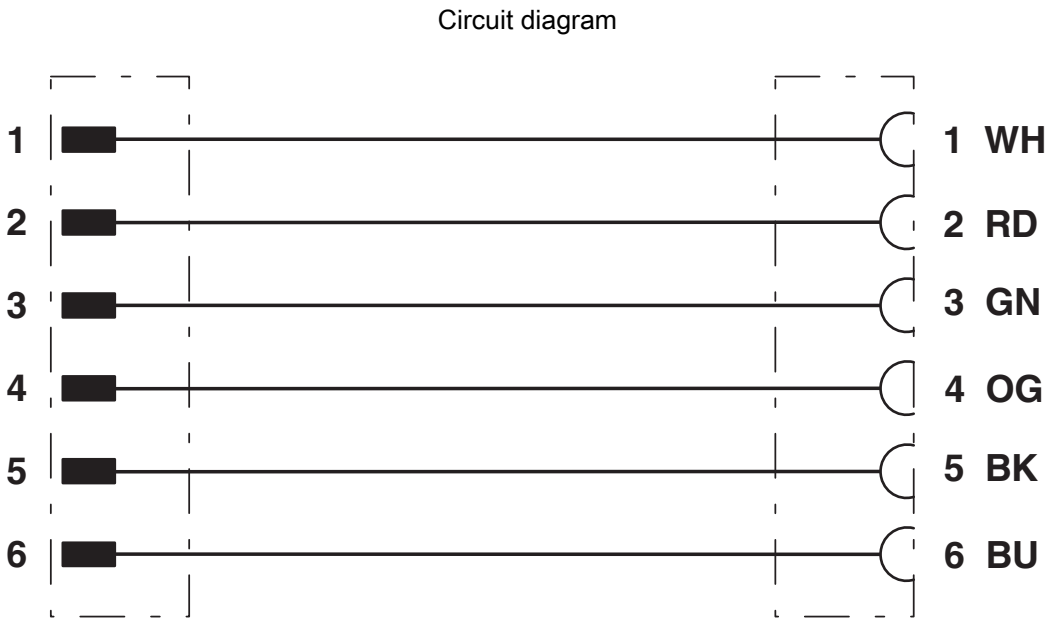
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Drawings



7/8"-16UNF plug, straight



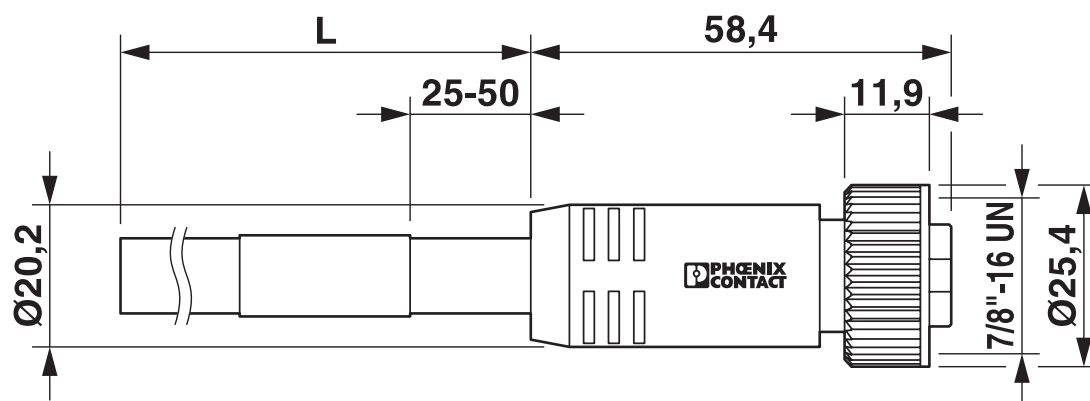
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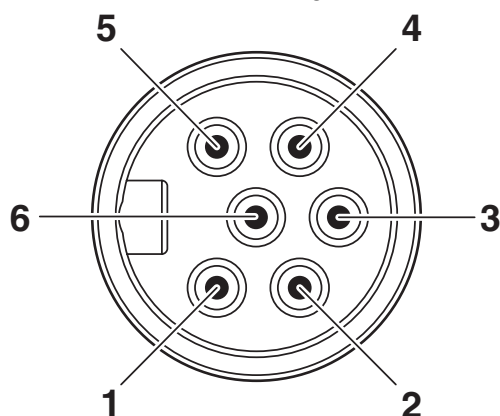
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Dimensional drawing



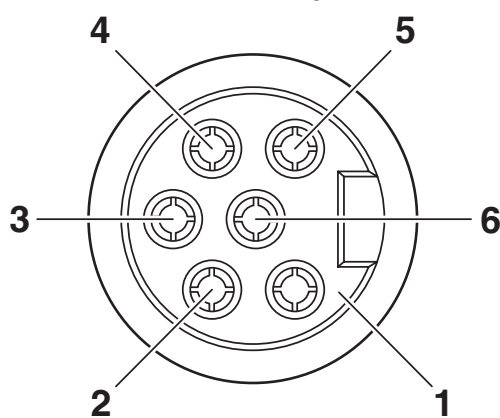
7/8\"-16UNF socket, straight

Schematic diagram



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

Schematic diagram



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

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Approvals

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UL Listed

Approval ID: FILE E 221474



cUL Listed

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Classifications

ECLASS

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

UNSPSC

UNSPSC 21.0	31251501
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Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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