

SAC-5P-MINMS/10,0-547/MINFS - Power cable



1416650

<https://www.phoenixcontact.com/us/products/1416650>

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Power cable, 5-position, PVC, yellow, Plug straight 7/8"-16UNF, on Socket straight 7/8"-16UNF, cable length: 10 m

Your advantages

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

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 1416650 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | BF14 |
| Product key | AF1IMA |
| GTIN | 4055626221915 |
| Weight per piece (including packing) | 822.22 g |
| Weight per piece (excluding packing) | 822.22 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 | 5 |
| 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 | 300 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 |
|-----------------------------|-----|

Signaling

| | |
|------------------------|----|
| Status display | no |
| Status display present | no |

Connection data

Conductor connection

| | |
|-------------------|-------------------------|
| Tightening torque | 10 lb _F ·in. |
| | 1.12 Nm |

Connector

Connection 1

| | |
|---------------------|--------------------------|
| Type | Plug straight 7/8"-16UNF |
| Number of positions | 5 |

Connection 2

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| | |
|---------------------|----------------------------|
| Type | Socket straight 7/8"-16UNF |
| Number of positions | 5 |

Cable/line

| | |
|--------------|------|
| Cable length | 10 m |
|--------------|------|

PVC AWG 18 yellow 105°C [547]

| | |
|---|--|
| Dimensional drawing |  |
| UL AWM Style | 2517 (105 °C / 300 V) |
| Number of positions | 5 |
| Shielded | no |
| Cable type | PVC AWG 18 yellow 105°C [547] |
| Conductor structure signal line | 41x 0.16 mm |
| AWG signal line | 18 |
| Wire diameter incl. insulation | 1.7 mm ±0.03 mm |
| External cable diameter | 6.60 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 | brown, white, blue, black, gray |
| Overall twist | 5 wires around filler to the core |
| Nominal voltage, cable | 300 V |
| Minimum bending radius, fixed installation | 8 x D |
| Smallest bending radius, fixed installation | 53 mm |
| Flame resistance | FT4 |
| Special properties | UL ITC/PLTC 105 °C CSA AWM I/II A/B FT4 105 °C / 300 V |
| Ambient temperature (operation) | -30 °C ... 105 °C (cable, fixed 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) | -20 °C ... 105 °C (Plug / socket) |

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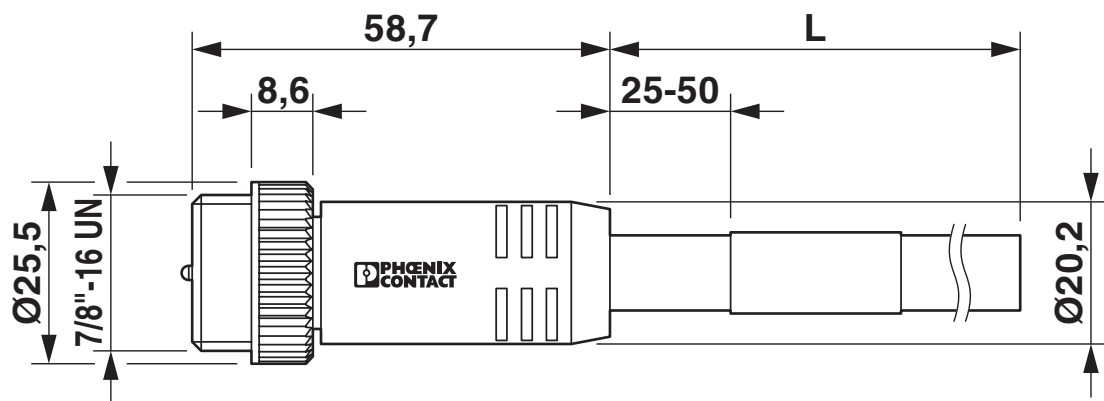
| | |
|--|--|
| Ambient temperature (operation) (Cable, fixed installation) | -40 °C ... 105 °C (cable, fixed installation) |
| Ambient temperature (operation) (Cable, flexible installation) | -30 °C ... 105 °C (Cable, flexible installation) |

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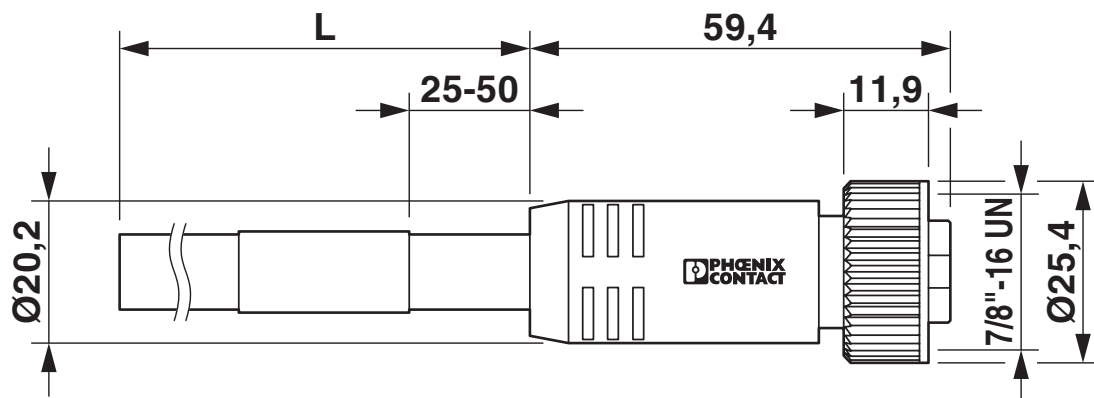
Drawings

Dimensional drawing



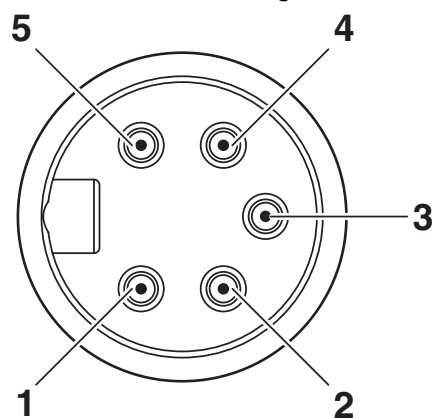
7/8"-16UNF plug, straight

Dimensional drawing



7/8"-16UNF socket, straight

Schematic diagram



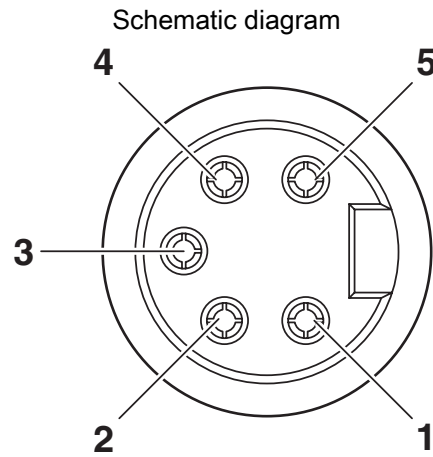
Pin assignment, plug, 7/8"-16UNF, 5-pos., view of male side

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Pin assignment, socket, 7/8"-16UNF, 5-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

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27060311 |
| ECLASS-15.0 | 27060311 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC001855 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 31251501 |
|-------------|----------|

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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% |
|-------------------------------------|----------------------------|

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