# PDC-3P-138MS/ 2,0-U80/138FS - Power cable

1423193

https://www.phoenixcontact.com/us/products/1423193

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Power cable, 3-position, TPE, black, Plug straight 1-3/8"-16UN, on Socket straight 1-3/8"-16UN, coding: Standard, cable length: 2 m

## Commercial data

| | |
|---|---|
| Item number | 1423193 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | BF14 |
| Weight per piece (excluding packing) | 760 g |
| Country of origin | MX |

# Technical data

## Product properties

| | |
|---|---|
| Product type | Sensor/actuator cable |
| Number of positions | 3 |
| Shielded | no |

## Material specifications

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

## Electrical properties

| | |
|---|---|
| Insulation resistance | 5000 MΩ |
| Nominal voltage $U_N$ | 600 V AC (UL rating) |
| | 50 V AC (IEC rating) |
| Nominal current $I_N$ | 30 A (UL 2237) |

## Mechanical properties

Mechanical data

| | |
|---|---|
| Insertion/withdrawal cycles | 500 |

## Connector

Connection 1

| | |
|---|---|
| Type | Plug straight 1-3/8"-16UN |

Connection 2

| | |
|---|---|
| Type | Socket straight 1-3/8"-16UN |
| Coding type | Standard |

## Cable/line

| | |
|---|---|
| Cable length | 2 m |

TC-ER/600V [U80]

| | |
|---|---|
| Number of positions | 3 |
| Shielded | no |
| Cable type | TC-ER/600V [U80] |
| Conductor cross-section | 3 x AWG 10 |
| External cable diameter | 12.00 mm |
| Outer sheath, material | TPE |
| External sheath, color | black |

| | |
|---|---|
| Conductor material | Bare Cu litz wires |
| Material wire insulation | PVC |
| Single wire, color | black 1, green 2, white 3 |
| Overall twist | 3 wires, twisted |
| Nominal voltage, cable | 600 V |
| Flame resistance | FT4 |
| Resistance to oil | yes |
| Other resistance | Wet locations |
| Ambient temperature (operation) | -40 °C ... 90 °C (cable, fixed installation) |

## Environmental and real-life conditions

### Ambient conditions

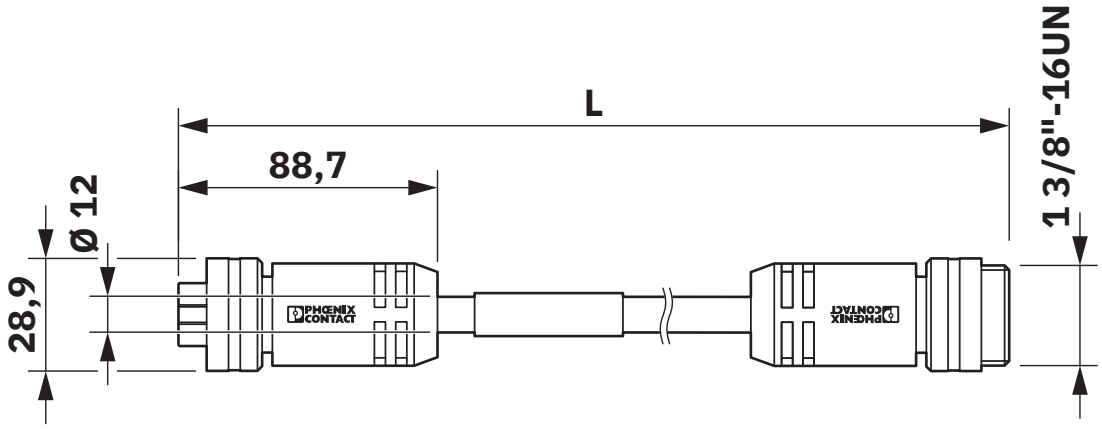
| | |
|---|---|
| Degree of protection | IP67 |
| Ambient temperature (operation) (male connector/female connector) | -40 °C ... 90 °C (Plug / socket) |
| Ambient temperature (operation) (Cable, fixed installation) | -40 °C ... 90 °C (cable, fixed installation) |

## Standards and regulations

| | |
|---|---|
| Standards/specifications | UL 2237 |
| Note | SCCR 65KA |
| Standard designation | Vibration |
| Standards/specifications | MIL-STD-202 method 204 |
| Standard designation | Thermal shock |
| Standards/specifications | MIL-STD-202 method 207 |
| Standard designation | 48 hour salt spray |
| Standards/specifications | MIL-STD-202 method 101 |

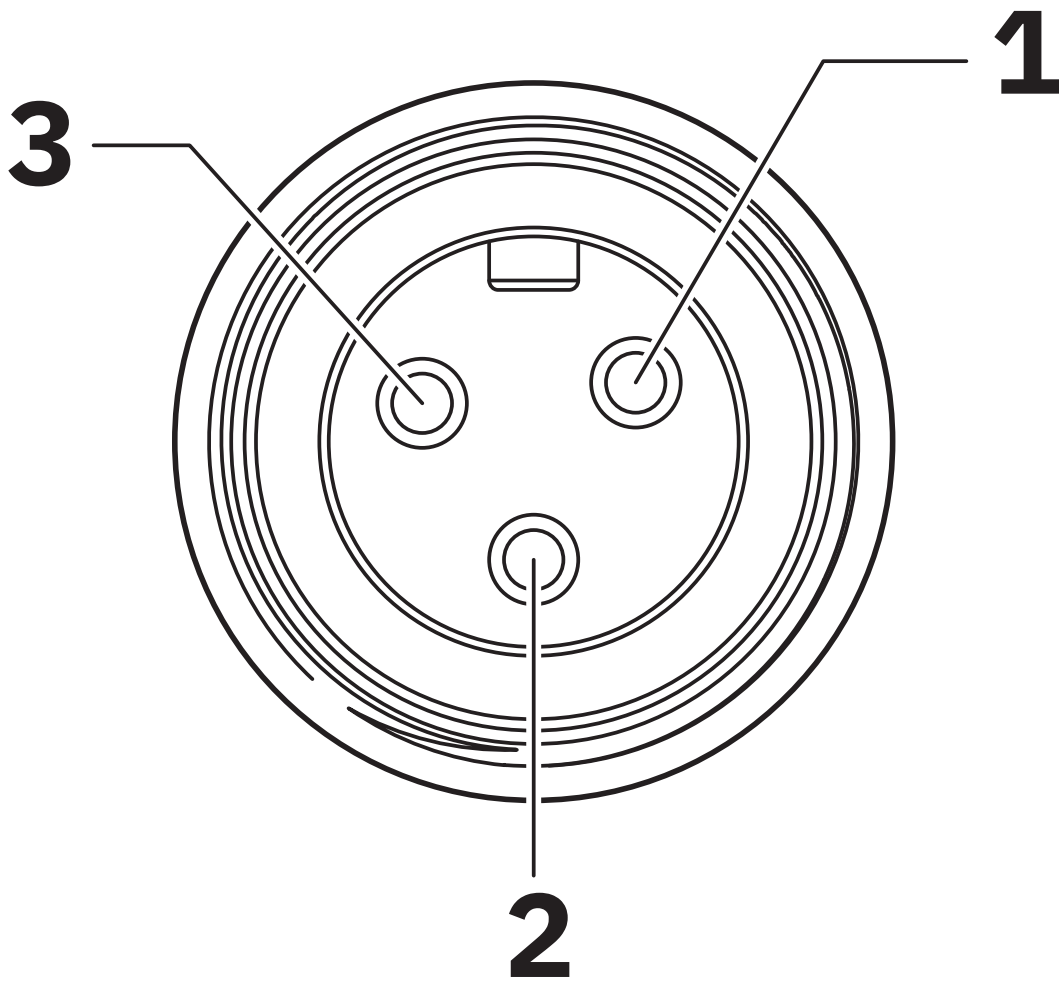
## Drawings

Dimensional drawing



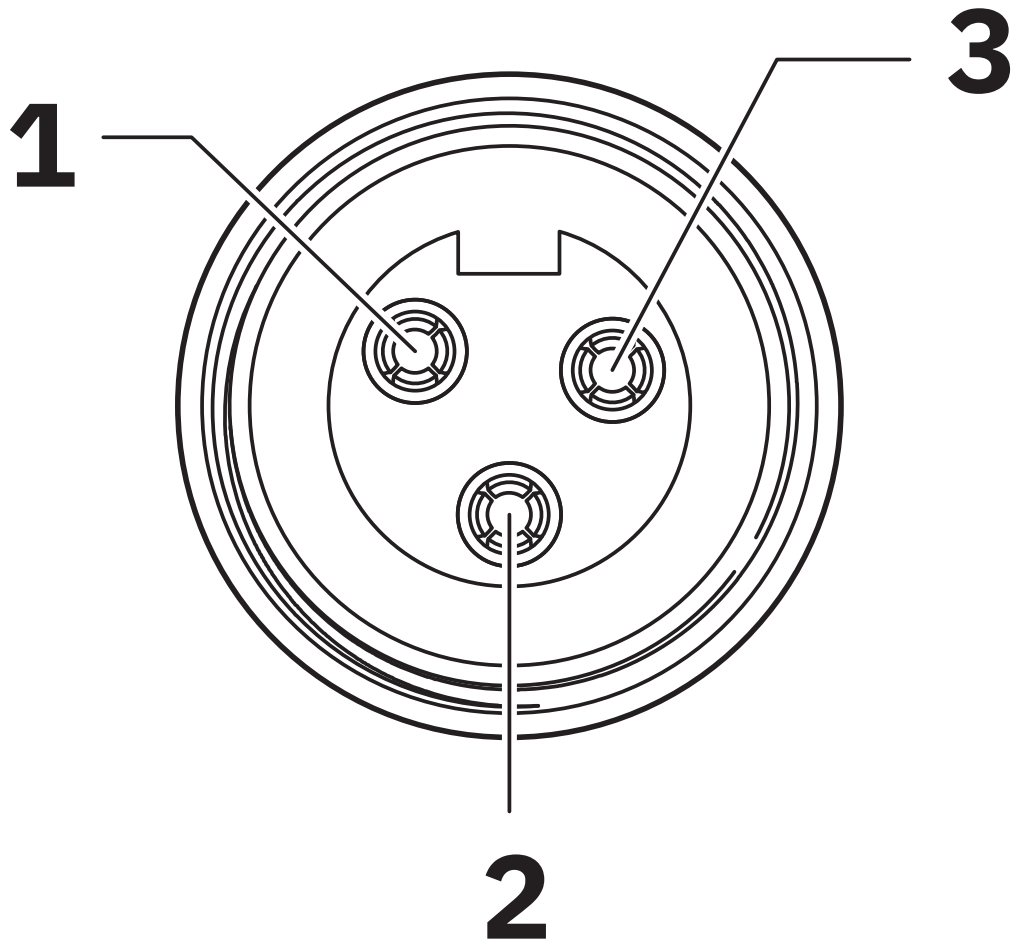

1-3/8"-16UN cordset

Schematic diagram



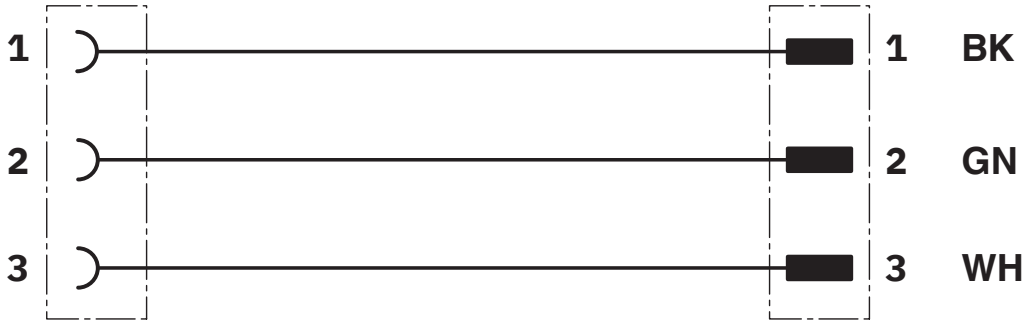

Pin assignment, plug, 1-3/8"-16UN, 3-pos., view of male side

Schematic diagram




Pin assignment, socket, 1-3/8"-16UN, 3-pos., view of female side

Circuit diagram




Contact assignment of 1-3/8" plugs/sockets

## Classifications

### ECLASS

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

### ETIM

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

## Environmental product compliance

EU RoHS

| | |
|---|---|
| Fulfills EU RoHS substance requirements | Not applicable, Not qualified for the European market |

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% |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 25.142 kg CO2e |

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Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com