

SACC-E-MINF-3CON-NPT12-U20/1,0 - Flush-type connector



1420953

<https://www.phoenixcontact.com/us/products/1420953>

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Flush-type connector, 3-position, Socket, straight, 7/8"-16UNF, on free cable end, Individual wires, cable length: 1 m, 1.50 mm², PVC litz wire

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 1420953 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | BF14 |
| Product key | AF2ICA |
| GTIN | 4055626341460 |
| Weight per piece (including packing) | 91.4 g |
| Weight per piece (excluding packing) | 22.22 g |
| Customs tariff number | 85444290 |
| Country of origin | MX |

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Technical data

Mounting

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

Product properties

| | |
|----------------------|-----------------------------------|
| Product type | Circular connectors (device side) |
| Number of positions | 3 |
| No. of cable outlets | 1 |
| Shielded | no |

Insulation characteristics

| | |
|----------------------|----------------|
| Overvoltage category | UL 2238 Sec 38 |
| Degree of pollution | 3 |

Material specifications

| | |
|--|-------------------|
| Flammability rating according to UL 94 | V-0 |
| Housing surface material | Al anodized |
| Contact material | Copper alloy |
| Contact surface material | Au |
| Contact carrier material | PVC |
| Material for screw connection | Anodized aluminum |

Electrical properties

| | |
|--------------------------------|-------------------------|
| Insulation resistance | ≥ 100 MΩ |
| Nominal voltage U _N | 600 V AC/DC (UL rating) |
| | 50 V AC/DC (IEC rating) |
| Nominal current I _N | 13 A |

Connection data

Conductor connection

| | |
|-------------------------|-------------------------|
| Connection method | Individual wires |
| Contact connection type | Socket |
| Conductor cross-section | 1.5 mm ² |
| Tightening torque | 10 lb _F -in. |
| | 1.12 Nm |

Mechanical properties

Mechanical data

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

Connector

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Connection 1

| | |
|-------------------|------------|
| Head design | Socket |
| Head cable outlet | straight |
| Head thread type | 7/8"-16UNF |

Connection 2

| | |
|-------------|----------------|
| Head design | free cable end |
|-------------|----------------|

Cable/line

| | |
|--------------------------------|---------------------------|
| Cable length | 1 m |
| Cable type | PVC litz wire |
| Wire diameter incl. insulation | 2.6 mm |
| Single wire, color | green 1, black 2, white 3 |
| Cable cross section | 1.5 mm ² |
| AWG signal line | 16 |
| Material wire insulation | PVC |
| Thickness, insulation | Core insulation |

Environmental and real-life conditions

Ambient conditions

| | |
|---|--|
| Degree of protection | IP68 |
| | IP68 |
| Ambient temperature (operation) (male connector/female connector) | -20 °C ... 80 °C (Plug) |
| Ambient temperature (operation) | -20 °C ... 80 °C (cable, fixed installation) |

Standards and regulations

| | |
|--------------------------|--|
| Standard designation | 7/8" connector |
| Standards/specifications | UL 2238 |
| Note | Suitable for use in Class I, Division 2 Groups A, B, C, D hazardous locations according to ISA standard 12.12.01-2015, section 8.2 and 8.8.3 |

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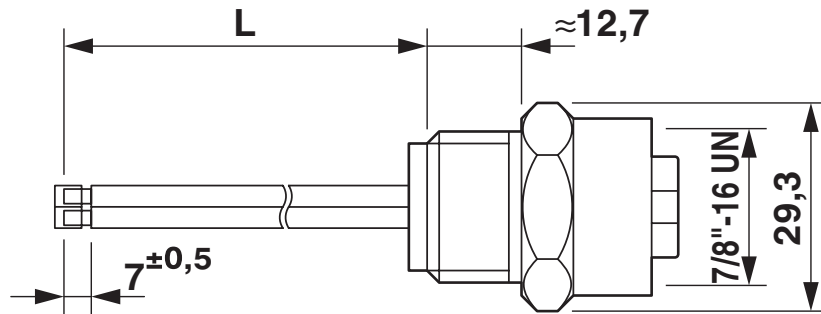


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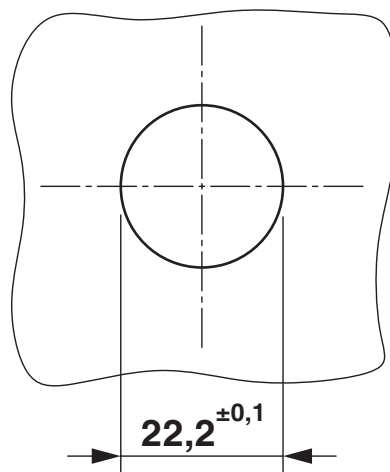
Drawings

Dimensional drawing



7/8" flush-type socket

Dimensional drawing



Housing cutout

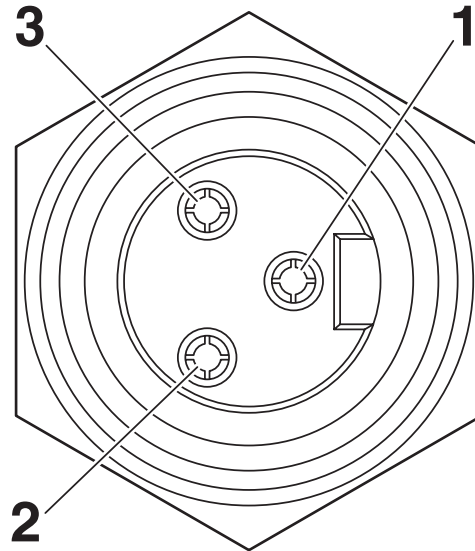
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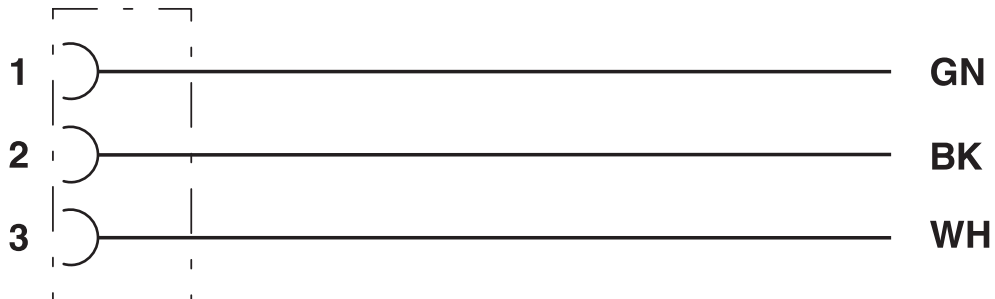
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Schematic diagram



Pin assignment, socket, 7/8"-16UNF, 3-pos., view of female side (reference image)

Circuit diagram



Contact assignment of 7/8" socket

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Approvals

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UL Listed

Approval ID: FILE E 221474



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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 27440109 |
| ECLASS-15.0 | 27440109 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC003569 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 39121413 |
|-------------|----------|

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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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