

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



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 mm<sup>2</sup>, 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 <sub>F</sub> 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

|                     |   |
|---------------------|---|
| 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 <sub>N</sub> | 600 V AC/DC (UL rating) |
|                                | 50 V AC/DC (IEC rating) |
| Nominal current I <sub>N</sub> | 13 A                    |

### Connection data

#### Conductor connection

|                         |                        |
|-------------------------|------------------------|
| Connection method       | Individual wires       |
| Contact connection type | Socket                 |
| Conductor cross-section | 1.5 mm <sup>2</sup>    |
| Tightening torque       | 10 lb <sub>F</sub> in. |
|                         | 1.12 Nm                |

### Mechanical properties

#### Mechanical data

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

### Connector

#### Connection 1

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|                   |            |
|-------------------|------------|
| 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 <sup>2</sup>       |
| 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 |

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

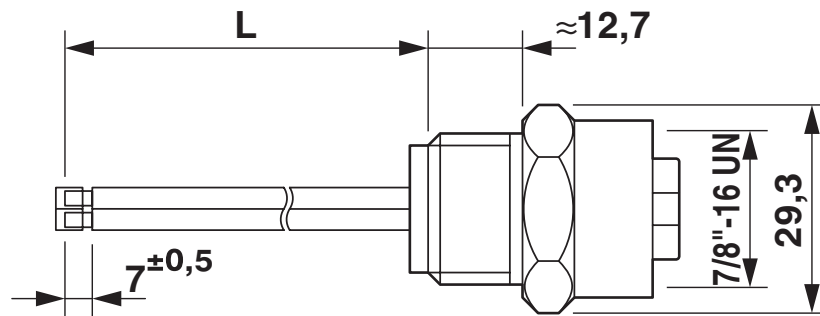


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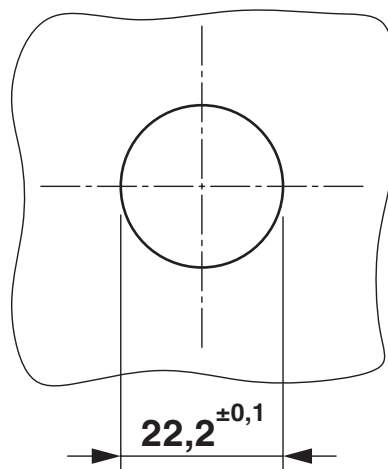
## Drawings

Dimensional drawing



7/8" flush-type socket

Dimensional drawing



Housing cutout

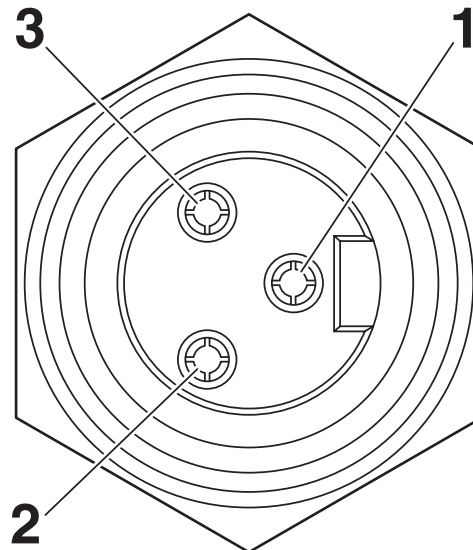
# SACC-E-MINF-3CON-NPT12-U20/1,0 - Flush-type connector



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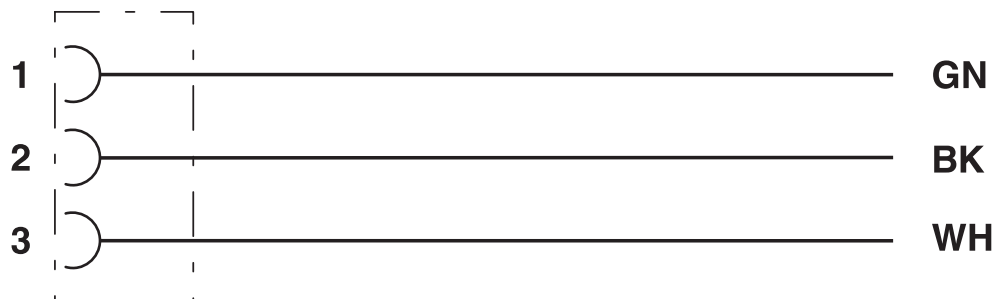
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Schematic diagram



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