

# SACC-E-MINF-4CON-NPT12-U20/1,0 - Flush-type connector



1420954

<https://www.phoenixcontact.com/us/products/1420954>

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Flush-type connector, 4-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                          | 1420954                        |
| Packing unit                         | 1 pc                           |
| Minimum order quantity               | 1 pc                           |
| Note                                 | Made to order (non-returnable) |
| Sales key                            | BF14                           |
| Product key                          | AF2ICA                         |
| GTIN                                 | 4055626341477                  |
| Weight per piece (including packing) | 114.9 g                        |
| Weight per piece (excluding packing) | 114.9 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  | 4                                 |
| 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 <sub>N</sub> | 600 V AC/DC (UL rating) |
|                                | 50 V AC/DC (IEC rating) |
| Nominal current I <sub>N</sub> | 10 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

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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             | black 1, white 2, red 3, green 4 |
| 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 |

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## Drawings

Dimensional drawing



7/8" flush-type socket

Dimensional drawing



Housing cutout

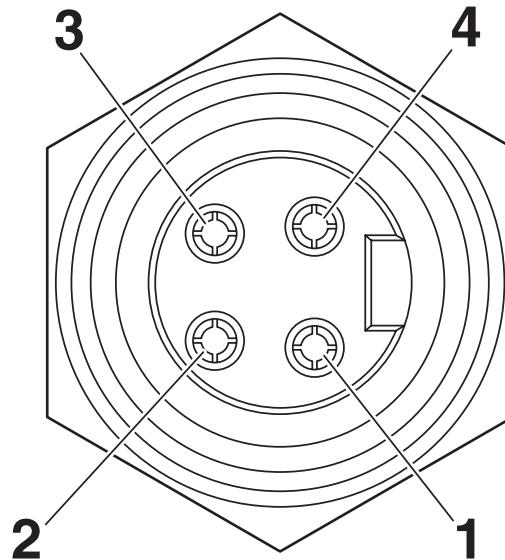
# SACC-E-MINF-4CON-NPT12-U20/1,0 - Flush-type connector



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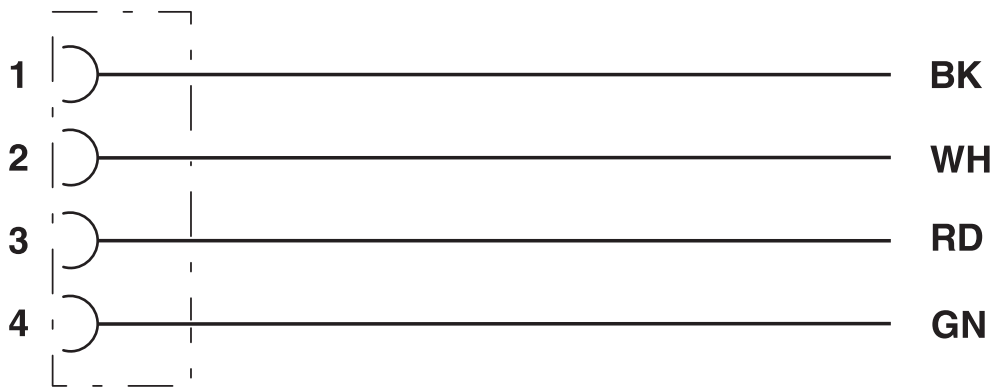
<https://www.phoenixcontact.com/us/products/1420954>

Schematic diagram



Pin assignment, socket, 7/8"-16UNF, 4-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



**cUL Listed**

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