

SACC-E-M12FS-4CON-NPT12/1,0 - Panel feed-through



1421082

<https://www.phoenixcontact.com/us/products/1421082>

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Panel feed-through, 4-position/PVC, Socket, straight, M12, A-coding, on free cable end, Individual wires, cable length: 1 m, 0.34 mm², PVC litz wire

Commercial data

| | |
|--------------------------------------|--------------------------------|
| Item number | 1421082 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Note | Made to order (non-returnable) |
| Sales key | BF13 |
| Product key | AF2IBA |
| GTIN | 4055626337715 |
| Weight per piece (including packing) | 22.22 g |
| Weight per piece (excluding packing) | 22.22 g |
| Customs tariff number | 85444290 |
| Country of origin | MX |

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Technical data

Notes

| | |
|--------------------|--|
| Notes on operation | The electrical and mechanical data specified assume that the connector pair is correctly locked and mounted. If the connector is unlocked and if there is a danger of contamination, the connector must be sealed using a protective cap > IP54. Influences arising from litz wires, cables or PCB assembly must also be taken into consideration. |
|--------------------|--|

Trade restriction

| | |
|---------|--|
| CE note | The products are offered exclusively for export outside the EU and the European Economic Area. |
|---------|--|

Mounting

| | |
|-------------------|-----------------------------|
| Tightening torque | 1.12 Nm (Installation-side) |
|-------------------|-----------------------------|

Product properties

| | |
|----------------------|-----------------------------------|
| Product type | Circular connectors (device side) |
| Number of positions | 4 |
| No. of cable outlets | 1 |
| Shielded | no |
| Coding | A |

Insulation characteristics

| | |
|----------------------|----|
| Overvoltage category | II |
| Degree of pollution | 3 |

Material specifications

| | |
|--|-------------------|
| Flammability rating according to UL 94 | V0 |
| Housing surface material | die-cast aluminum |
| Contact material | Cu alloy |
| Contact surface material | Au |
| Contact carrier material | PA 6.6 |
| Material for screw connection | Aluminum alloy |

Electrical properties

| | |
|-----------------------|----------------------------|
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage U_N | 300 V |
| Nominal current I_N | 4 A |

Connection data

Conductor connection

| | |
|-------------------------|----------------------|
| Connection method | Individual wires |
| Contact connection type | Socket |
| Conductor cross-section | 0.34 mm ² |

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| | |
|-------------------|-----------------------------|
| Tightening torque | 1.12 Nm (Installation-side) |
|-------------------|-----------------------------|

Mechanical properties

Mechanical data

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

Connector

Connection 1

| | |
|-------------------|----------|
| Head design | Socket |
| Head cable outlet | straight |
| Head thread type | M12 |
| Coding | A |

Connection 2

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

Cable/line

| | |
|---------------------------------|---------------------------|
| Cable length | 1 m |
| Cable type | PVC litz wire |
| Cable type | PVC litz wire |
| Cable structure | 4 x 22 AWG |
| Wire diameter incl. insulation | 1.78 mm |
| Single wire, color | brown, white, blue, black |
| Cable cross section | 0.34 mm ² |
| Material, inner sheath | PVC |
| Conductor structure signal line | 7x (30 AWG strand) |
| AWG signal line | 22 |
| Material wire insulation | PVC |
| Thickness, insulation | 0.76 mm |

Environmental and real-life conditions

Ambient conditions

| | |
|---|-------------------|
| Degree of protection | IP68 |
| Ambient temperature (operation) (male connector/female connector) | -20 °C ... 105 °C |

Standards and regulations

| | |
|--------------------------|--|
| Standard designation | M12 connector |
| Standards/specifications | IEC 61076-2-101 |
| 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 |

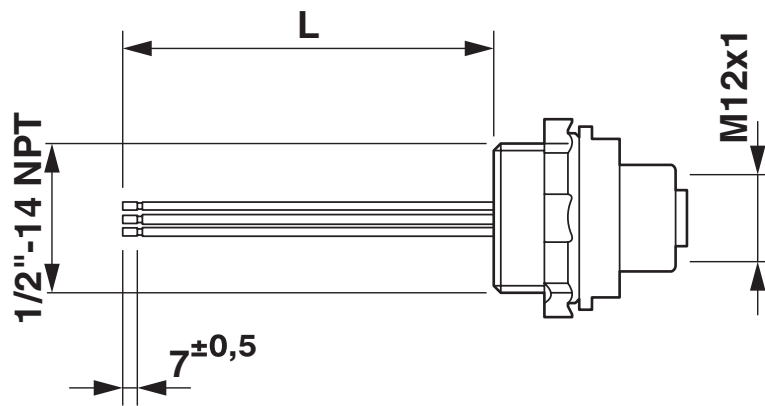
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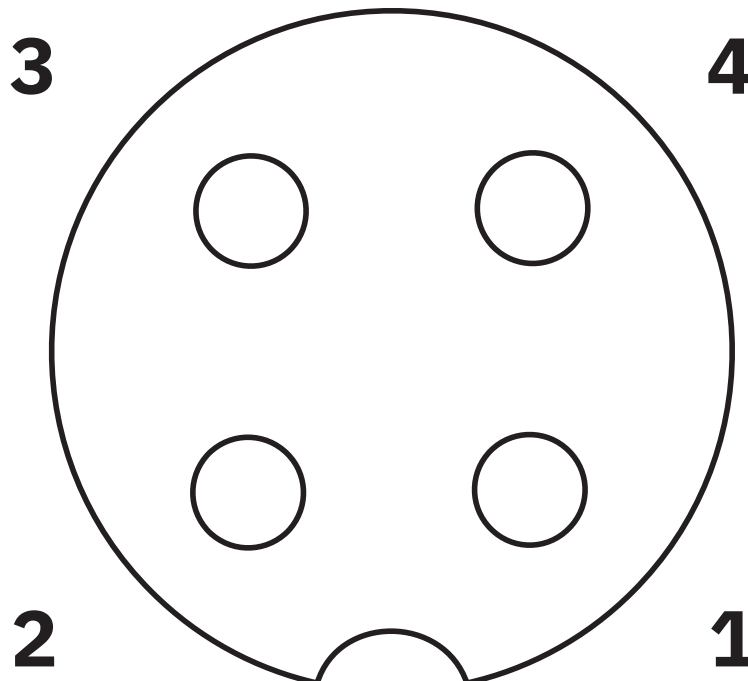
Drawings

Dimensional drawing



M12 flush-type socket

Schematic diagram



Pin assignment M12 socket, 4-pos., A-coded, view female side

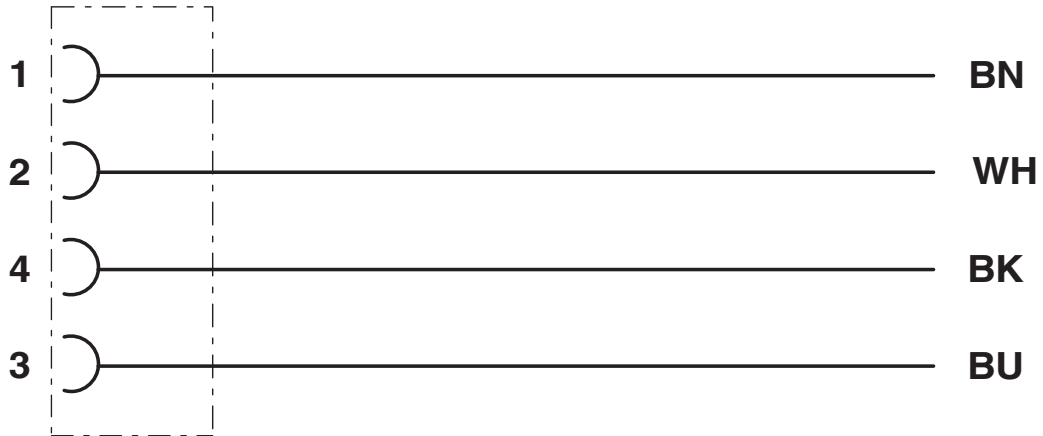
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Circuit diagram



Contact assignment of the M12 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 |
|-----------|----------|

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

EF3.1 Climate Change

| | |
|---------|---------------|
| CO2e kg | 3.997 kg CO2e |
|---------|---------------|

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