

# SACC-CI-M12FSDR-4CON-L90 THR R - Contact carrier



1028581  
<https://www.phoenixcontact.com/us/products/1028581>

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Contact carrier, 4-position, Socket, angled, M12, D-coding, THR solder connection

## Product description

Pin assignment rotated 180°

## Your advantages

- Suitable for pick-and-place: Automated assembly on the PCB helps to increase efficiency in production
- Optimized design: Shifted center of gravity, thereby “effortless” standing on the PCB without locking clips
- Flexible: Easy positioning and alignment on the PCB even in confined spaces
- Modular: Compatible with the available THR housings

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1028581       |
| Packing unit                         | 120 pc        |
| Minimum order quantity               | 120 pc        |
| Sales key                            | AB23          |
| Product key                          | ABQAHT        |
| GTIN                                 | 4055626666082 |
| Weight per piece (including packing) | 9.016 g       |
| Weight per piece (excluding packing) | 5.386 g       |
| Customs tariff number                | 85366990      |
| Country of origin                    | DE            |

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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. |
| Order information: | Not compatible with SPEEDCON housings.                                                                                                                                                                                                                                                                                                             |

### Product properties

|                     |                |
|---------------------|----------------|
| Product type        | Contact insert |
| Application         | Data           |
|                     | Signal         |
| Number of positions | 4              |
| Coding              | D              |
| Thread type         | M12            |

### Insulation characteristics

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

### Electrical properties

|                       |                            |
|-----------------------|----------------------------|
| Rated surge voltage   | 2.5 kV                     |
| Contact resistance    | $\leq 10 \text{ m}\Omega$  |
| Insulation resistance | $\geq 100 \text{ M}\Omega$ |
| Nominal voltage $U_N$ | 250 V                      |
| Nominal current $I_N$ | 4 A                        |

### Connection data

|                   |                       |
|-------------------|-----------------------|
| Connection method | THR solder connection |
|-------------------|-----------------------|

### Material specifications

|                                        |        |
|----------------------------------------|--------|
| Material Contact carrier               | PA 6.6 |
| Material Contact                       | CuZn   |
| Material Contact surface               | Au     |
| Flammability rating according to UL 94 | V0     |

### Connector

#### Connection 1

|                   |        |
|-------------------|--------|
| Head design       | Socket |
| Head cable outlet | angled |
| Head thread type  | M12    |
| Coding            | D      |

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## Mechanical properties

### Mechanical data

|                             |       |
|-----------------------------|-------|
| Insertion/withdrawal cycles | > 100 |
|-----------------------------|-------|

## Environmental and real-life conditions

### Ambient conditions

|                                                                   |                                                  |
|-------------------------------------------------------------------|--------------------------------------------------|
| Degree of protection                                              | IP67 (correctly plugged in and locked)           |
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 105 °C (Plug / socket)                |
|                                                                   | -40 °C ... 105 °C (without mechanical actuation) |
| UL Type Rating                                                    | Type 4 (indoor use only)                         |

## Standards and regulations

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

## Mounting

|               |                                                                 |
|---------------|-----------------------------------------------------------------|
| Assembly note | The pin assignment is rotated 180° to comply with the standard. |
|---------------|-----------------------------------------------------------------|

## Packaging specifications

|                   |       |
|-------------------|-------|
| Type of packaging | Belt  |
| [W] tape width    | 44 mm |

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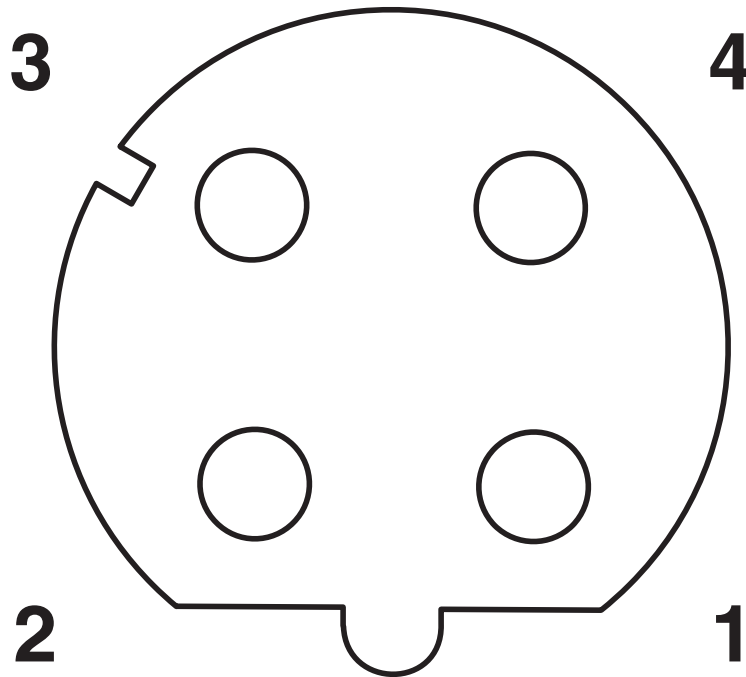


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## Drawings

Schematic diagram



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

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440223 |
| ECLASS-15.0 | 27440223 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC003568 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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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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