

# VS-EC-MSDB SH SCO - Device connector front mounting

1440711

<https://www.phoenixcontact.com/us/products/1440711>

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Device connector front mounting, 4-position, Mini-B USB socket, straight, M12-SPEEDCON, Wave soldering, this item is expected to be lead-free from Q2 2026 in accordance with RoHS II without exception 6c (Pb < 0.1%), a lead-free alternative is possible on request in advance

## Your advantages

- Easy PCB assembly: one-piece connectors for wave soldering
- For high transmission reliability: optional shield connection to the housing by means of shield contact
- SPEEDCON fast locking system reduces cabling times

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1440711       |
| Packing unit                         | 20 pc         |
| Minimum order quantity               | 20 pc         |
| Sales key                            | AB27          |
| Product key                          | ABQSAI        |
| GTIN                                 | 4046356554053 |
| Weight per piece (including packing) | 11 g          |
| Weight per piece (excluding packing) | 10.117 g      |
| Customs tariff number                | 85366990      |
| Country of origin                    | DE            |

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## Technical data

### Mounting

|               |  |
|---------------|--|
| Mounting type | Front mounting (M12 x 1, with locking nut) |
|---------------|--|

### Product properties

|                     |                                   |
|---------------------|-----------------------------------|
| Product type        | Circular connectors (device side) |
| Number of positions | 4                                 |
| Shielded            | yes                               |
| Thread type         | M12                               |

### Material specifications

|  |          |
|--|----------|
| Material Housing                       | GD-Zn    |
| Material Housing surface               | Ni       |
| Material Contact                       | Cu alloy |
| Material Contact surface               | Au       |
| Flammability rating according to UL 94 | V0       |

### Electrical properties

|   |                              |
|---|------------------------------|
| Nominal voltage $U_N$                   | 30 V                         |
| Nominal current $I_N$                   | 1 A                          |
| Transmission characteristics (category) | CAT7, for USB 2.0 (480 Mbps) |

### Connection data

#### Conductor connection

|                         |                |
|-------------------------|----------------|
| Connection method       | Wave soldering |
| Contact connection type | Socket         |

### Mechanical properties

#### Mechanical data

|                             |            |
|-----------------------------|------------|
| Insertion/withdrawal cycles | $\geq 100$ |
|-----------------------------|------------|

### Connector

#### Connection 1

|                   |                   |
|-------------------|-------------------|
| Head design       | Mini-B USB socket |
| Head cable outlet | straight          |
| Head thread type  | M12               |
| Head locking type | SPEEDCON          |

### Environmental and real-life conditions

#### Ambient conditions

|                      |      |
|----------------------|------|
| Degree of protection | IP67 |
|----------------------|------|

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|   |                          |
|---|--------------------------|
| Ambient temperature (operation) (male connector/female connector) | -25 °C ... 85 °C         |
| UL Type Rating  | Type 4 (indoor use only) |

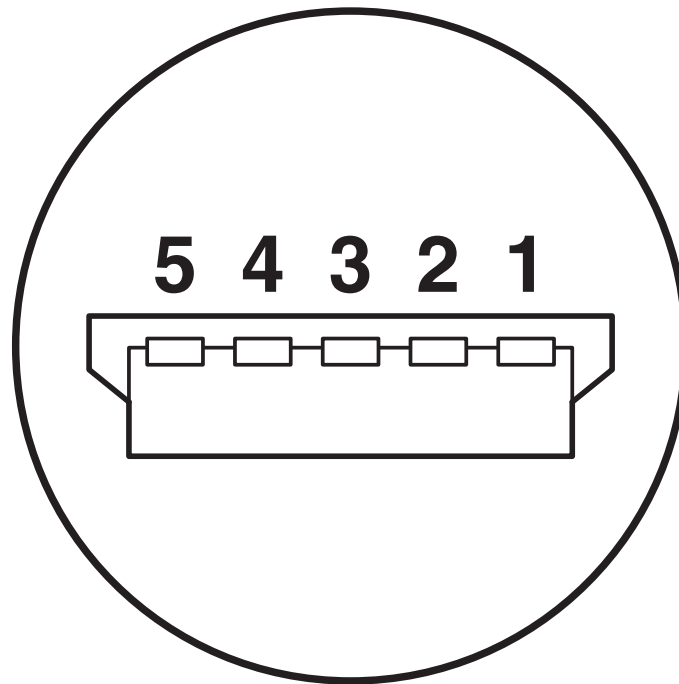
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## Drawings

Schematic diagram



Connector pin assignment

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440110 |
| ECLASS-15.0 | 27440110 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC003568 |
|-----------|----------|

### UNSPSC

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

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## Environmental product compliance

### EU RoHS

|   |      |
|---|------|
| Fulfills EU RoHS substance requirements | Yes  |
| Exemption                               | 6(c) |

### China RoHS

|  |   |
|--|---|
| Environment friendly use period (EFUP) | EFUP-50   |
|  | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

### EU REACH SVHC

|                                     |                                      |
|-------------------------------------|--------------------------------------|
| REACH candidate substance (CAS No.) | Lead(CAS: 7439-92-1)                 |
| SCIP                                | 491229b7-7486-4d50-82c2-05c47764e7c1 |

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