

# EO-CF/UT-USB-A/C - Socket



1494812

<https://www.phoenixcontact.com/us/products/1494812>

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Socket, integrated USB, 1x type A and 1x type C, 5 V/3 A (total), Pin connector pattern type CF, connection method: Screw connection, color: gray, nom. voltage: 250 V AC (50 Hz), nominal current: 16 A, DIN rail or direct mounting, standards/specifications: VDE 0620-1, IEC 60884-1, Country marking: Germany

## Your advantages

- No additional need for USB chargers or external power supply units
- Reliable USB power supply directly in the control cabinet
- More operational safety and less cable chaos
- Faster installation thanks to integrated solution
- Future-proof equipment for modern applications

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1494812       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 5 pc          |
| Sales key                            | BE76          |
| Product key                          | BE7611        |
| GTIN                                 | 4063151943776 |
| Weight per piece (including packing) | 154.8 g       |
| Weight per piece (excluding packing) | 154.8 g       |
| Customs tariff number                | 85366990      |
| Country of origin                    | PL            |

## Technical data

### Notes

|                    |                                                                                                                                      |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Notes on operation | This socket is not designed for applications with high loads (HL), such as chargers for electric vehicles and large radiant heaters. |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------|

### Product properties

|              |         |
|--------------|---------|
| Product type | Socket  |
| Country ID   | Germany |

### Connection data

|                                                                                                                   |                                              |
|-------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Connection method                                                                                                 | Screw connection                             |
| Screw thread                                                                                                      | M3                                           |
| Tightening torque                                                                                                 | 0.5 ... 0.6 Nm                               |
| Stripping length                                                                                                  | 8 mm                                         |
|                                                                                                                   | 8 mm                                         |
| Internal cylindrical gage                                                                                         | A3                                           |
|                                                                                                                   | B3                                           |
| Conductor cross-section rigid                                                                                     | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>    |
| Cross section AWG                                                                                                 | 24 ... 12 (converted acc. to IEC)            |
| Conductor cross-section flexible                                                                                  | 0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross-section, flexible [AWG]                                                                           | 24 ... 14 (converted acc. to IEC)            |
| Conductor cross-section flexible (ferrule without plastic sleeve)                                                 | 0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Flexible conductor cross-section (ferrule with plastic sleeve)                                                    | 0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Conductor cross-section flexible (2 conductors with the same cross-section, with TWIN ferrule and plastic sleeve) | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>    |
| Nominal current                                                                                                   | 16 A                                         |
| Nominal voltage                                                                                                   | 250 V AC (50 Hz)                             |

### Dimensions

|                    |         |
|--------------------|---------|
| Width              | 66 mm   |
| Height             | 75.4 mm |
| Depth              | 62.1 mm |
| Depth on NS 35/7,5 | 60 mm   |
| Depth on NS 35/15  | 67.5 mm |

### Material specifications

|                                                                  |                 |
|------------------------------------------------------------------|-----------------|
| Color                                                            | gray (RAL 7042) |
| Flammability rating according to UL 94                           | V0              |
| Insulating material                                              | PA              |
| Static insulating material application in cold                   | -60 °C          |
| Relative insulation material temperature index (Elec., UL 746 B) | 130 °C          |
| Fire protection for rail vehicles (DIN EN 45545-2) R22           | HL 1 - HL 3     |
| Fire protection for rail vehicles (DIN EN 45545-2) R23           | HL 1 - HL 3     |

|                                                         |             |
|---------------------------------------------------------|-------------|
| Fire protection for rail vehicles (DIN EN 45545-2) R24  | HL 1 - HL 3 |
| Fire protection for rail vehicles (DIN EN 45545-2) R26  | HL 1 - HL 3 |
| Surface flammability NFPA 130 (ASTM E 162)              | passed      |
| Specific optical density of smoke NFPA 130 (ASTM E 662) | passed      |
| Smoke gas toxicity NFPA 130 (SMP 800C)                  | passed      |

## Connector

|              |                               |
|--------------|-------------------------------|
| Type of plug | Pin connector pattern type CF |
|--------------|-------------------------------|

## Environmental and real-life conditions

### Oscillation/broadband noise

|                        |                                                |
|------------------------|------------------------------------------------|
| Specification          | DIN EN 50155 (VDE 0115-200):2022-06            |
| Spectrum               | Long life test category 2, bogie-mounted       |
| Frequency              | $f_1 = 5 \text{ Hz}$ to $f_2 = 250 \text{ Hz}$ |
| ASD level              | $6.12 \text{ (m/s}^2\text{)}^2\text{/Hz}$      |
| Acceleration           | 3.12g                                          |
| Test duration per axis | 5 h                                            |
| Test directions        | X-, Y- and Z-axis                              |

### Shocks

|                                |                                     |
|--------------------------------|-------------------------------------|
| Specification                  | DIN EN 50155 (VDE 0115-200):2022-06 |
| Pulse shape                    | Half-sine                           |
| Acceleration                   | 30g                                 |
| Shock duration                 | 18 ms                               |
| Number of shocks per direction | 3                                   |
| Test directions                | X-, Y- and Z-axis (pos. and neg.)   |

### Ambient conditions

|                                          |                                                                                                     |
|------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Degree of protection                     | IP20                                                                                                |
| Ambient temperature (operation)          | -5 °C ... 40 °C (according to IEC 60884-1, average value over a period of 24 hours not above +35°C) |
| Ambient temperature (storage/transport)  | -25 °C ... 60 °C (for a short time, not exceeding 24 h, -60 °C to +70 °C)                           |
| Permissible humidity (storage/transport) | 30 % ... 70 %                                                                                       |
| Resistance against air humidity          | 95 % ... 48 h                                                                                       |

## Standards and regulations

### Standards

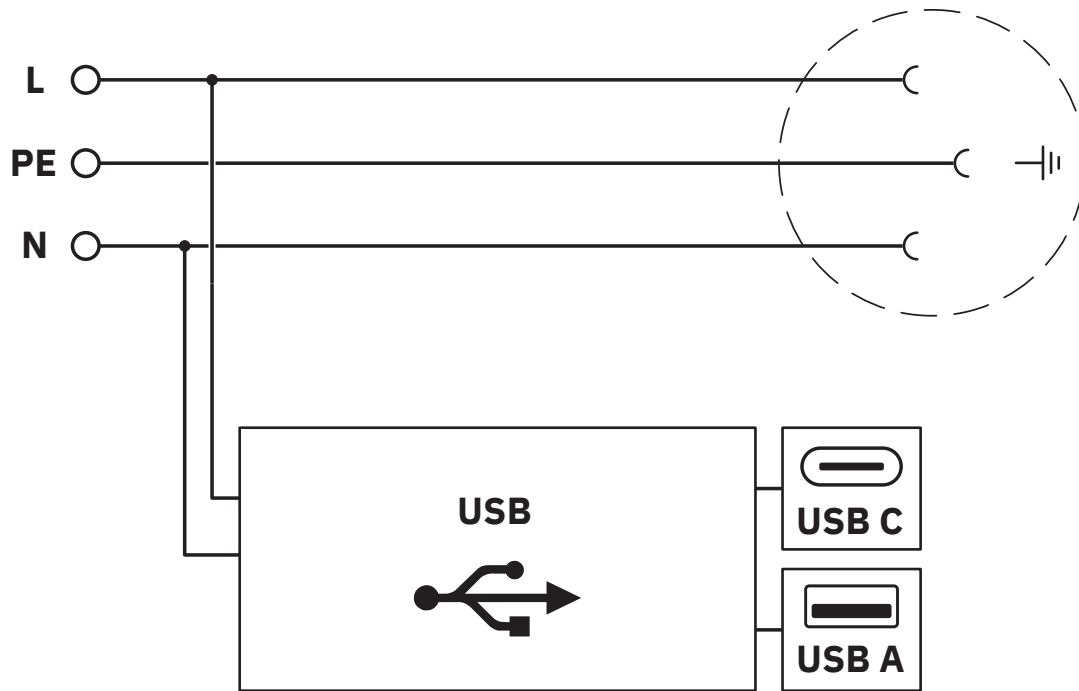
|                       |               |
|-----------------------|---------------|
| Standards/regulations | VDE 0620-1    |
|                       | IEC 60884-1   |
|                       | IEC 60884-3-1 |

## Mounting

|               |                             |
|---------------|-----------------------------|
| Mounting type | DIN rail or direct mounting |
|---------------|-----------------------------|

## Drawings

Circuit diagram



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## Approvals

💡 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1494812>



**VDE Zeichengenehmigung**

Approval ID: 40060792

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27142305 |
| ECLASS-15.0 | 27142305 |

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | EC001663 |
|-----------|----------|

## Environmental product compliance

## EU RoHS

|                                         |              |
|-----------------------------------------|--------------|
| Fulfills EU RoHS substance requirements | Yes          |
| Exemption                               | 6(c), 7(c)-I |

## 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) |
|-------------------------------------|----------------------|