

# EO-CF/PT/LED/F - Socket



0804042

<https://www.phoenixcontact.com/us/products/0804042>

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Socket, with LED display, fuse 5 x 20 mm, 6.3 A, Pin connector pattern type CF, connection method: Push-in spring connection, color: gray, nom. voltage: 250 V AC (50 Hz), nominal current: 6 A, for mounting on a DIN rail in the service interface or direct mounting, standards/specifications: VDE 0620-1, IEC 60884-1, Country marking: Germany

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 0804042       |
| Packing unit                         | 5 pc          |
| Minimum order quantity               | 5 pc          |
| Sales key                            | BE76          |
| Product key                          | BE7621        |
| GTIN                                 | 4055626225821 |
| Weight per piece (including packing) | 82.28 g       |
| Weight per piece (excluding packing) | 82.16 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. |
|--------------------|--|

### General

|      |  |
|------|--|
| Note | The nominal current does not apply for fuse versions. In this case, the current is determined by the fuse. |
|------|--|

### Product properties

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

### Electrical properties

|   |       |
|---|-------|
| Maximum power dissipation for nominal condition | 1.8 W |
|---|-------|

### Connection data

|   |  |
|---|--|
| Connection method   | Push-in spring connection  |
| Note  | The electrical outlets with Push-in connection are not designed for through-wiring. Connect a maximum of one conductor to each terminal point. Multiple assignment of one terminal point is not permitted. |
| Stripping length  | 10 mm  |
| Internal cylindrical gage   | A3<br>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) | 0.25 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>   |
| Nominal current   | 6.3 A  |
| Nominal voltage   | 250 V AC (50 Hz)   |

### Connection cross sections directly pluggable

|   |   |
|---|---|
| Conductor cross-section rigid                                     | 0.5 mm <sup>2</sup> ... 4 mm <sup>2</sup> |
| Conductor cross-section flexible (ferrule without plastic sleeve) | 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |
| Flexible conductor cross-section (ferrule with plastic sleeve)    | 1 mm <sup>2</sup> ... 2.5 mm <sup>2</sup> |

### Signaling

|                |     |
|----------------|-----|
| Status display | yes |
|----------------|-----|

### Dimensions

|       |       |
|-------|-------|
| Width | 45 mm |
|-------|-------|

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|                    |         |
|--------------------|---------|
| Height             | 75 mm   |
| Depth              | 62.1 mm |
| Depth on NS 35/7,5 | 63 mm   |
| Depth on NS 35/15  | 70.5 mm |
| Hole diameter      | 4.4 mm  |

### Material specifications

|  |                 |
|--|-----------------|
| Color  | gray (RAL 7042) |
| Flammability rating according to UL 94                           | V0              |
| Insulating material  | PA              |
| Contact material   | CuZn38          |
| 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                              |
| Result                 | Test passed                                    |

#### 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.)   |
| Result                         | Test passed                         |

#### Ambient conditions

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|  |                  |
|--|------------------|
| Degree of protection                     | IP20             |
| Ambient temperature (operation)          | -45 °C ... 70 °C |
| Ambient temperature (storage/transport)  | -45 °C ... 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 |

## Mounting

|               |  |
|---------------|--|
| Mounting type | for mounting on a DIN rail in the service interface or direct mounting |
|---------------|--|

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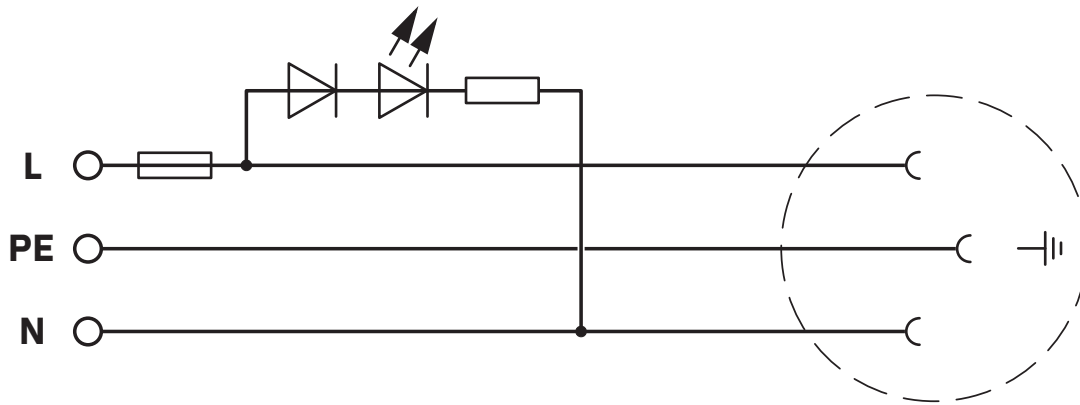
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## Drawings

Circuit diagram



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## Approvals

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|  <b>VDE Gutachten mit Fertigungsüberwachung</b><br>Approval ID: 40047713 |                       |                       |                   |                             |
|---|-----------------------|-----------------------|-------------------|-----------------------------|
|   | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $\text{mm}^2$ |
| keine   |                       |                       |                   |                             |
|   | 250 V                 | 16 A                  | -                 | -                           |

|  <b>EAC-RoHS</b><br>Approval ID: RU D-DE.HB49.B.00025 |  |
|--|--|
|--|--|

|  <b>EAC</b><br>Approval ID: KZ7500651131219505 |  |
|---|--|
|---|--|

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## Classifications

### ECLASS

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

### ETIM

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

### UNSPSC

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

## Environmental product compliance

### EU RoHS

|   |              |
|---|--------------|
| Fulfills EU RoHS substance requirements | Yes          |
| Exemption                               | 7(a), 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)                 |
| SCIP                                | 0c282dbf-58c7-452c-9359-6b72d89e59ad |

### EF3.1 Climate Change

|         |               |
|---------|---------------|
| CO2e kg | 1.511 kg CO2e |
|---------|---------------|

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