

# EO-G/UT/SH - Socket

0804051

<https://www.phoenixcontact.com/us/products/0804051>

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Socket, with extended touch protection/shutter, Pin connector pattern type G, connection method: Screw connection, color: gray, nom. voltage: 250 V AC (50 Hz), nominal current: 13 A, for mounting on a DIN rail in the service interface or direct mounting, standards/specifications: BS 1363-2, IEC 60884-1, Country marking: Great Britain

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 0804051       |
| Packing unit                         | 5 pc          |
| Minimum order quantity               | 5 pc          |
| Sales key                            | BE76          |
| Product key                          | BE7617        |
| GTIN                                 | 4055626225906 |
| Weight per piece (including packing) | 85.83 g       |
| Weight per piece (excluding packing) | 85.83 g       |
| Customs tariff number                | 85366990      |
| Country of origin                    | PL            |

## Technical data

### Notes

#### 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   | Great Britain |

### Connection data

|   |  |
|---|--|
| Connection method   | Screw connection                             |
| Screw thread  | M3   |
| Tightening torque   | 0.5 ... 0.6 Nm                               |
| Stripping length  | 8 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) | 0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>    |
| Nominal current   | 13 A   |
| Nominal voltage   | 250 V AC (50 Hz)                             |

### Signaling

|                |    |
|----------------|----|
| Status display | no |
|----------------|----|

### Dimensions

|                    |         |
|--------------------|---------|
| Width              | 45 mm   |
| Height             | 75 mm   |
| Depth              | 60 mm   |
| Depth on NS 35/7,5 | 60.8 mm |
| Depth on NS 35/15  | 68.3 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 G |
|--------------|------------------------------|

## 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

|  |  |
|--|--|
| Degree of protection                     | IP20   |
| Ambient temperature (operation)          | -45 °C ... 70 °C (max. operating temperature range including self-heating, see derating curve) |
| 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

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|                       |             |
|-----------------------|-------------|
| Standards/regulations | BS 1363-2   |
|                       | IEC 60884-1 |

## Mounting

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

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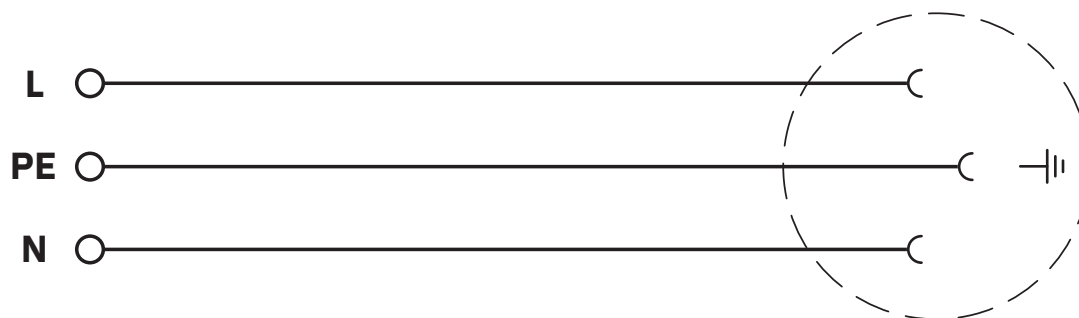
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## Drawings

Circuit diagram



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## Approvals

🔗 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/0804051>



**EAC-RoHS**

Approval ID: RU D-DE.HB49.B.00025



**EAC**

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 |
|-------------|----------|

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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 | 0.615 kg CO2e |
|---------|---------------|

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