# ES-FT-BPC-S 16-25 OG - Connector

1106303

https://www.phoenixcontact.com/us/products/1106303

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Connector, Range of articles: BPC, color: orange, number of positions: 1, min. conductor cross-section: 16 mm$^2$, max. conductor cross-section: 25 mm$^2$, rated voltage: 1500, rated current: 120 A, Connection method: Screw connection

## Your advantages

- Patented design, with 3 proofs and one rotation
- Mismatching and short circuit proof
- Touch-proof
- Foolproof mechanism installed
- 360° free rotation and flexible wiring
- Safety lock

## Commercial data

| | |
|---|---|
| Item number | 1106303 |
| Packing unit | 15 pc |
| Minimum order quantity | 1 pc |
| Sales key | AB04 |
| Product key | ABLDBA |
| GTIN | 4063151003494 |
| Weight per piece (including packing) | 29.707 g |
| Weight per piece (excluding packing) | 19.872 g |
| Customs tariff number | 85359000 |
| Country of origin | CN |

# Technical data

## Product properties

| | |
|---|---|
| Product type | Connectors for energy storage |
| Product family | BPC |
| Number of positions | 1 |

### Insulation characteristics

| | |
|---|---|
| Degree of pollution | 2 |

## Electrical properties

| | |
|---|---|
| Rated voltage (III/2) | 1500 V DC |
| Rated voltage | 1500 (III/2) in accordance with IEC 61984 |
| | 1000 in accordance with UL 4128 |
| Rated current | 120 A (with 25 mm² conductor cross-section, in accordance with IEC 61984) |
| | 76 A (with 16 mm² conductor cross-section, in accordance with IEC 61984) |
| | 120 A (with AWG 4, in accordance with UL 4128) |
| Contact resistance | ≤ 5 mΩ |
| Insulation resistance | 1000 MΩ |
| Nominal voltage $U_N$ | 1000 V (in accordance with UL 4128) |

## Connection data

| | |
|---|---|
| Tightening torque | 0.6 ... 0.6 Nm |

## Material specifications

| | |
|---|---|
| Color | orange |
| Material | Polyamide (Housing) |
| | Copper (Contact) |
| | Silicon (Seal) |
| Flammability rating according to UL 94 | V0 |

## Cable/line

| | |
|---|---|
| Cable structure | Tinned, stranded, IEC 60228 Class 6 compliant |
| Single wire, cross section | 16 mm² 25 mm² |
| AWG signal line | 4 |
| Cable pull-out force | ≥ 10 N |

## Mechanical properties

### Mechanical data

| | |
|---|---|
| Insertion/withdrawal cycles | 100 |
| Insertion force | ≤ 75 N |
| Withdrawal force | ≥ 10 N |

## Environmental and real-life conditions

Ambient conditions

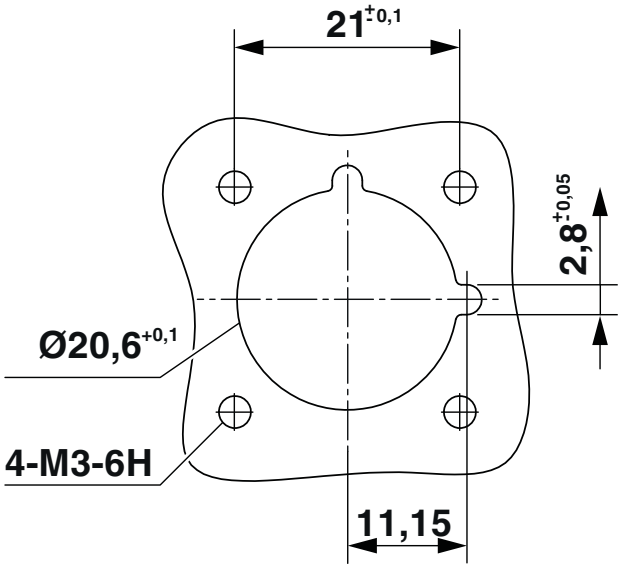
| | |
|---|---|
| Degree of protection (when plugged in) | IP65 (The panel is feed-through hole) |
| Degree of protection (not plugged in) | IP20 |
| Degree of protection | IP65 |
| Ambient temperature (operation) | -40 °C ... 70 °C |
| Ambient temperature (storage/transport) | -40 °C ... 70 °C |
| Altitude | 4000 m |

## Standards and regulations

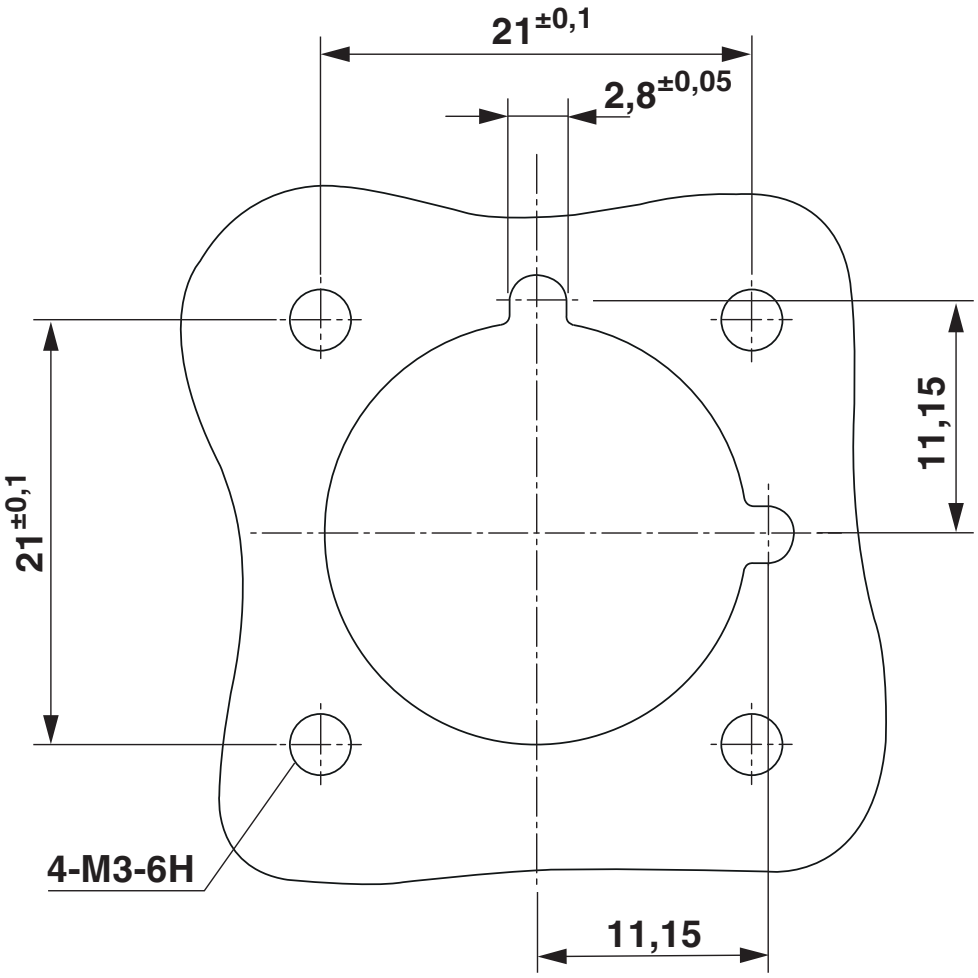
| | |
|---|---|
| Standard designation | TÜV (PPP51090A) |
| Standards/specifications | IEC 61984:2008 |
| | EN 61984:2008 |
| | UL 4128 |
| | PPP 51090A |

## Drawings

Dimensional drawing



Drilling plan/solder pad geometry



## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1106303

**TÜV SÜD Type tested**
Approval ID: 704071905102-03

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 1500 V | 120 A | - | 16 - 25 |

**UL Recognized**
Approval ID: E511681-20200609

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 1000 V | 120 A | - 4 | - |

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27440209 |
| ECLASS-15.0 | 27440209 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC002641 |

### UNSPSC

| | |
|---|---|
| UNSPSC 21.0 | 26121600 |

## 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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