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

1228824

https://www.phoenixcontact.com/us/products/1228824

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.

CRIMP



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: Crimp

## Your advantages

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

## Commercial data

| | |
|---|---|
| Item number | 1228824 |
| Packing unit | 15 pc |
| Minimum order quantity | 20 pc |
| Sales key | AB04 |
| Product key | ABLDBA |
| GTIN | 4063151324834 |
| Weight per piece (including packing) | 36.507 g |
| Weight per piece (excluding packing) | 21 g |
| Customs tariff number | 85359000 |
| Country of origin | CN |

## Technical data

### Notes

Safety note

| | |
|---|---|
| Safety note | • WARNING: Commission properly functioning products only. The products must be regularly inspected for damage. Decommission defective products immediately. Replace damaged products. Repairs are not possible. |
| | • WARNING: Only electrically qualified personnel may install and operate the product. They must observe the following safety notes. The qualified personnel must be familiar with the basics of electrical engineering. They must be able to recognize and prevent danger. The relevant symbol on the packaging indicates that only personnel familiar with electrical engineering are allowed to install and operate the product. |
| | WARNING: The connectors may not be plugged in or disconnected under load. Ignoring the warning or improper use may damage persons and/or property. |
| | • The products are suitable for applications in plant, controller, and electrical device engineering. |
| | • Assembled products may not be manipulated or improperly opened. |
| | • Only use mating connectors that are specified in the technical data of the standards listed (e.g. the ones listed in the product accessories online at phoenixcontact.com/products). |
| | • When using the product in direct connection with third-party manufacturers, the user is responsible. |
| | • For operating voltages > 50 V AC, conductive connector housings must be grounded |
| | • Ensure that the protective or functional ground has been properly connected. |
| | • Observe the corresponding technical data. You will find information:<br>o On the product<br>o On the packing label<br>o In the supplied documentation<br>o Online at phoenixcontact.com/products under the product |
| | • The installation notes/Design In documents online on the download page at phoenixcontact.com/products must be observed for this product. |
| | • Use a protective cap to protect connectors that are not in use. The suitable accessories are available online in the accessory section of the product at phoenixcontact.com/products |
| | • The connector warms up in normal operation. Depending on the ambient conditions, the surface of the connector can continue to warm up. In this case, the user is responsible for posting warnings (e.g. DIN EN ISO 13732-1:2008-12). |
| | • Operate the connector only when it is fully plugged in and interlocked. |
| | • Ensure that when laying the cable, the tensile load on the connectors does not exceed the upper limit specified in the standards. |

| | |
|---|---|
| | • Observe the minimum bending radius of the cable. Lay the cable without twisting it. |

## 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 |
| 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 |

## 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 |

## Standards and regulations

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

## Mounting

| | |
|---|---|
| Assembly note | We recommend to use the crimping dies and other crimping devices of Jiangsu Bozhiwang Automation Equipment Co., Ltd. for cable crimp connection; Address: No. 39 Kun Lun Road, Xin Bei District, Changzhou, Jiangsu Province, China, Email: bwgm2@wire-processor.com, die model: BZW-6F |

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1228824

**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 | 39121400 |

## 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% |


Phoenix Contact 2026 © - all rights reserved
https://www.phoenixcontact.com



Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com