# ES-C1F-C-CO1 - Connector

1231074

https://www.phoenixcontact.com/us/products/1231074

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: BPP, color: red/black, number of positions: 1, min. conductor cross-section: 2.5 $mm^2$, max. conductor cross-section: 6 $mm^2$, rated voltage: 1500 V DC, rated current: 27 A, Connection method: Crimp, min. cable diameter: 5 mm, max. cable diameter: 8 mm

## Commercial data

| | |
|---|---|
| Item number | 1231074 |
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | AB04 |
| Product key | ABLDBB |
| GTIN | 4063151331559 |
| Weight per piece (including packing) | 10.25 g |
| Weight per piece (excluding packing) | 10.22 g |
| Customs tariff number | 85359000 |
| Country of origin | IN |

# Technical data

## Product properties

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

### Insulation characteristics

| | |
|---|---|
| Protection class | II |
| Degree of pollution | 2 |

## Electrical properties

| | |
|---|---|
| Rated voltage (II/2) | 1500 V |
| Rated voltage (III/2) | 1500 V |
| Rated voltage | 1500 V DC in accordance with IEC 62852:2014/AMD1:2020 |
| Rated surge voltage | 16 kV |
| Rated surge voltage (III/3) | 16 kV |
| Rated current (2.5 mm²) | 27 A (in accordance with IEC 62852:2014/AMD1:2020) |
| Rated current (4.0 mm²) | 34 A (in accordance with IEC 62852:2014/AMD1:2020) |
| Rated current (6.0 mm²) | 40 A (in accordance with IEC 62852:2014/AMD1:2020) |
| Rated current (10 mm²) | 50 A (in accordance with IEC 62852:2014/AMD1:2020) |
| Contact resistance | ≤ 0.45 mΩ |
| Contact resistance | < 0.3 mΩ (Crimp to crimp) |

## Connection data

| | |
|---|---|
| Stripping length | 8 mm |

## Dimensions

| | |
|---|---|
| Width | 20 mm |
| Height | 20 mm |
| Length | 72.8 mm |

## Material specifications

| | |
|---|---|
| Color | red/black |
| Color of the housing part | black |
| Material Housing | PPE |
| Material Contact | Cu |
| Flammability rating according to UL 94 | V0 |
| Insulating material group | I |
| Insulating material | mPPE |
| Cable seal material | EPDM |
| Contact surface material | Ag |
| O-ring material | Silopren LSR 2660 |

## Cable/line

| | |
|---|---|
| External cable diameter | 5 mm ... 8 mm |
| External cable diameter | 5 mm ... 8 mm |
| Single wire, cross section | 2.5 mm² 6 mm² |
| Cable pull-out force | > 80 N |
| Halogen-free | yes |

## Mechanical properties

| | |
|---|---|
| Outside conductor diameter | 5.00 mm 8.00 mm |

### Mechanical data

| | |
|---|---|
| Outside conductor diameter | 5.00 mm 8.00 mm |
| Insertion/withdrawal cycles | 100 |
| Insertion force | 45 N ±10 N |
| Withdrawal force | 250 N ±50 N (when locked) |

## Environmental and real-life conditions

### Ambient conditions

| | |
|---|---|
| Degree of protection | IP20 (Not plugged in) |
| | IP66/IP68 (2 m / 2 h) (plugged in) |
| Ambient temperature (operation) | -40 °C ... 85 °C (dependent on the derating curve) |
| Ambient temperature (assembly) | -5 °C ... 50 °C |

## Standards and regulations

| | |
|---|---|
| Standards/specifications | IEC 62852/UL 6703 |

## Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1231074

**TÜV Rheinland**
Approval ID: R 60178082_0001

**UL Recognized**
Approval ID: E477377-20250305

| | Nominal voltage $U_N$ | Nominal current $I_N$ | Cross section AWG | Cross section $mm^2$ |
|---|---|---|---|---|
| keine | | | | |
| | 1500 V | 50 A | 14 - 10 | - |

## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27440107 |
| ECLASS-15.0 | 27440107 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | EC002635 |

### 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.) | Triphenyl phosphate(CAS: 115-86-6) |
| SCIP | ca4aa529-5e52-408c-af70-d06505e41168 |

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