

ES-BPC-C-40XO-OG-610-BK - Cable for energy storage units



1648071  
<https://www.phoenixcontact.com/us/products/1648071>

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Cable for energy storage units



Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1648071       |
| Packing unit                         | 1 pc          |
| Minimum order quantity               | 1 pc          |
| Sales key                            | AB04          |
| Product key                          | ABLDDA        |
| GTIN                                 | 4067923180215 |
| Weight per piece (including packing) | 1,036 g       |
| Weight per piece (excluding packing) | 1,007 g       |
| Customs tariff number                | 85446010      |
| Country of origin                    | US            |

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## Technical data

### Notes

#### Trade restriction

|         |                                                                                                |
|---------|------------------------------------------------------------------------------------------------|
| CE note | The products are offered exclusively for export outside the EU and the European Economic Area. |
|---------|------------------------------------------------------------------------------------------------|

### Product properties

|                |                               |
|----------------|-------------------------------|
| Product type   | Connectors for energy storage |
| Product family | BPC                           |

### Electrical properties

|                       |           |
|-----------------------|-----------|
| Rated voltage (III/2) | 1500.00 V |
| Rated voltage         | 1500 V    |
| Contact resistance    | < 0.5 mΩ  |

### Connector

#### Connection 1

|                                        |                          |
|----------------------------------------|--------------------------|
| Type                                   | Plug, angled, 1-position |
| Number of positions                    | 1                        |
| Insertion/withdrawal cycles            | 100                      |
| Insertion force                        | ≤ 75 N                   |
| Withdrawal force                       | ≥ 10 N                   |
| Insulation resistance                  | 1000 MΩ                  |
| Overvoltage category                   | III                      |
| Degree of pollution                    | 2                        |
| Material Grip body                     | PA                       |
| Material Seal                          | Silicon                  |
| Material Contact                       | Cu alloy                 |
| Material Contact surface               | Ni/Ag                    |
| Material Contact carrier               | Polyamide                |
| Color (Housing)                        | orange                   |
| Flammability rating according to UL 94 | V0                       |
| Degree of protection                   | IP65<br>IP20             |
| Ambient temperature (operation)        | -40 °C ... 80 °C         |
| Standards/regulations                  | IEC 61984:2008           |

#### Connection 2

|                             |                          |
|-----------------------------|--------------------------|
| Type                        | Plug, angled, 1-position |
| Number of positions         | 1                        |
| Insertion/withdrawal cycles | 100                      |
| Insertion force             | ≤ 75 N                   |

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|                                        |                  |
|----------------------------------------|------------------|
| Withdrawal force                       | ≥ 10 N           |
| Insulation resistance                  | 1000 MΩ          |
| Overvoltage category                   | III              |
| Degree of pollution                    | 2                |
| Material Grip body                     | PA               |
| Material Seal                          | Silicon          |
| Material Contact                       | Cu alloy         |
| Material Contact surface               | Ni/Ag            |
| Material Contact carrier               | Polyamide        |
| Color (Housing)                        | black            |
| Flammability rating according to UL 94 | V0               |
| Degree of protection                   | IP65             |
|                                        | IP20             |
| Ambient temperature (operation)        | -40 °C ... 80 °C |
| Standards/regulations                  | IEC 61984:2008   |

## Cable/line

|                                             |                          |
|---------------------------------------------|--------------------------|
| Cable length                                | 61.00 cm                 |
| Cable weight                                | 1173 kg/km               |
| UL AWM Style                                | RHH-RHW-2                |
| Number of positions                         | 1                        |
| Shielded                                    | no                       |
| Conductor cross section                     | 107 mm <sup>2</sup>      |
| External cable diameter                     | 18.80 mm                 |
| Outer sheath, material                      | XLPE                     |
| External sheath, color                      | orange                   |
| Conductor material                          | Copper                   |
| Thickness, insulation                       | 2.29 mm                  |
| Max. conductor resistance                   | 0.1739 Ω/m (DC, at 25°C) |
|                                             | 0.22 Ω/m (AC, at 90°C)   |
| Nominal voltage, cable                      | 2000 V                   |
| Smallest bending radius, fixed installation | 147.32 mm                |
| Halogen-free                                | yes                      |
| Flame resistance                            | UL 1685                  |
| Resistance to oil                           | yes                      |

## Environmental and real-life conditions

### Ambient conditions

|                                         |                   |
|-----------------------------------------|-------------------|
| Ambient temperature (storage/transport) | -40 °C ... 125 °C |
|-----------------------------------------|-------------------|

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## Approvals

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**UL Recognized**

Approval ID: UL-US-2431264

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27440390 |
|-------------|----------|

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC004746 |
|----------|----------|

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## Environmental product compliance

|                                         |                                                       |
|-----------------------------------------|-------------------------------------------------------|
| EU RoHS                                 |                                                       |
| Fulfills EU RoHS substance requirements | Not applicable, Not qualified for the European market |
| EU REACH SVHC                           |                                                       |
| REACH candidate substance (CAS No.)     | No substance above 0.1 wt%                            |

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