**EPIC® H-BE 16 SS DR**

**Article No.:** 10194000

Insert with screw connection Pin; Number of contacts: 16+PE; Design size: 16B; 500 V AC rms / DC according to IEC; 16 A according to UL/CSA; For cross-section (min./max.): 0.5 $mm^2$ - 2.5$mm^2$; Contacts included; Polycarbonate







## Details

### Benefits

- Inserts from the EPIC® H-BE series are regarded as classics in industry and are ideal for use at higher voltages and currents.
- In the EPIC® H-BE series, inserts of different connection types can be combined with one another (screw, crimp, cage spring or push-in) within the same size.
- Easy to service screw connection enables assembly without special tools.
- Made of robust polycarbonate (flammability class V-0 according to the UL94 testing procedure for the flammability of plastics).
- Can be used in railway vehicles in accordance with standards for selected articles (reaction to fire test in accordance with DIN EN 45545-2:2016-02, requirement sets R22 and R23, hazard levels HL1, HL2 and HL3).
- UL certification according to technical data enables the product to be used on the North American market.
- Also certified to UL 508 A/ UL 2237 for applications in control cabinets (depending on article).
- Available with or without wire protection. The wire protection enables stranded wires without conductor end sleeves to be connected directly.
- Wide variety of suitable housing variants.

### Application

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- For connecting devices and machines to a power supply in various applications
- Suitable for wiring inside control cabinets.
- For transmission of control signals to actuators.
- Typical applications include platform, lighting and lifting technology.

**Notes**

Unless specified otherwise, the product values shown are rated values at room temperature. You can receive additional values, such as tolerances, upon request if they are available and have been released for publication.

Photographs and graphics are not to scale and do not represent detailed images of the respective products.

If applicable, the prices are solid metal prices without additional charges and VAT. Sales only to business customers.

**Remarks**

## Technical Data

**General information**

| | |
|---|---|
| Brand | EPIC® |
| Product type | Insert with screw connection |
| Product series | RECTANGULAR |
| Design size | 16B |
| Scope of delivery | including contacts |
| Contacts included | Yes |
| Delivery Unit | 5 |
| Industry segment | Rolling Stock |
| customs code | 8536698000 |

**Electrical parameters**

| | |
|---|---|
| Rated surge voltage | 6 kV AC rms / DC according to IEC 61984 |
| Rated voltage | 500 V AC rms / DC according to IEC<br>600 V AC rms / DC according to UL<br>600 V AC rms / DC according to CSA |
| Rated current | 16 A according to UL/CSA<br>16 A according to IEC |

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| | |
|---|---|
| Overvoltage category | III |
| Protective conductor integrated into insert | Yes |

**Product design**

| | |
|---|---|
| Number of contacts | 16+PE |
| Number of power contacts | 16 |
| Number of PE contacts | 1 |
| Number of signal contacts | 0 |
| Contact diameter | 0.098 in |
| Contact variant | Pin |
| Contact manufacturing method | Machined |
| Contact insert type | Plug |
| With wire protection | Yes |
| With protective conductor | Yes |
| Connector type | Plug |
| Contact insert without contacts | No |
| EMC shielding | No |
| Connection type conductor | Screw connection |
| PE connection type | Screw connection |
| Connectable conductor cross section min. (AWG) | 20 AWG |
| Max. connectable conductor cross-section AWG | 14 AWG |
| Min. connectable conductor cross-section (mm2) (in2) | 0.5 $mm^2$ |
| Max. connectable conductor cross-section (mm2) (in2) | 2.5 $mm^2$ |
| Material contact | Brass |
| Contact material, short form | CuZn |
| Contact coating material | Silver-plated |
| Contact coating material, short form | Ag |
| Contact insert material | Polycarbonate |
| Material contact insert shortname | PC |
| Colour description | gray |

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**Product features**

| | |
|---|---|
| Min. number of insertion cycles | 500 |
| Pollution degree | 3 |
| Suitable for EX-applications | No |
| Short-term temperature peaks | 125 °C |
| Operating temperature min. | -40 °C |
| Operating temperature max. | 100 °C |
| Flame-retardant | Yes |
| Flame retardance according to | UL 94 V-0 |
| UV-resistant | No |
| Chemical resistant | No |
| Acid-resistant | No |
| Halogenfree | Yes |
| Minimum torque setting for PE connection | 1.2 Nm |
| Maximum torque setting for PE connection | 1.2 Nm |
| Impact proof | Yes |
| Vibration protection | No |

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| Certifications and standards | |
|---|---|
| CE marking | Yes |
| EAC certified | Not required |
| EAC certification number | Отказное письмо № 39 |
| UR recognized | Yes |
| UR certification | according to UL 1977 (e-file number: E75770)<br>according to UL 2237 (e-file number: E483837) |
| UL category control number | ECBT2 |
| cUR recognized | Yes |
| cUR certification | according to CSA C22.2 No. 182.3 (e-file number: E75770) |
| cUR category control number | ECBT8 |
| CSA certified | No |
| VDE certified | Yes |
| VDE registration number | B437 |
| Product standard according to IEC | IEC 61984 |
| TÜV certified | No |
| Tested for fire protection for railway vehicles | Yes |
| Fire protection for railway vehicles hazard level | EN 45545-2 HL1<br>EN 45545-2 HL2<br>EN 45545-2 HL3 |

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## EPIC® H-BE 16 Screw termination

| Article No. | Name | Number of contacts | Contact insert type | With wire protection | Delivery Unit | Product series |
|---|---|---|---|---|---|---|
| 10194000 | EPIC® H-BE 16 SS DR | 16+PE | Plug | Yes | 5 | RECTANGULAR |
| 10194100 | EPIC® H-BE 16 SS | 16+PE | Plug | No | 5 | RECTANGULAR |
| 10195000 | EPIC® H-BE 16 BS DR | 16+PE | Socket | Yes | 5 | RECTANGULAR |
| 10195100 | EPIC® H-BE 16 BS | 16+PE | Socket | No | 5 | RECTANGULAR |
| 381166830 | EPIC® H-BE 016 FS | 16+PE | Socket | Yes | 1 | HDC |
| 381166831 | EPIC® H-BE 016 MS | 16+PE | Plug | Yes | 1 | HDC |

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