

https://www.phoenixcontact.com/au/products/2703019



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Patch panel, RJ45 jack on IDC terminal blocks, CAT6, 10/100/1000 Mbps, DIN rail adapter, IP20, shield contacting with strain relief

Product description

Ethernet patch panels enable quick and easy connection between the field cabling and control cabinet cabling. The passive termination panels are a convenient alternative to the on-site assembly of RJ45 connectors. The IDC fast connection terminal blocks enable tool-free connection without stripping the single-core wires. The terminal blocks with inserted wires are simply pressed shut by hand. Observe the permissible single-core wire diameter and the permissible insulation material.

Your advantages

- Extended temperature range of -40 °C ... +75 °C
- Fast connection of the field cable
- · Wiring space covered with front panel cover
- · Tool-free shield contacting with strain relief
- · Shipbuilding approval in accordance with DNV GL
- PoE-capable in accordance with IEEE 802.3bt, type 4

Commercial data

| Item number | 2703019 |
|--------------------------------------|---------------------|
| Packing unit | 10 pc |
| Minimum order quantity | 1 pc |
| Sales key | DNC334 |
| Product key | DNC334 |
| Catalog page | Page 361 (C-6-2019) |
| GTIN | 4055626462899 |
| Weight per piece (including packing) | 64.3 g |
| Weight per piece (excluding packing) | 57.3 g |
| Customs tariff number | 85369010 |
| Country of origin | DE |



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Technical data

Notes

| Note on application | |
|-------------------------|---|
| Note on application | Only for industrial use |
| Utilization restriction | |
| CCCex note | Use in potentially explosive areas is not permitted in China. |

Product properties

| Product type | Patch panel |
|----------------------------|--------------|
| MTTF | 105699 Years |
| Insulation characteristics | |
| Overvoltage category | II |
| | |

Electrical properties

| Maximum power dissipation for nominal condition | 0 W (passive module, no supply voltage required) |
|---|--|
| Rated insulation voltage | 85 V DC (In accordance with EN/IEC 60079-7, Annex H) |

Interfaces

Data: Ethernet interface, 10/100/1000Base-T(X) in accordance with IEEE 802.3

| Frequency range Connection method IDC connection Note on the connection method CAT6 Pin assignment 1:1 Transmission length Single conductor/terminal point, rigid Nax. AWG conductor cross section, flexible Single-wire/terminal point, rigid AWG max. Single-wire/terminal point, rigid AWG min. Wire diameter incl. insulation Frequency of connections between conductors of the same cross section Transmission medium Copper Output nominal voltage Maximum output current Dinc connection CAT6 Lin (CAT6 CAT6 CATC CATC CATC CATC CATC CATC CATC CATA CATC CATC | Serial transmission speed | 10/100/1000 Mbps |
|---|--|--------------------------------|
| Note on the connection method Pin assignment 1:1 Transmission length 100 m (including patch cables) Single conductor/terminal point, rigid 0.14 mm² 0.34 mm² Single-wire/terminal point, flexible 0.14 mm² 0.34 mm² Max. AWG conductor cross section, flexible 22 Min. AWG conductor cross section, flexible 26 Single-wire/terminal point, rigid AWG max. 22 Single-wire/terminal point, rigid AWG min. 26 Wire diameter incl. insulation 1.6 mm (Terminal block is tested with PVC insulation - other insulation materials available on request) Frequency of connections between conductors of the same cross section Transmission medium Copper Output nominal voltage 4 57 V DC Maximum output power 60 W | Frequency range | 250 MHz |
| Pin assignment Transmission length 100 m (including patch cables) Single conductor/terminal point, rigid 0.14 mm² 0.34 mm² Single-wire/terminal point, flexible 0.14 mm² 0.34 mm² Max. AWG conductor cross section, flexible 22 Min. AWG conductor cross section, flexible 26 Single-wire/terminal point, rigid AWG max. 22 Single-wire/terminal point, rigid AWG min. Wire diameter incl. insulation 1.6 mm (Terminal block is tested with PVC insulation - other insulation materials available on request) Frequency of connections between conductors of the same cross section Transmission medium Copper Output nominal voltage Maximum output power 60 W | Connection method | IDC connection |
| Transmission length 100 m (including patch cables) Single conductor/terminal point, rigid 0.14 mm² 0.34 mm² Single-wire/terminal point, flexible 0.14 mm² 0.34 mm² Max. AWG conductor cross section, flexible 22 Min. AWG conductor cross section, flexible 26 Single-wire/terminal point, rigid AWG max. 22 Single-wire/terminal point, rigid AWG min. 26 Wire diameter incl. insulation 1.6 mm (Terminal block is tested with PVC insulation - other insulation materials available on request) Frequency of connections between conductors of the same cross section Transmission medium Copper Output nominal voltage Maximum output power 60 W | Note on the connection method | CAT6 |
| Single conductor/terminal point, rigid 0.14 mm² 0.34 mm² Single-wire/terminal point, flexible 0.14 mm² 0.34 mm² Max. AWG conductor cross section, flexible 22 Min. AWG conductor cross section, flexible 26 Single-wire/terminal point, rigid AWG max. 22 Single-wire/terminal point, rigid AWG min. 26 Wire diameter incl. insulation 1.6 mm (Terminal block is tested with PVC insulation - other insulation materials available on request) Frequency of connections between conductors of the same cross section Transmission medium Copper Output nominal voltage Assimum output power 60 W | Pin assignment | 1:1 |
| Single-wire/terminal point, flexible Max. AWG conductor cross section, flexible Min. AWG conductor cross section, flexible Single-wire/terminal point, rigid AWG max. Single-wire/terminal point, rigid AWG min. Wire diameter incl. insulation 1.6 mm (Terminal block is tested with PVC insulation - other insulation materials available on request) Frequency of connections between conductors of the same cross section Transmission medium Copper Output nominal voltage Assimum output power Output power Output power | Transmission length | 100 m (including patch cables) |
| Max. AWG conductor cross section, flexible Min. AWG conductor cross section, flexible Single-wire/terminal point, rigid AWG max. Single-wire/terminal point, rigid AWG min. Wire diameter incl. insulation 1.6 mm (Terminal block is tested with PVC insulation - other insulation materials available on request) Frequency of connections between conductors of the same cross section Transmission medium Copper Output nominal voltage Aximum output power 60 W | Single conductor/terminal point, rigid | 0.14 mm² 0.34 mm² |
| Min. AWG conductor cross section, flexible Single-wire/terminal point, rigid AWG max. Single-wire/terminal point, rigid AWG min. 26 Wire diameter incl. insulation 1.6 mm (Terminal block is tested with PVC insulation - other insulation materials available on request) Frequency of connections between conductors of the same cross section Transmission medium Copper Output nominal voltage < 57 V DC Maximum output power 60 W | Single-wire/terminal point, flexible | 0.14 mm² 0.34 mm² |
| Single-wire/terminal point, rigid AWG max. 26 Wire diameter incl. insulation 1.6 mm (Terminal block is tested with PVC insulation - other insulation materials available on request) Frequency of connections between conductors of the same cross section Transmission medium Copper Output nominal voltage 457 V DC Maximum output power 60 W | Max. AWG conductor cross section, flexible | 22 |
| Single-wire/terminal point, rigid AWG min. 26 Wire diameter incl. insulation 1.6 mm (Terminal block is tested with PVC insulation - other insulation materials available on request) Frequency of connections between conductors of the same cross section Transmission medium Copper Output nominal voltage < 57 V DC Maximum output power 60 W | Min. AWG conductor cross section, flexible | 26 |
| Wire diameter incl. insulation 1.6 mm (Terminal block is tested with PVC insulation - other insulation materials available on request) Frequency of connections between conductors of the same cross section Transmission medium Copper Output nominal voltage < 57 V DC Maximum output power 60 W | Single-wire/terminal point, rigid AWG max. | 22 |
| insulation materials available on request) Frequency of connections between conductors of the same cross section Transmission medium Copper Output nominal voltage < 57 V DC Maximum output power 60 W | Single-wire/terminal point, rigid AWG min. | 26 |
| section Transmission medium Copper Output nominal voltage < 57 V DC Maximum output power 60 W | Wire diameter incl. insulation | |
| Output nominal voltage < 57 V DC Maximum output power 60 W | | 10 |
| Maximum output power 60 W | Transmission medium | Copper |
| | Output nominal voltage | < 57 V DC |
| Maximum output current 725 mA (Per channel) | Maximum output power | 60 W |
| | Maximum output current | 725 mA (Per channel) |



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Data: Ethernet interface, 10/100/1000Base-T(X) in accordance with IEEE 802.3

| Connection method RJ45 jack | |
|-----------------------------|--|
|-----------------------------|--|

Dimensions

| Dimensional drawing | 62.7 85.2 |
|---------------------|--------------|
| Width | 23.8 mm |
| Height | 101.3 mm |
| Depth | 50 mm |

Material specifications

| Color (Housing) | light gray (RAL 7035) |
|--|-----------------------|
| Material (Housing) | Plastic |
| Flammability rating according to UL 94 | V0 |

Cable/line

| External cable diameter 5.5 mm 6.5 mm | |
|---------------------------------------|--|
|---------------------------------------|--|

Mechanical tests

| Vibration resistance in accordance with EN 60068-2-6/IEC 60068-2-6 | : 10 Hz 57 Hz, amplitude ±3.5 mm, 57 Hz 150 Hz, 5g |
|--|---|
| Shock in accordance with EN 60068-2-27/IEC 60068-2-27 | : 30g for 11 ms, three shocks in each spatial direction |
| Continuous shock in accordance with EN 60068-2-27/IEC 60068-2-27 | : 10g for 16 ms, 1000 shocks in each spatial direction |

Environmental and real-life conditions

Ambient conditions

| Degree of protection | IP20 (Manufacturer's declaration) |
|---|---|
| Ambient temperature (operation) | -40 °C 75 °C |
| Ambient temperature (storage/transport) | -40 °C 85 °C |
| Altitude | \leq 5000 m (For restrictions, see the manufacturer's declaration for altitude operation) |
| | ≤ 2000 m (Restrictions for ATEX applications) |
| Permissible humidity (operation) | 10 % 95 % (non-condensing) |

Approvals

CE

| Certificate | CE-compliant |
|-------------|--------------|



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| Certificate PxCIF18ATEX2703015U Note Please follow the special installation instructions in the documentation! KEX Identification © II 3 G Ex ec IIC Gc Certificate PxCIMA22UKEX2703015U ., USA Certificate UL 60079-0 Ed. 6 / UL 60079-15 Ed. 4 ., Canada Certificate CSA 22.2 No. 60079-0 Ed. 3 / CSA 22.2 No. 60079-15:16 prosive gas test Identification ISA-S71.04-1985 G3 Harsh Group A pipbuilding Identification DNV GL Temperature D Humidity B EMC B PxCIF18ATEX2703015U Please follow the special installation instructions in the documentation! PROSITE SPECIAL S | Identification | |
|--|--------------------|--|
| Please follow the special installation instructions in the documentation! KEX Identification © II 3 G Ex ec IIC Gc Certificate PxCIMA22UKEX2703015U L, USA Certificate UL 60079-0 Ed. 6 / UL 60079-15 Ed. 4 L, Canada Certificate CSA 22.2 No. 60079-0 Ed. 3 / CSA 22.2 No. 60079-15:16 corrosive gas test Identification ISA-S71.04-1985 G3 Harsh Group A hipbuilding Identification DNV GL hipbuilding data Temperature D Humidity B Vibration B EMC B UIN rail mounting, stationary The product can be snapped onto all 35 mm DIN rails in | | |
| Il 3 G Ex ec IIC Gc | | Please follow the special installation instructions in the |
| Certificate PxCIMA22UKEX2703015U JL, USA Certificate UL 60079-0 Ed. 6 / UL 60079-15 Ed. 4 JL, Canada Certificate CSA 22.2 No. 60079-0 Ed. 3 / CSA 22.2 No. 60079-15:16 Corrosive gas test Identification ISA-S71.04-1985 G3 Harsh Group A Shipbuilding Identification DNV GL Shipbuilding data Temperature D Humidity B Vibration B EMC B UNITING Mounting type DIN rail mounting, stationary Assembly note The product can be snapped onto all 35 mm DIN rails in | JKEX | |
| Certificate UL 60079-0 Ed. 6 / UL 60079-15 Ed. 4 UL, Canada Certificate CSA 22.2 No. 60079-0 Ed. 3 / CSA 22.2 No. 60079-15:16 Corrosive gas test Identification ISA-S71.04-1985 G3 Harsh Group A Shipbuilding Identification DNV GL Shipbuilding data Temperature D Humidity B Vibration B EMC B ON | Identification | |
| Certificate CSA 22.2 No. 60079-0 Ed. 3 / CSA 22.2 No. 60079-15:16 Corrosive gas test Identification ISA-S71.04-1985 G3 Harsh Group A Shipbuilding Identification DNV GL Shipbuilding data Temperature D Humidity B Vibration B EMC B Mounting type DIN rail mounting, stationary Assembly note Temperatore ID No Residence of the product can be snapped onto all 35 mm DIN rails in | Certificate | PxCIMA22UKEX2703015U |
| Certificate CSA 22.2 No. 60079-0 Ed. 3 / CSA 22.2 No. 60079-15:16 Corrosive gas test Identification ISA-S71.04-1985 G3 Harsh Group A Shipbuilding Identification DNV GL Shipbuilding data Temperature D Humidity B Vibration B EMC B Mounting type DIN rail mounting, stationary Assembly note The product can be snapped onto all 35 mm DIN rails in | JL, USA | |
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| Corrosive gas test Identification ISA-S71.04-1985 G3 Harsh Group A Shipbuilding Identification DNV GL Shipbuilding data Temperature D Humidity B Vibration B EMC B Mounting type DIN rail mounting, stationary Assembly note The product can be snapped onto all 35 mm DIN rails in | | CSA 22.2 No. 60079-0 Ed. 3 / CSA 22.2 No. 60079-15:16 |
| Identification ISA-S71.04-1985 G3 Harsh Group A Shipbuilding Identification DNV GL Shipbuilding data Temperature D Humidity B Vibration B EMC B Sunting Mounting type DIN rail mounting, stationary The product can be snapped onto all 35 mm DIN rails in | | |
| Shipbuilding Identification DNV GL Shipbuilding data Temperature D Humidity B Vibration B EMC B Mounting Mounting type DIN rail mounting, stationary Assembly note The product can be snapped onto all 35 mm DIN rails in | Corrosive gas test | |
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| Temperature D Humidity B Vibration B EMC B Mounting Mounting type DIN rail mounting, stationary Assembly note The product can be snapped onto all 35 mm DIN rails in | Shipbuilding | |
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| Vibration B EMC B ounting Mounting type DIN rail mounting, stationary Assembly note The product can be snapped onto all 35 mm DIN rails in | Temperature | D |
| EMC B ounting Mounting type DIN rail mounting, stationary Assembly note The product can be snapped onto all 35 mm DIN rails in | Humidity | В |
| Mounting bunding type Mounting type DIN rail mounting, stationary Assembly note The product can be snapped onto all 35 mm DIN rails in | Vibration | В |
| Mounting type DIN rail mounting, stationary Assembly note The product can be snapped onto all 35 mm DIN rails in | EMC | В |
| Assembly note The product can be snapped onto all 35 mm DIN rails in | ounting | |
| | Mounting type | DIN rail mounting, stationary |
| | Assembly note | |

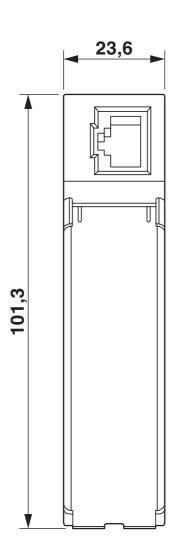
2703019

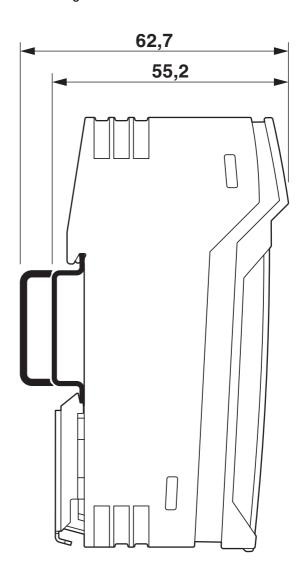
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Drawings

Dimensional drawing





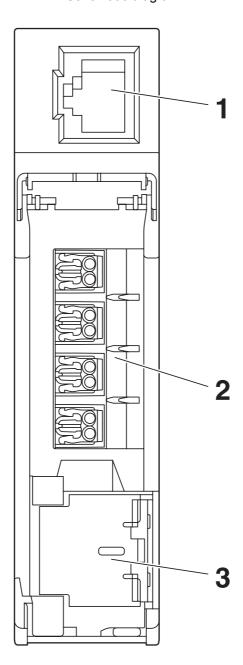
Compact housing

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Schematic diagram



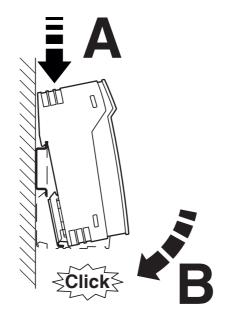
Front view

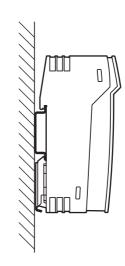


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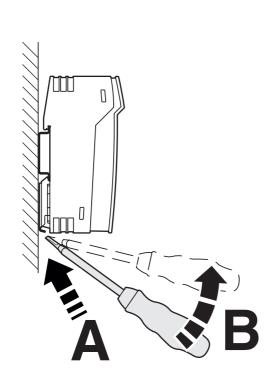
Schematic diagram

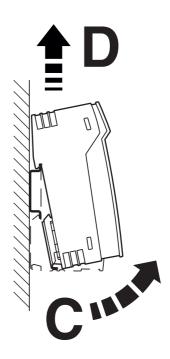




Mounting on a DIN rail

Schematic diagram





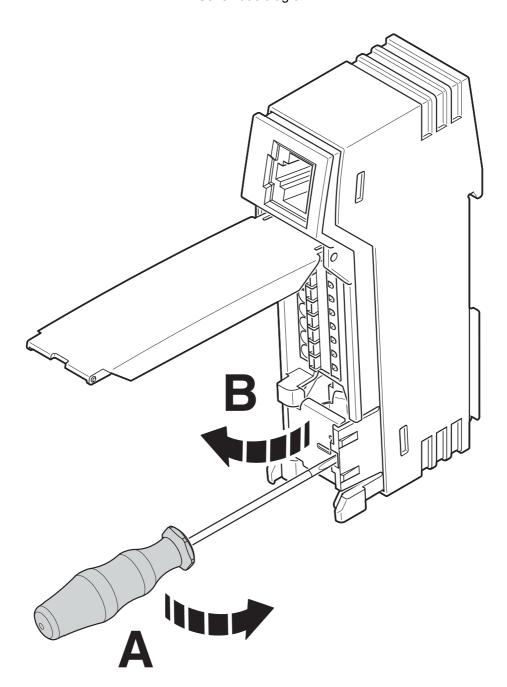
Removal

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Schematic diagram



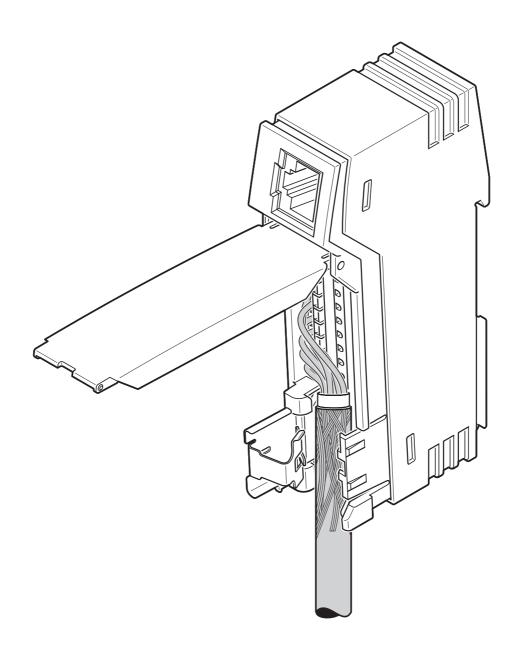
Open shield contact spring

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Schematic diagram



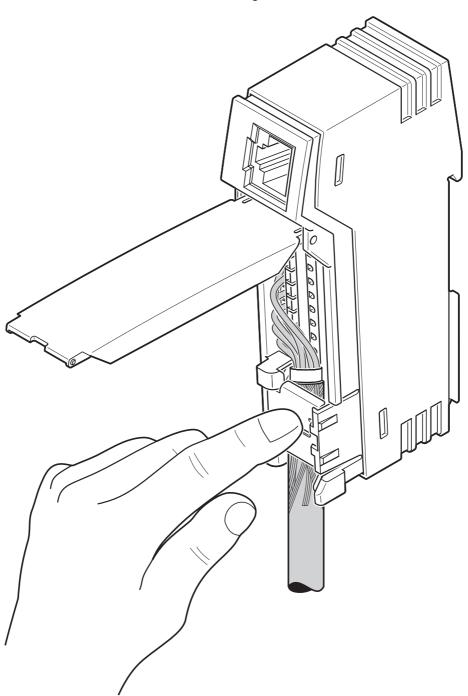
Inserting the cable

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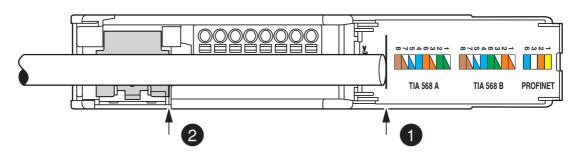
Close shield contact spring

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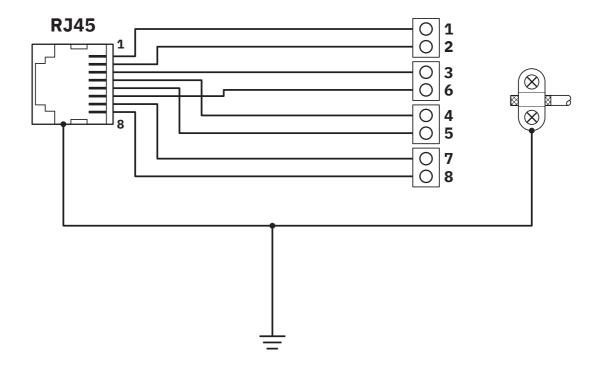


Schematic diagram



Stripping length

Circuit diagram





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Approvals

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DNV GL

Approval ID: TAA00001KR



UL Listed

Approval ID: E238705



cUL Listed

Approval ID: E238705



cUL Listed

Approval ID: E366272



UL Listed

Approval ID: E366272



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Classifications

UNSPSC 21.0

| _ | \sim | $\Lambda \cap \cap$ |
|---|--------|---------------------|
| | | |
| | | A.7.7 |

| | ECLASS-13.0 | 19170112 | | | | |
|--------|-------------|----------|--|--|--|--|
| ΕΊ | ETIM | | | | | |
| | ETIM 9.0 | EC001128 | | | | |
| UNSPSC | | | | | | |

43223300



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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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