

RAD-ISM-2400-ANT-OMNI-6-0 - Antenna



2885919

<https://www.phoenixcontact.com/us/products/2885919>

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Omnidirectional antenna for wall or mast mounting, 2.4 GHz, gain: 6 dBi, degree of protection: IP67, saltwater-resistant, shock- and vibration-resistant, connection: N (female), incl. mounting bracket and mast clamps, ATEX and IECEx approval



Your advantages

- Ideally suited for stationary 2.4 GHz applications
- For use in potentially explosive areas
- Salt water resistant

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 2885919 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DN23 |
| Product key | DNN2Z1 |
| GTIN | 4046356146319 |
| Weight per piece (including packing) | 394.7 g |
| Weight per piece (excluding packing) | 388.7 g |
| Customs tariff number | 85177100 |
| Country of origin | PL |

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 | Antenna |
| Scope of supply | included mounting bracket and mast clamps |
| Radiation characteristics | Omnidirectional |
| Gain | 6 dBi |
| Vertical beamwidth | 30 ° |
| Horizontal beamwidth | 360 ° |
| Polarization | Linear vertical |

Electrical properties

| | |
|---|---------------------|
| Frequency band | 2.4 GHz |
| Frequency range | 2.4 GHz ... 2.5 GHz |
| Impedance | 50 Ω |
| Maximum capacity | 25.00 W |
| Voltage standing wave ratio VSWR in a 50 Ω system | ≤ 1.80 |

Connection data

Connection technology

| | |
|-------------------|-------------------------|
| Connection method | N (female) |
| Outside diameter | 25 mm ... 100 mm (Mast) |

Ex data

Safety data

| | |
|---------------------------------|--|
| Input voltage U_i | max. 30 V |
| Input current I_i | max. 600 mA |
| Input power P_i | 0.5 W (Maximum HF input power, 27 dBm, group IIC) |
| | 0.87 W (Maximum HF input power, 29.4 dBm, group IIB) |
| | 1.47 W (Maximum HF input power, 31.7 dBm, group IIA) |
| Max. internal inductance L_i | negligible |
| Max. internal capacitance C_i | negligible |

Dimensions

| | |
|----------|--------|
| Height | 250 mm |
| Diameter | 22 mm |

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External dimensions

| | |
|------------------|-------------------------|
| Outside diameter | 25 mm ... 100 mm (Mast) |
|------------------|-------------------------|

Material specifications

| | |
|--|-----------------------------|
| Color | gray white (RAL 9002) |
| Material (Radom) | PC (glass-fiber reinforced) |
| Material (Holder) | Stainless steel V2A |
| Material (Mast clamp) | Stainless steel V2A |
| Flammability rating according to UL 94 | HB |

Cable/line

| | |
|------------------|----------------------|
| Connecting cable | no |
| Other resistance | salt water resistant |

Environmental and real-life conditions

Ambient conditions

| | |
|---|--------------------|
| Degree of protection | IP67 |
| Ambient temperature (operation) | -40 °C ... 75 °C |
| Ambient temperature (storage/transport) | -40 °C ... 75 °C |
| Air pressure (operation) | 80 kPa ... 110 kPa |
| Wind velocity | 220 km/h |

Approvals

CE

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

ATEX

| | |
|----------------|---|
| Identification | ⊕ II 1G Ex ia IIC T6 Ga |
| Certificate | IBExU14ATEX1116 X |
| Note | Please follow the special installation instructions in the documentation! |

IECEX

| | |
|----------------|--------------------|
| Identification | Ex ia IIC T6 Ga |
| Certificate | IECEX IBE 14.0039X |

Electronic devices in rail vehicles

| | |
|-----------------------|---------------------------|
| Shock (operation) | IEC 60721-3-4, 4M5 |
| Vibration (operation) | IEC 60721-3-4, 4M5 Random |

Standards and regulations

| | |
|--------------------------|----------------------|
| Other resistance | salt water resistant |
| Standards/specifications | EN 60079-0 |
| | EN 60079-11 |
| | EN 60079-26 |

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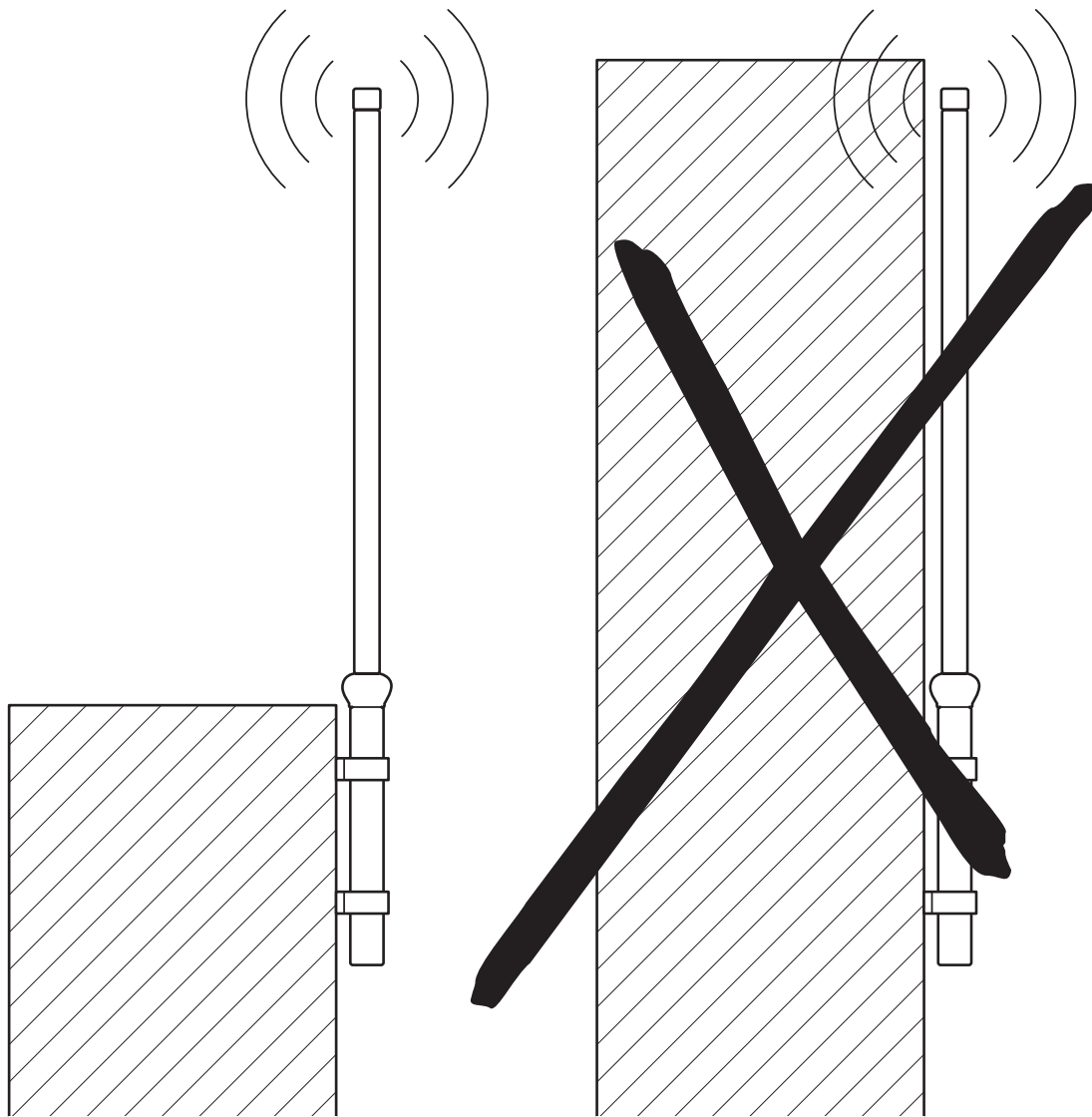
<https://www.phoenixcontact.com/us/products/2885919>

Mounting

| | |
|---------------|----------------------|
| Mounting type | Panel mounting |
| | Mast mounting |
| Assembly note | Outdoors and indoors |

Drawings

Schematic diagram



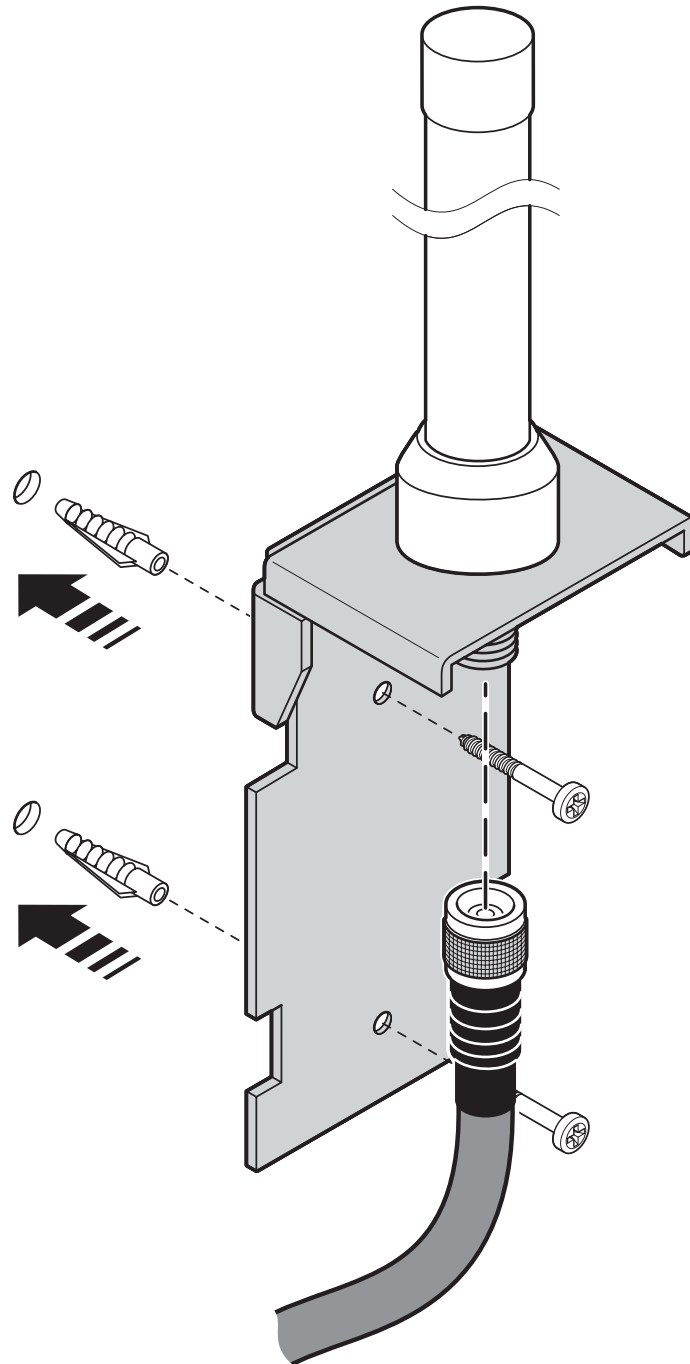
Panel mounting

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Schematic diagram



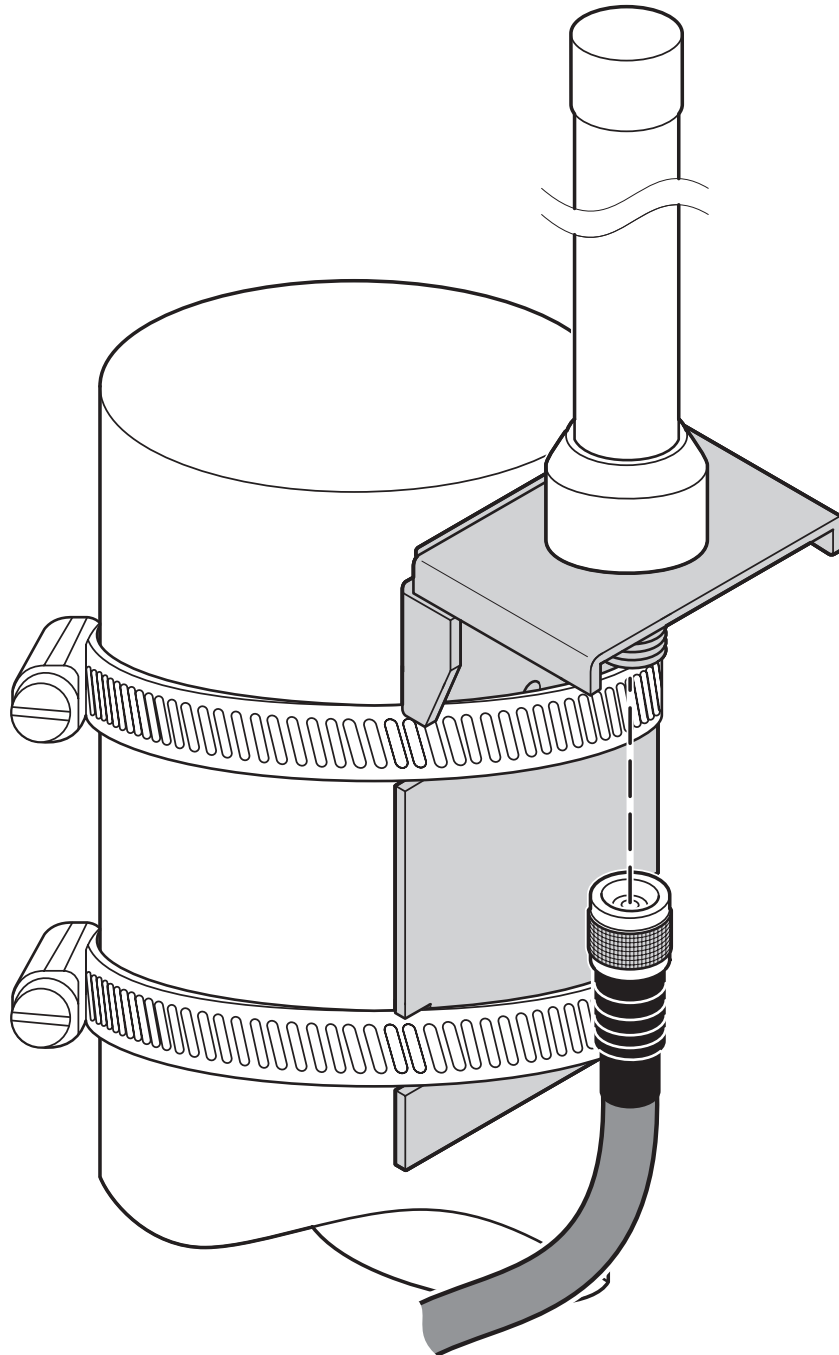
Panel mounting

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Schematic diagram



Mast mounting

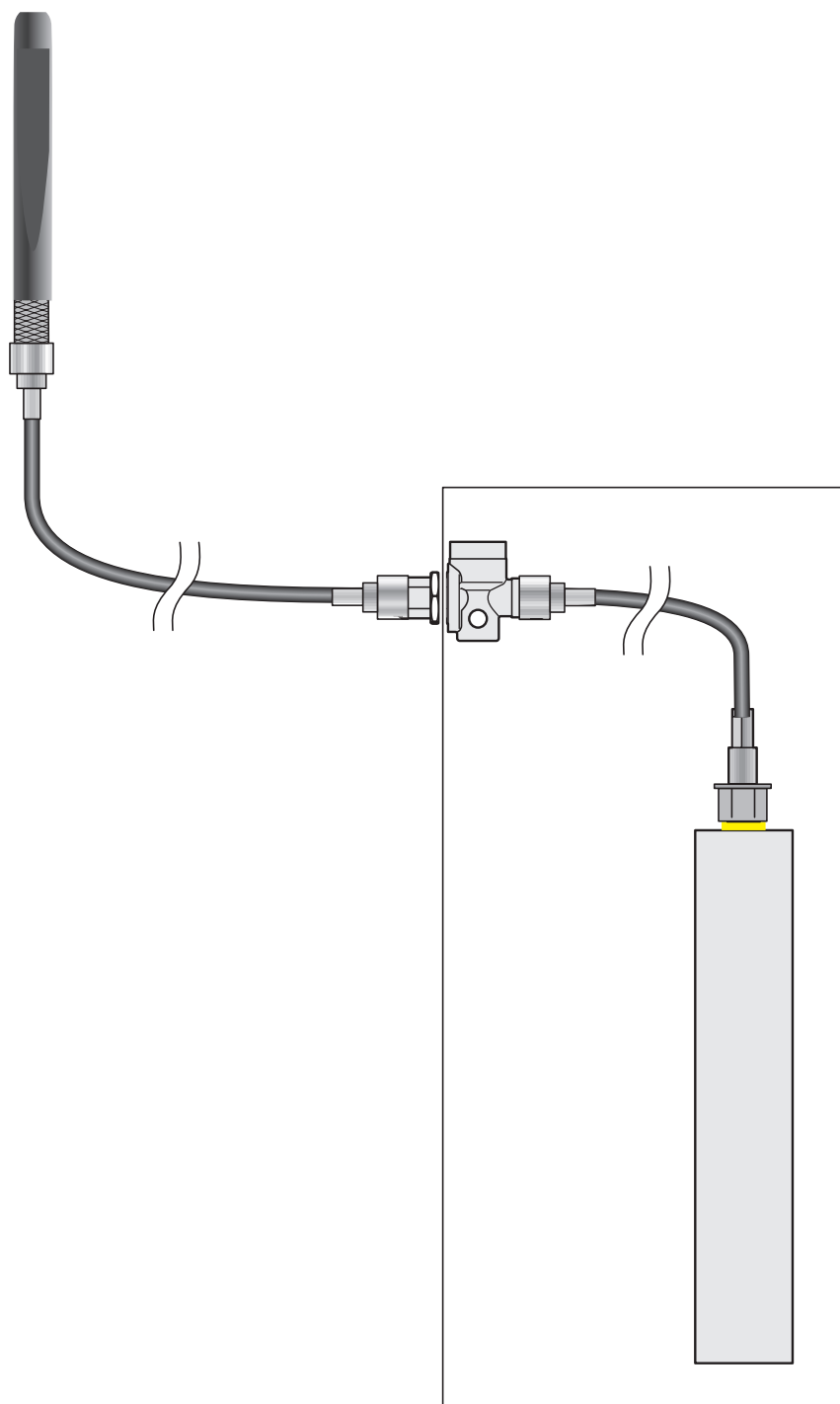
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Schematic diagram

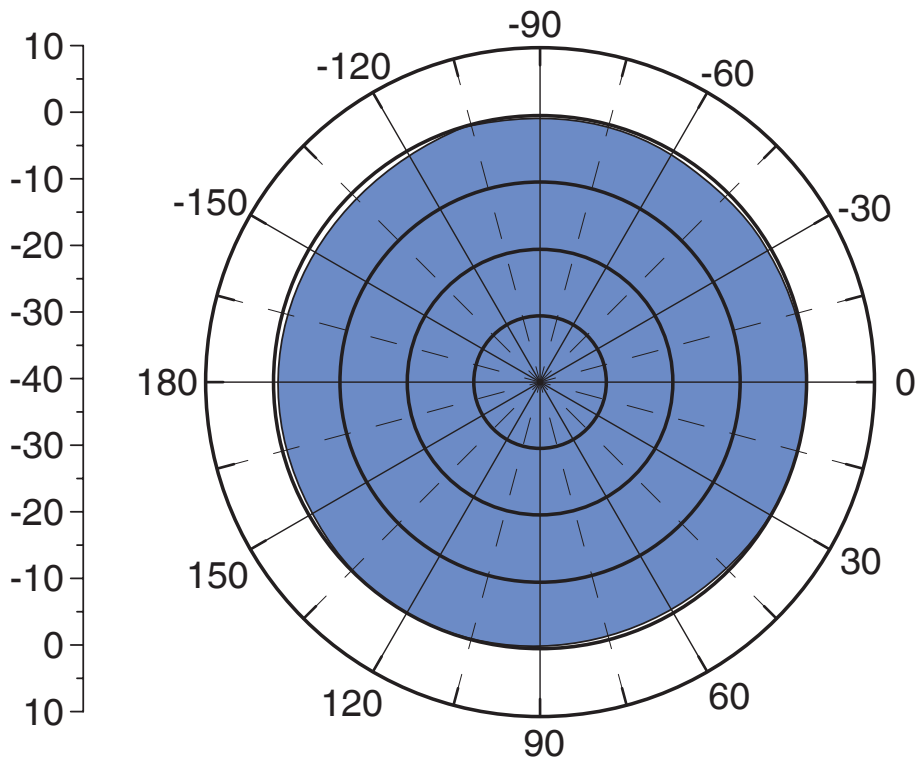


Installation example

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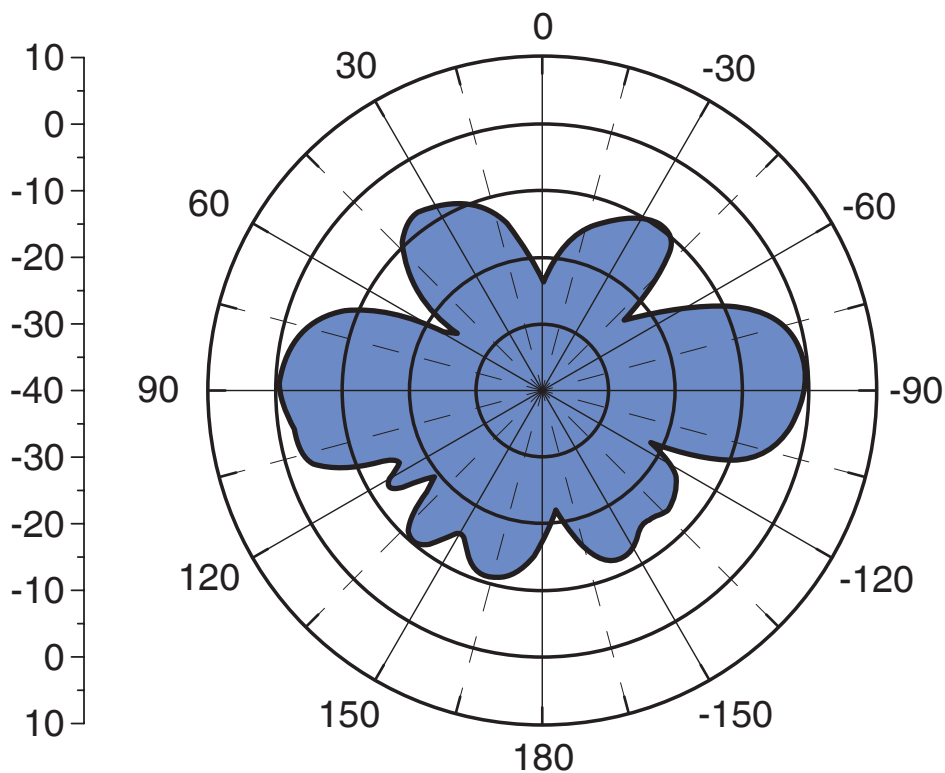
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Diagram



Horizontal

Diagram



Vertical

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Approvals

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IECEx

Approval ID: IECEx IBE 14.0039X



ATEX

Approval ID: IBExU14ATEX1116 X

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 19070105 |
| ECLASS-15.0 | 19070105 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC001698 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 43223100 |
|-------------|----------|

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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% |
|-------------------------------------|----------------------------|

EF3.1 Climate Change

| | |
|---------|---------------|
| CO2e kg | 8.855 kg CO2e |
|---------|---------------|

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