

Product Safety Sheet for Mains Block with Filter, Surge Protection, and DC Blocker. Australian/New Zealand

Product Name: Mains Block MDXXDC-16-AUS/SP

## Manufacturer Information:

Name: Supra Cables / Jenving Technology AB

Address: Bastebacka 112-113, 45991 Ljungskile, Sweden

Contact: Jörgen Wahlsberg, +46-522-698990, [www.supracables.se](http://www.supracables.se)



## 1. Product Description

Product Type: Power mains block designed for 110-250V systems in AUS/NZ markets, featuring integrated filtering, surge protection, and DC blocking capabilities.

Applications: Intended for use in residential and commercial environments to reduce electromagnetic interference (EMI), protect against power surges, eliminate DC components in mains power, and improve power quality for connected devices.

## 2. Safety Standards and Compliance

Relevant Directives and Standards:

- Low Voltage Directive (LVD) 2014/35/EU
- Electromagnetic Compatibility Directive (EMC) 2014/30/EU
- RoHS Directive 2011/65/EU
- General Product Safety Regulation (GPSR) 2023/988
- CE Marking: This product conforms to all applicable EU safety, health, and environmental protection standards and bears the CE marking.

## 3. Risk Assessment and Mitigation

Potential Hazards:

- Electrical Shock: Risk of electric shock if the product is improperly handled or damaged.
- Overheating: Overheating may occur if the product is overloaded or improperly ventilated.
- EMI Interference: Risk of ineffective EMI suppression if the product is misused.
- Surge Damage: Potential damage to connected devices if surge protection is compromised.
- DC Offset Issues: Presence of DC components in mains power can cause transformer saturation, leading to hum and reduced performance.

#### Mitigation Measures:

- Equipped with Non-Intrusive Filtering (NIF) to reduce RFI noise without affecting audio dynamics.
- Integrated three-way surge protection (Live-Earth, Neutral-Earth, Live-Neutral) to safeguard against power surges and lightning strikes.
- DC-blocker functionality to eliminate DC components in mains power, preventing transformer saturation and associated issues.
- Clear usage instructions provided to avoid overloading and ensure proper ventilation.
- Tested in compliance with EN standards to ensure effective EMI suppression.

#### 4. Technical Specifications

- Input Voltage: 110-250V
- Frequency Range: 50-60Hz
- Max Load: 3680W (16A versions)
- Surge Protection: Three-way protection (Live-Earth, Neutral-Earth, Live-Neutral)
- DC Blocking Capacity: Nominally 3.6V DC lift to prevent non-linearity and transformer saturation
- RFI Noise Damping: Up to 40dB
- Internal Wiring: 2.5 mm<sup>2</sup> oxygen-free copper leads
- Chassis: Shielded aluminum to prevent electric, electromagnetic, and magnetic fields

#### 5. Labeling and Traceability

Each product is labeled with:

- Product Name
- Serial/Batch Number
- Manufacturer Contact Information
- CE Marking

#### 6. Instructions for Safe Use

- Only use the product within specified voltage and frequency limits.
- Ensure proper ventilation to avoid overheating.
- Avoid exposure to moisture or direct sunlight.
- Disconnect from mains during installation or maintenance.
- Connect to a grounded wall socket using appropriate mains flex cables for maximum ef-

fectiveness.

## 7. Incident Management and Reporting

### Post-Market Surveillance:

- Supra Cables monitors product performance and user feedback to identify potential safety issues.

### Incident Reporting:

- In case of a safety issue, customers are encouraged to contact Supra Cables immediately.
- Incidents will be reported to relevant authorities via the EU Safety Business Gateway as required by GPSR.

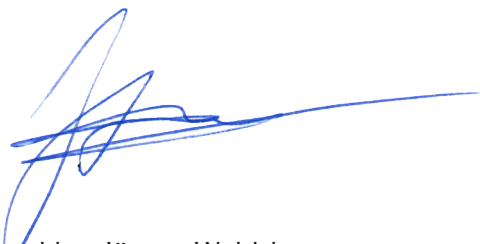
## 8. Declaration of Conformity

Supra Cables declares that this product complies with the following directives and standards:

- CE, RoHS, REACH, EAC, WEEE & Verified by Intertek Sweden
- EN 50085-2-4:2009 in conjunction with EN 50085-1:2005

## 9. Disposal Instructions

- Dispose of this product in accordance with local electronic waste disposal regulations.
- Do not discard with general household waste.

  
Signed by: Jörgen Wahlsberg  
Date: 2025-01-09

