

Product Safety Sheet for European Mains Block with Filter, Surge Protection, and DC Blocker

Product Name: European Mains Block MDXXDC-16-EU/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



1. Product Description

Product Type: Power mains block designed for 110-250V systems in European 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)
- Inlet Socket: SUPRA MCH-16, 16 A
- 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 mm² 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 effectiveness.

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: 2026-03-27