

Product Safety Sheet for ZAC Audio Cables

Product Name: SUPRA ZAC TOSLINK OPTICAL

Manufacturer Information:

Name: Supra Cables / Jenving Technology AB

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1. Product Description

Product Type: High-performance optical S/PDIF digital interconnect cable featuring Toslink connectors at both ends. Utilising SUPRA's proprietary Zero Attenuation Concept (ZAC), the cable minimises optical divergence losses while delivering transmission performance comparable to glass fibre, combined with the flexibility and durability of a high-grade polymer optical fibre core. Guaranteed for digital audio transmission up to 32-bit / 384 kHz.

Applications: Ideal for connecting digital audio sources and components equipped with Toslink optical interfaces, including CD transports, music streamers, DACs, televisions, gaming systems, AV receivers, and home cinema equipment. Particularly suitable where complete galvanic isolation, immunity to electrical interference, and uncompromised digital signal integrity are required.

2. Safety Standards and Compliance

Relevant Directives and Standards:

- Low Voltage Directive (LVD) 2014/35/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 if the cables are damaged or improperly installed.
- Fire Hazard: Reduced compared to standard cables, but proper installation is required to maintain flame-retardant properties.
- Physical Damage: Risk of damage to the cables if subjected to excessive bending, crushing, or abrasion.

Mitigation Measures:

- Manufactured with tin-plated oxygen-free copper (OFC) for high conductivity and corrosion resistance
- Clearly marked for correct usage and cross-sectional area.

4. Technical Specifications

- Cable Type: SUPRA ZAC TOSLINK Optical S/PDIF Digital Interconnect.
- Connector System: Factory-terminated with SUPRA Toslink connectors at both ends. Features a precision triple-polished optical lens system, spring-loaded connector retention, molded strain relief, and 24K gold-plated connector components for long-term reliability and secure connection.
- Conductor Material: High-performance optical fibre employing SUPRA Zero Attenuation Concept (ZAC) technology, engineered to minimise divergence loss and maximise optical transmission efficiency.
- Core Material: Premium age-resistant optical polymer fibre manufactured in Japan, combining excellent

transmission performance, flexibility, and mechanical durability.

- Design: Advanced optical digital interconnect with a patented three-step fibre polishing process for maximum signal integrity. Provides complete galvanic isolation between connected equipment, eliminating ground-loop problems and preventing electrically induced noise. The optical transmission medium is inherently immune to magnetic, electromagnetic, radio-frequency, and electrical interference.
- Diameter: 5.5 mm
- Insulation: Flexible PVC GA78 outer jacket designed to protect the optical fibre core while maintaining low bending force, excellent flexibility, and easy cable routing. Colour: Ice Blue.
- Shielding: Not required. Optical transmission is inherently immune to magnetic fields, electromagnetic interference (EMI), radio-frequency interference (RFI), and electrical noise while providing complete electrical isolation between connected devices.

5. Labeling and Traceability

Each product is labeled with:

- Product Name
- Serial/Batch Number
- Manufacturer Contact Information
- Meter Markings for length measurement
- CE Marking

6. Instructions for Safe Use

- Ensure the cable is suitable for the intended audio application and power requirements.
- Install according to local building and fire safety codes, particularly in public or commercial spaces.
- Avoid exceeding the cable's current-carrying capacity to prevent overheating.
- Inspect for physical damage before installation; do not use if the insulation is compromised.
- For in-wall or conduit installations, verify flame-retardant performance requirements.

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 & CPR verified by Rise

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: 06/15/2026

