



Product Safety Sheet for Supra CAT 8 STP FRHF Patch

Product Name: Supra CAT 8 STP FRHF Patch

Manufacturer Information: Supra Cables

Name: Supra Cables / Jenving Technology AB

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1. Product Description

Product Type: Category 8 shielded twisted pair (STP) Ethernet patch cable designed for ultra-high-speed network connections with maximum EMI/RFI protection.

Applications:

Intended for professional network installations, data centers, and high-performance home or office networks. Suitable for:

- 40GBASE-T Ethernet connections
- High-resolution video (4K/8K) and audio streaming
- Gaming, VoIP, and fast network backbone connections
- Structured cabling installations conforming to ISO/IEC 11801 and EN 50173
- Public and commercial installations (hotels, conference centers) requiring fire safety classification

2. Safety Standards and Compliance

Relevant Directives and Standards:

- Low Voltage Directive (LVD) 2014/35/EU
- RoHS Directive 2011/65/EU (RoHS 3 compliant)
- Construction Products Regulation (CPR) (EU) No 305/2011 – Fire reaction class Dca-s1,d1
- General Product Safety Regulation (GPSR) 2023/988
- ISO/IEC 11801 structured cabling standard
- EN 50173 generic cabling systems
- CPR Fire Classification Dca-s1, d1 (halogen-free, flame-retardant jacket)
- CE Marking: This product conforms to applicable EU safety, health, and environmental protection requirements and bears the CE marking where required.

3. Risk Assessment and Mitigation

Potential Hazards:

- Electrical Shock: Risk of electric shock if the cables are improperly handled, installed, or if the insulation is damaged.
- Fire Hazard: Potential fire risk if the cables are overloaded beyond their specified voltage capacity.
- Physical Damage: Risk of damage to the cables if subjected to excessive bending, crushing, or abrasion.
- EMI/RFI Interference: Poor shielding termination or improper grounding can reduce transmission quality.

Mitigation Measures:

- Double-layer shielding (pair foil + overall braid) reduces electromagnetic interference for reliable data transmission.
- Halogen-free, flame-retardant polyethylene jacket provides fire safety classification Dca-s1, d1.
- Pre-assembled, shielded RJ45 connectors maintain performance and resist wear in frequent connection

environments.

- Backward compatibility with lower category installations ensures safe integration into existing networks.

4. Technical Specifications

- Conductor Material: 7-strand oxygen-free copper (OFC), 5N purity
- Conductor Size: AWG 26 (~0.23 mm²)
- Number of Pairs: 4 twisted pairs
- Insulation: Foam polyethylene (PE)
- Shielding: Individual foil per pair + overall tinned copper braid
- Outer Jacket: Halogen-free flame-retardant PE (FRHF)

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 appropriate for the intended audio application and power requirements.
- Do not exceed the cable's specified voltage capacity to prevent overheating.
- Avoid sharp bends, twisting, or mechanical stress that could damage the cable.
- Inspect the cable for any signs of damage before installation; do not use if the insulation or conductors are compromised.
- Install in accordance with local electrical codes and regulations, and structured cabling standards.

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

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: 2026-03-05

