



Product Data Sheet

ASMACO ELECTRICAL INSULATION TAPE

Electrical Safety with Flame Retardant Performance

Description: ASMACO ELECTRICAL INSULATION TAPE is a premium-quality polyvinyl chloride (PVC) electrical insulating tape coated with a high-performance pressure-sensitive rubber-based adhesive. It is designed to provide reliable electrical insulation, mechanical protection, and secure bundling of wires and cables in low-voltage electrical applications.

The tape offers excellent flexibility and conformability, allowing easy application around irregular shapes, bends, and cable joints while maintaining a secure and durable bond. Its durable PVC backing provides good resistance to abrasion, moisture, and normal environmental exposure, making it suitable for both indoor and outdoor installations under normal service conditions.

Engineered with electrical safety and flame-retardant performance, the tape is formulated to help reduce flame propagation and enhance the safety of electrical installations. It unwinds smoothly, stretches uniformly without breaking, and delivers long-lasting insulation performance while maintaining excellent handling and application characteristics. The tape is available in a range of standard colours for insulation, identification, phase marking, and cable management in accordance with common electrical installation practices.



KEY PERFORMANCE PROPERTIES

- Premium-grade PVC backing with high-performance pressure-sensitive rubber-based adhesive.
- Excellent electrical insulation for low-voltage electrical applications.
- Flame-retardant formulation to help reduce flame propagation and enhance electrical safety.
- Strong and reliable adhesion to wire insulation, cable jackets, and common electrical surfaces.
- High dielectric strength for dependable electrical insulation performance.
- Excellent flexibility and conformability for easy wrapping around irregular shapes and cable joints.
- Good resistance to abrasion, moisture, humidity, and normal weathering conditions.
- Resistant to dilute acids, alkalis, and a wide range of common chemicals.
- Smooth unwinding with easy hand application for improved installation efficiency.
- High elongation with good tensile strength to resist cracking and tearing during application.
- Suitable for colour coding, cable identification, wire harnessing, bundling, and insulation.
- Provides long-lasting mechanical protection and insulation under normal service conditions.
- Compatible with indoor and outdoor electrical installations.

AREAS OF APPLICATION

- Electrical insulation of low-voltage wires, cables, and conductors.
- Insulating electrical joints, splices, and terminal connections.
- Wire harnessing, cable bundling, and loom wrapping.
- Colour coding and phase identification of electrical wiring systems.
- Repair and protection of damaged cable insulation.
- Insulation and protection of electrical connectors and cable terminations.
- General electrical maintenance, repair, and installation work.
- Automotive wiring harnesses and electrical assemblies.
- Industrial electrical panels, switchboards, and control cabinets.
- Residential, commercial, and industrial electrical installations.
- Temporary insulation and cable management during maintenance operations.
- Protection against abrasion, moisture, dust, and environmental exposure in indoor and outdoor applications..

METHOD OF APPLICATION

Surface Preparation

Ensure the wire, cable, connector, or substrate is clean, dry, and free from dust, grease, oil, moisture, corrosion, and any other contaminants that may affect adhesion. Remove any loose insulation or damaged material before applying the tape.

Tape Application

Start wrapping the tape by overlapping onto the cable or conductor to provide a secure anchor. Stretch the tape slightly during application to activate the adhesive and achieve a tight, wrinkle-free wrap. Continue wrapping with approximately **50% overlap** on each turn to ensure uniform insulation thickness and complete coverage. Apply sufficient layers to meet the required insulation level and mechanical protection.

Joint and Splice Insulation

For cable joints, splices, and terminal connections, extend the tape beyond both sides of the joint to ensure complete insulation and sealing. Ensure the final wrap is applied with firm hand pressure to secure the tape and prevent edge lifting.



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Finishing

Press the tape firmly over the entire wrapped surface to ensure maximum adhesive contact. Avoid excessive stretching on the final wrap to prevent tape recovery and edge lifting during service.

Inspection

After application, verify that the tape is uniformly wrapped without wrinkles, air pockets, gaps, or exposed conductors. Ensure complete insulation coverage and proper overlap before energizing the electrical circuit.

Storage & Handling

Store the tape in its original packaging in a cool, dry, and well-ventilated area at temperatures between 5°C and 25°C. Protect from direct sunlight, excessive heat, moisture, and dust. Keep rolls clean and use on a **First-In, First-Out (FIFO)** basis to maintain optimum product performance and shelf life.

STORAGE & SHELF LIFE

ASMACO ELECTRICAL INSULATION TAPE has a shelf life of 24 months from production date when stored in its original packaging at temperatures between 5°C and 25°C.

AVAILABLE SIZE & PACKAGING

Width (mm)	Standard Roll Length Y/M	PACKAGING
19	10 Yard, (9.12 meter)	500 pcs / Carton
Special Sizes: Width × Length – available subject to Minimum Order Quantity (MOQ)		

HEALTH & SAFETY

- Avoid Skin Contact with Adhesive.
- Use in Well-Ventilated Areas.
- Keep Away from Heat and Flames.
- Do Not Ingest.
- Adhesive Removal.
- Keep Out of Reach of Children and Pets.

CLEAN UP

Any adhesive residue from **ASMACO ELECTRICAL INSULATION TAPE** adhesive can be removed by ASMACO STICKER & LABEL REMOVER spray.

TECHNICAL PROPERTIES

DESCRIPTION	UNIT	STANDARDS
Color	Black, Blue, Green, Red, Yellow, Earthing	—
Backing	PVC	—
Total Thickness	0.2 mm	—
Adhesive	Acrylic	—
Breakdown Voltage	≥ 20 kv	—
Fire Retardant	≤ 7 cm	ASTM D 3330
Elongation at Break	≥ 200 %	ASTM D 3759
Tensile Strength	8 Kg / 25 mm	ASTM D 3759

CERTIFICATIONS





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Regional Compliance Notice

Please note that regulatory requirements may vary from one region to another. As a result, product information and recommended applications may differ between countries. For accurate and up-to-date details on product specifications and approved uses, and for any technical guidance, please contact ANCHOR ALLIED FACTORY L.L.C. SHARJAH, UAE Technical Department.

Disclaimer

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