



Highland™

Vinyl Electrical Tape

Data Sheet

1. Product Description

Highland Vinyl Electrical Tape is a flame-retardant, conformable, general purpose, 7-mil thick vinyl insulation tape. It has excellent resistance to abrasion, moisture, alkalis, acid, copper corrosion and varying weather conditions (including sunlight). It is a polyvinyl chloride (PVC) tape that has a high dielectric strength and provides excellent mechanical protection with minimum bulk.

- UL listed, File E129200

2. Applications

- Primary electrical insulation for all wire and cable splices rated up to 600 volts.
- Primary electrical insulation for 600 volts bus applications and protective jacketing for low and high voltage bus.
- Protective jacketing for high voltage cable splices and repairs.
- Harnessing of wires and cables.
- For indoor or outdoor applications.
- For above or below grade applications.

3. Typical Data/Physical Properties

Test Method	Typical Value*
• Temperature Rating: UL 510	80°C (176°F)
• Flammability UL 510	Pass
• Dielectric Strength	1200 V/mil
• Insulation Resistance	>10 ⁶ megohms
• Thickness	7 mils (0,177 mm)
• Elongation	175%
• Breaking Strength	15 lbs/in (26 N/10 mm)
• Adhesion to Steel	18 oz/in (1,97 N/10 mm)

*All values are averages and are not intended for specification purposes.

4. Installation Techniques

The tape should be applied in half-lapped layers with sufficient tension to conform and produce a uniform covering. In most applications, this tension will reduce the tape's width to approximately 5/8 of its original width. On pigtail splices, the tape should be wrapped beyond the end of the wires and then folded back, leaving a protective cushion to resist cut-through. **DO NOT STRETCH THE LAST INCH OF APPLIED TAPE.**

5. Shelf Life

Highland Vinyl Electrical Tape has a five year shelf life (from date of manufacture) when stored under the following recommended storage conditions. Store behind present stock in a clean, dry place at a temperature of 70°F (21°C) and 40-50% relative humidity. Good stock rotation is recommended.

6. Availability

Highland Vinyl Electrical Tape is available from your local 3M authorized distributor in the following roll sizes:

3/4 in x 66 ft. (19 mm x 20,1 m)

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