



Scotch® 700

Commercial Grade Vinyl Electrical Tape

Data Sheet

1.0 Product Description

Scotch 700 Electrical Tape is a high quality, vinyl insulating 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 is flame-retardant and conformable. Scotch 700 provides excellent mechanical protection with minimum bulk. It is a UL Listed and CSA Certified "Insulating Tape".

- UL Listed; UL 510 Standard "Insulating Tape" (product category OANZ) File E129200
- CSA Certification; Standard C22.2 No. 197-M1983 "PVC Insulating Tape" File LR 48769

2.0 Applications

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

3.0 Typical Data/Physical Properties

Temperature Rating	
UL 510	80°C (176°F)
CSA 22.2 Continuous Operation Handling	90°C (194°F) -10°C (14°F)
Flammability	
UL 510	Pass
Dielectric Strength*	
Standard Conditions	>1000 V/mil
After Humidity Condition	>90% of Standard
Insulation Resistance*	>10 ⁶ Megohms
Thickness*	7 mils
Elongation*	225%
Breaking Strength*	15 lbs/in
Adhesion*	
To Steel	25 oz/in
To Backing	19 oz/in

*ASTM D1000

Note: These are typical properties and should not be used for specification purposes.

June 1999

78-8124-5568-7-A

4.0 Installation Techniques

The Tape shall 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. Always wrap the tape "uphill". **Apply the tape with no tension on the last wrap to prevent flagging.**

5.0 Shelf Life

Scotch 700 Electrical Tape has a 5-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 and 40-50% relative humidity. Good stock rotation is recommended.

6.0 Availability

Scotch 700 Electrical Tape is available from your local 3M authorized electrical distributor in the following standard roll size:

3/4 in. x 66 ft.

Other lengths and widths available by special order.

IMPORTANT NOTICE

Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use.

Warranty; Limited Remedy; Limited Liability. This product will be free from defects in material and manufacture as of the date of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any loss or damage arising from this 3M product, whether direct, indirect, special, incidental or consequential regardless of the legal theory asserted.**

3M

Electrical Products Division

6801 River Place Blvd.
Austin, TX 78726-9000
800/245-3573
<http://www.3M.com/elpd>



Printed on 50% recycled paper
with 10% post-consumer

Litho in USA
© 3M 1999 78-8124-5568-7-A