


# 3M™ PVC Electrical Tape 1710N

Data Sheet

August 2012

**Description** 3M™ PVC Electrical Tape 1710N is a good quality general purpose PVC insulating tape. It has excellent resistance to abrasion, moisture, alkalies, acids, copper corrosion and varying weather conditions. It is a PVC tape that has a high wet dielectric strength, is conformable, and provides excellent mechanical protection with minimum bulk. This tape is an Underwriters' Laboratories Listed and Canadian Standards Association Certified "Insulating Tape."

**Agency Approvals & Self Certifications** UL Listed; UL 510 Standard "Insulating Tape" (product category OANZ), File E129200  
CSA Certification; Standard C22.2 No. 197-M1983 "PVC Insulating Tape," File 256213  
RoHS 2002/95/EC 

RoHS Compliant 2002/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under RoHS. This information represents 3M's knowledge and belief, which may be based in whole or in part on information provided by third party suppliers to 3M.

**Features**

- Polyvinyl chloride (PVC) backing
- Pressure-sensitive rubber-based adhesive
- Compatible with solid dielectric cable insulations
- For indoor or outdoor applications

**Applications**

- Primary electrical insulation for all wire and cable joints rated up to 600 volts and 80°C
- Protective jacketing for high voltage cable joints and repairs
- Harnessing of wires and cables
- For indoor or outdoor applications

**Typical Properties** Not for specifications. Values are typical, not to be considered minimum or maximum. Properties measured at room temperature 23°C unless otherwise stated.

Physical Properties (*Test Method ASTM D1000)	Typical Value
Colors available	Black, White, Red, Blue, Green, Yellow, Yellow/Green Stripe
Thickness*	0.18 mm
Temperature Rating UL 510 CSA C22.2 256213	80°C 0-80°C
Adhesion to Steel*	18 N/100 mm
Adhesion to Backing*	18 N/100 mm
Breaking Strength*	260 N/100 mm
Elongation*	200%
Flammability UL 510	Pass

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## Typical Properties *continued*

Electrical Properties (*Test Method ASTM D-1000)	Typical Value
<b>Dielectric Breakdown*</b> Standard condition After Humidity Condition	39.4 kV/mm (1,000 V/mil) >90% of Standard
<b>Insulation Resistance*</b>	> 10 <sup>6</sup> Megohms

**Product Specifications** 3M™ PVC Electrical Tape 1710N is based on polyvinyl chloride (PVC) and/or its copolymers, and has a rubber-based, pressure-sensitive adhesive. The tape shall be 0.18mm (7 mils) thick, and be UL Listed and marked per UL Standard 510 as “Flame-Retardant.”

**Installation** This tape shall be applied in half-lapped layers with sufficient tension to produce a uniform covering. In most applications, this tension will reduce the tape’s width to approximately three quarters of its original width. Apply the tape with no tension on the last wrap to prevent flagging.

**Availability** Please contact your local distributor or 3M New Zealand or 3M Australia.

**Shelf Life & Storage** This product has a two year shelf life from date of manufacture when stored in a humidity controlled storage (10°C to 27°C and <75% relative humidity).

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