

# 3M™ Temflex™ Vinyl Electrical Tape 1700

Data Sheet

November 2011

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**Product Description** 3M™ Temflex™ Vinyl Electrical Tape 1700 is a good quality, economical general purpose vinyl insulating tape. It has excellent resistance to: abrasion, moisture, alkalies, acid, copper corrosion and varying weather conditions. It is a polyvinyl chloride (PVC) tape that is flame-retardant and conformable. 3M Temflex 1700 Tape provides excellent mechanical protection with minimum bulk. It is a UL Listed and CSA Certified “Insulating Tape.”

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**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 LR48769

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.

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**Applications**

- Primary electrical insulation for most 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 application

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**Installation Techniques** Apply the tape 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” to create a shingle effect. Apply the tape with no tension on the last wrap to prevent flagging.**

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## Typical Data/ Physical Properties

Not for specifications. Values are typical, not to be considered minimum or maximum. Properties measured at room temperature 73°F (~23°C) unless otherwise stated.

| Physical Properties (Test Method)<br>*ASTM D1000   | Typical Value<br>US units (metric)         |
|--|--|
| <b>Thickness*</b>                                  | 7 mils (0,18 mm)                           |
| <b>Adhesion*</b><br>To Steel<br>To Backing         | 22 oz/in (2,4 N/cm)<br>22 oz/in (2,4 N/cm) |
| <b>Operating Temperature</b><br>UL 510<br>CSA 2.22 | 80°C (176°F)<br>80°C (176°F)               |
| <b>Breaking Strength*</b>                          | 17 lbs/in (30 N/cm)                        |
| <b>Elongation*</b>                                 | 200%                                       |
| <b>Flammability (UL 510)</b>                       | Pass                                       |

| Electrical Properties (Test Method)<br>*ASTM D1000                            | Typical Value<br>US units (metric)          |
|---|---|
| <b>Dielectric Strength*</b><br>Standard Condition<br>After Humidity Condition | >1000 V/mil (39.4kV/mm)<br>>90% of Standard |
| <b>Insulation Resistance*</b>   | 10 <sup>6</sup> Megohms                     |

## Shelf Life & Storage

3M Temflex Electrical Tape 1700 has a 5-year shelf life (from date of manufacture) when stored in a humidity controlled storage (10°C /50°F to 27°C /80°F and less than 75% relative humidity).

## Availability

Temflex Electrical Tape 1700 is available from your local 3M authorized electrical distributor in the following standard roll size: ¾ in. x 60 ft. Other lengths and widths available by special order.

## Important Notice

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