

3M Data Sheet

Temflex™ 1700

Vinyl Electrical Tape

1. Product Description

Temflex™ 1700 Electrical Tape is a good quality and economical general purpose vinyl insulating tape. It has excellent resistance to: abrasion, moisture, alkalies, acid, copper corrosion and varying weather conditions (including sunlight). It is a polyvinyl chloride (PVC) tape that has a high wet dielectric strength, is flame-retardant and conformable, and provides excellent mechanical protection with minimum bulk. It is a UL listed and CSA certified "Insulating Tape".

2. 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 and outdoor application
- For above or below grade application

3. Typical Properties*

Temperature Rating ¹	80°C
UL 510 Flame Retardant ²	Yes
Electric Strength ³ After Humidity Condition	>39.4 kV/mm >90% of Standard
Insulation Resistance ⁴	>10 ⁶ MΩ
Thickness ³	0.18 mm
Elongation ³	200 %
Breaking Strength ³	29.77N/10 mm

Adhesion to Steel³ 2.63 N/10 mm

Adhesion to Backing³ 2.41 N/10 mm

*These are typical values and should not be used for specification purposes.

¹ IEC 60216

² UL-recognized for flame retardancy per UL 510, Product Category OANZ2, File E 129200

³ IEC 60454-2

⁴ IEC60426

4. Installation Technique

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 $\frac{5}{8}$ 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. Maintenance

Temflex™ 1700 Electrical Tape is stable under normal storage conditions. It complies with the storage requirements of UL Standard 510.

6. Availability

Temflex™ 1700 Electrical Tape is available from your local 3M authorized electrical distributor. Its standard roll size is $\frac{3}{4}$ in. x 60 ft.

Temflex™ 1700P Printed Tape is available in two roll sizes, $\frac{3}{4}$ in. x 66 ft. and $1\frac{1}{2}$ in. x 44 ft., for use in MSHA-approved (Mine Safety and Health Administration) splicing kits.

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