

3M Data Sheet

Temflex™ 1800

Vinyl Electrical Tape

1. Product Description

Temflex™ 1800 Electrical Tape is a good quality and economical general-purpose vinyl insulating tape. It has excellent resistance to: abrasion, moisture, alkalis, acid, and varying weather conditions (including sunlight). It is a polyvinyl chloride (PVC) tape that has a high wet electric strength, is provides excellent mechanical protection with minimum bulk.

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*

Electric Strength¹	>39.4 kV/mm
After Humidity Condition	>90% of Standard
Insulation Resistance²	>10 ⁶ MΩ
Thickness³	0.20 mm
Elongation³	200 %
Breaking Strength³	35 N/10 mm

Adhesion to Steel³ 1.75 N/10 mm

Adhesion to Backing³ 1.75 N/10 mm

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

¹ IEC60243

² IEC 60426

³ IEC 60454-2

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. **Apply the tape with no tension on the last wrap to prevent flagging.**

5. Maintenance

Temflex™ 1800 Electrical Tape is stable under normal storage conditions.

6. Availability

Temflex™ 1800 Electrical Tape is available from 3M and your local 3M authorized electrical distributor.

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