The Electrical Tape

Trusted since 1946.
And now in the 21st century, 3M continues to invest in manufacturing and technology to deliver high-quality premium and general use vinyl electrical tapes for your every day needs. If there is a job or application that requires electrical tape, 3M has a solution.

Pioneers in the tape industry.

3M has been in business for over 100 years and entered the world of tape in 1925 when we invented masking tapes. We haven’t stopped since.

1902
Minnesota Mining and Manufacturing Company opens for business

1925
Minnesota Mining and Manufacturing Company invents masking tape

1940’s
World War II demands make innovation an absolute necessity

1944
3M Pioneer Chemist Esther Eastwold paves the way with her discovery of an adhesive-friendly plasticizer

1945-1946
3M invents Scotch Brand No. 33 Electrical Tape, the new standard for insulating electrical connections

1960
Scotch Brand No. 33 is a household name, routinely seen in TV spots and magazine ads

1966
3M Scotch Brand No. 33 becomes “Super” with new operating temperature rating up to 176°F

1969
3M Vinyl Electrical Tape makes the grade with a plus, boosting its upper operating temperature rating to 221°F

1975
3M launches the first highly conformable, all-weather Scotch® Linerless Rubber Splicing Tape 130C

1985
3M improves on vinyl electrical tape again with even greater elasticity

2016
Scotch® Vinyl Electrical Tape celebrates its 70th birthday

2020
The evolution continues with a new family of high-performing 3M™ Temflex™ General Use Vinyl Electrical Tapes to complement the full line of Scotch® Professional Grade Tapes

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Choose Scotch® Professional Grade Electrical Tape when:
- Quality and performance are a must
- Your reputation is on the line
- The job can’t afford to fail
- Working in critical environments

Performance that won’t change with the working environment or the weather.

When you’re working to deliver power to your customers, your supplies are your lifeline. That’s even more true when you’re faced with difficult conditions on the job, like harsh environments or cold temperatures. You need tapes that can stand up to all that nature throws at you – so you can be ready for anything.

Scotch® Professional Grade Electrical Tapes are backed by more than 75 years of 3M science and field-tested performance.
For some of your most demanding electrical maintenance and repair jobs and reliable performance and quality, turn to Scotch® Super 33+™ Professional Grade Vinyl Electrical Tape. Its unique combination of aggressive pressure-sensitive, rubber-resin adhesive and elastic PVC backing offers both moisture-tight electrical and mechanical protection. Its excellent strength, flexibility and ability to recover means it can stretch up to 250% without breaking.

Additional features:
- Resistant to UV rays, abrasion, moisture, alkalies, acids, corrosion and varying weather conditions
- Cold and sunlight resistant
- Thicker backing for faster build-up / less wraps
- Provides added insulation and excellent adhesion to steel in all weather conditions
- Hot and cold weather performance with operating temperatures between -18°C and 105°C (0°F and 221°F)
- Compatible with solid dielectric cable insulations, as well as epoxy and polyurethane resins
- CSA and VDE Certified, UL 510 Listed, IEC 60454-3-1-7/F-PVCP/90 and RoHS 2015/863/EU Compliant

Applications:
- Suitable for harsh indoor, extreme and exposed outdoor uses
- For heavy commercial and industrial environments
- Primary electrical insulation for all wire and cable splices rated up to 600 volts and 100°C (212°F)
- Primary electrical insulation for 600-volt bus applications, and protective jacketing for high and low-voltage bus
- Protective jacketing for high-voltage cable splices and repairs
- Durable harnessing of wires and cables

Need even more durability and thickness? 3M also makes 10-mil Scotch® Heavy-Duty Grade Vinyl Electrical Tape 22.
You’ve built a reputation on standout craftsmanship. So whether it’s moisture sealing low-voltage wires or cables carrying up to 69 kV, making a secure, weather-resistant connection is crucial. Choose Scotch® Linerless Rubber Splicing Tape 130C for insulating, splicing, and padding low- to high-voltage cables, especially in outdoor or underground applications. Adding rubber tapes to your toolbox can help reinforce your work for years of worry-free and maintenance-free service.

Additional features:
- Highly conformable, ethylene rubber (EPR)
- Rated for 90°C continuous operating temperature and overload temperatures up to 130°C
- Excellent physical and electrical properties
- Compatible with common, solid dielectric cable insulation
- Self-fusing material provides immediate moisture seals and void-free build-ups
- Weather resistant
- High thermal conductivity which provides excellent thermal dissipation of splice heat
- RoHS 2015/863/EU Compliant

Applications:
- For indoor and outdoor, heavy commercial and industrial environments
- Primary insulation for splicing all types of solid dielectric insulated cables through 69 kV
- Primary insulation for building stress cones on all types of solid dielectric insulated cables up to 35 kV bus bar insulation
- Jacketing (secondary insulation) on high-voltage splices and terminations
- Padding, insulating and moisture-sealing electrical connections, bus bar and motor leads
- End-sealing high-voltage cables
Tapes for Every Task

Dependable quality for your everyday needs.

Choose 3M™ Temflex™ General Use Vinyl Electrical Tapes when:

- Working on everyday holding, bundling and marking needs
- You need a dependable, basic electrical tape in your tool box
- Simple jobs need to get done reliably and affordably

Everyday Use

- Various performance levels to meet your everyday jobs
- Good stick for basic holding and harnessing
- Broad temperature ranges to perform in standard indoor and protected outdoor applications

Trusted Companion

Consistent | Reliable | Trusted

- Reliable performance by a brand you trust
- Consistent quality
- Locally stocked for dependable availability

Just because you have your favourite power tool does not mean you leave your trusted screw driver at home. There are some pieces of equipment you just always keep handy like general use electrical tape for those day-to-day activities that keep the job on track.
When you need a dependable, multi-purpose general purpose PVC electrical tape, use 3M™ Temflex™ General Use Vinyl Electrical Tape 165. This affordable solution offers reliable performance for protective jacketing, harnessing, marking and insulating low voltage cables in non-critical applications.

Additional features:
- Provides resistance to abrasion, moisture, alkalies, and solvents
- Better adhesion, strength and thickness for more demanding general use applications
- Operates well in temperatures between -7°C and 90°C (19°F to 194°F)
- CSA Certified, UL 510 Listed, IEC 60454-3-1-5/F-PVCP/90 and RoHS 2015/863/EU Compliant

Applications:
- Suitable for moderate indoor and weather protected uses
- For residential, commercial and manufacturing (OEM) environments
- Colour-coding for phase identification, wire marking and safety
- Electrical insulation for wire and cable splices rated up to 600 volts
- Harnessing and bundling of wires and cables
- Wire pulling and fishing

Available Colours:
- Light to Medium Duty
- Protective Jacketing
- Cable Harness
- Low Voltage Insulation
- Moderate Conditions
- Variety of Colours
- Flame Retardant
- Indoor and Protected Outdoor

3M™ Temflex™ General Use Vinyl Electrical Tape 175 is a high performance, durable, general purpose electrical tape. This tape solution offers value and reliable performance for protective jacketing, harnessing and insulating low voltage cables in indoor and protected outdoor applications.

Additional features:
- Provides resistance to abrasion, moisture, alkalies, and solvents
- Better adhesion, strength and thickness for more demanding general use applications
- Operates well in temperatures between -7°C and 90°C (19°F to 194°F)
- CSA Certified, UL 510 Listed, IEC 60454-3-1-5/F-PVCP/90 and RoHS 2015/863/EU Compliant
- Available in black only

Applications:
- Suitable for moderate indoor and weather protected uses
- For residential and commercial environments
- Provides a protective jacket for high-voltage cable splices and repairs
- Electrical insulation for wire and cable splices rated up to 600 volts
- Harnessing and bundling of wires and cables

Available Colours:
- Medium-Duty
- Cable Harness and Jacketing
- Low Voltage Insulation
- Moderate Conditions
- Black Only
- Flame Retardant
- Indoor and Protected Outdoor
**Electrical Tape Quick Reference Guide**

Still not sure which 3M™ Electrical Tape is right for your application? Use this simple chart to compare the options or visit 3M.ca/ElectricalTape for more information.

<table>
<thead>
<tr>
<th>Typical Values</th>
<th>3M™ Temflex™ General Use Vinyl Electrical Tape 165</th>
<th>3M™ Temflex™ Heavy Duty Professional Grade Vinyl Electrical Tape</th>
<th>Scotch® Vinyl Colour Coding Electrical Tape 35</th>
<th>Scotch® Super 33+™ Professional Grade Vinyl Electrical Tape</th>
<th>Scotch® 100 Heavy-Duty Rubber Splicing Tape 130C</th>
<th>Scotch® Rubber Splicing Tape 23</th>
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</thead>
<tbody>
<tr>
<td>Bed For</td>
<td>Light to Medium Duty</td>
<td>Medium Duty</td>
<td>Medium to Heavy Duty</td>
<td>Medium to Heavy Duty</td>
<td>Heavy Duty</td>
<td>Medium to Heavy Duty</td>
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<tr>
<td>Target Applications</td>
<td>Ternary and non-conductive marking, bundling, holding and secondary insulation</td>
<td>Semi-permanent bundling, holding and secondary insulation</td>
<td>Long lasting, heavy-duty applications and bundling</td>
<td>Permanent, low-voltage primary and secondary insulation, cable jacketing and mechanical protection</td>
<td>Permanent, low-voltage primary and secondary insulation, cable jacketing and mechanical protection and padding</td>
<td>Permanent, low-voltage, high-voltage primary insulation, cable jacketing, moisture-sealing and padding</td>
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<tr>
<td>Application Environment</td>
<td>Moderate temperatures and conditions</td>
<td>Moderate temperatures and moisture or corrosive conditions</td>
<td>Extreme temperatures and moisture or corrosive conditions</td>
<td>Extreme temperatures and moisture, corrosive or rough conditions</td>
<td>Moderate temperatures (high, overheat up to 90°C) and moisture, corrosive or rough conditions</td>
<td>Moderate temperatures (high, overheat up to 90°C) and moisture, corrosive or rough conditions</td>
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<tr>
<td>Operating Temperature</td>
<td>0 to 60°C (32 to 140°F)</td>
<td>75 to 90°C (165 to 195°F)</td>
<td>125 to 150°C (257 to 302°F)</td>
<td>150 to 200°C (302 to 392°F)</td>
<td>150 to 200°C (302 to 392°F)</td>
<td>Up to 200°C (392°F)</td>
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<tr>
<td>Thickness</td>
<td>0.127 mm (0.005 in)</td>
<td>0.177 mm (0.007 in)</td>
<td>0.177 mm (0.007 in)</td>
<td>0.254 mm (0.010 in)</td>
<td>0.762 mm (0.030 in)</td>
<td>0.762 mm (0.030 in)</td>
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<td>Sticking Power (Adhesion to Steel)</td>
<td>15 cm (6 in)</td>
<td>18 cm (7 in)</td>
<td>20 cm (8 in)</td>
<td>25 cm (10 in)</td>
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<td>-</td>
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<tr>
<td>Strength (tensile strength)</td>
<td>3900 lbf/in² (27000 kN/m)</td>
<td>3900 lbf/in² (27000 kN/m)</td>
<td>4400 lbf/in² (30400 kN/m)</td>
<td>4900 lbf/in² (34100 kN/m)</td>
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<td>Insulation (Dielectric Strength)</td>
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<td>1000 V/mil</td>
<td>1200 V/mil</td>
<td>1200 V/mil</td>
<td>1500 V/mil</td>
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<td>Colour Details</td>
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</table>

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1 Temperature range may vary by local agency standards.
2 Based on ASTM D2000. Not for specification. Values are typical, not to be considered minimum or maximum. Properties measured at room temperature 73°F (23°C) unless otherwise stated.

**Top Recommendations For Your Toolbox**

**Scotch® Super 33+™ and Scotch® Super 88**

- Critical projects and tougher environments.

**Scotch® 35**

- Outdoor or permanent marking and labeling.

**Scotch® 130C and Scotch® 23**

- Moisture-sealing and higher voltage.

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<table>
<thead>
<tr>
<th>Product</th>
<th>UPC</th>
<th>Roll Size</th>
<th>Colour</th>
<th>MOQ</th>
<th>Case Qty.</th>
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<td>1/2&quot; x 66'</td>
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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.

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