



Science.  
Applied to Life.™

3M™ Vinyl Electrical Tapes

**Tapes to  
help power  
through your  
toughest jobs.**

## 3M Electrical Solutions

### Longstanding professional grade.

From connectors to terminals to protective coatings, we have the right solutions to fit your project and budget – and help you deliver efficient and reliable energy to your customers. Our professional grade vinyl electrical tapes are backed by more than 75 years of 3M science and field-tested performance.

### 3M™ Vinyl Electrical Tapes

# 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.

Our family of Scotch® Professional Grade Vinyl Electrical Tapes are designed to work reliably in a wide range of conditions. That means our backings and adhesives are rigorously tested to stand up to tough challenges, so they stretch, stick, stay stuck – and stand up in heavy duty and industrial installations, extreme cold and heat, as well as moist or corrosive environments.

And because these are the only vinyl electrical tapes made in the USA\* and supported globally by exceptional local service, you have peace of mind that the tapes you rely on will be available for those critical projects, important installations that need to last, and when unexpected weather increases the need for maintenance and repair of critical electrical systems.

\* Applies to Scotch® Vinyl Electrical Tapes Super 33+™, Super 88 and 35



# Choose Professional Grade Vinyl 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

## High Performance

### Adhesion • Dielectric • Elongation

- High quality vinyl that conforms and stretches
- Aggressive, electrical-grade adhesive is perfect for low voltage primary insulation
- Flexible backings and strong adhesives combine to help deliver a reliable, tight seal

## Extreme Environments

### Cold or Hot • Moisture • Outdoor

- Strong adhesive consistently sticks in cold temperatures
- Remains stable and sticks in extreme heat
- Stretches and conforms for a nice, tight seal in moist and outdoor environments

## Peace of Mind

### Safety • Reliability • Reputation

- Consistent quality and made in the USA
- The tapes to use when you can't afford an electrical failure
- Helps reduce the risk of unscheduled repairs



## Scotch® Super 33+™ Professional Grade Vinyl Electrical Tape

**Professional**  
Super stretchy  
and comfortable



For your most demanding electrical maintenance and repair jobs, turn to Scotch Super 33+ tape. Its unique combination of pressure-sensitive, rubber-resin adhesive and PVC backing offers both electrical and mechanical protection, and its high strength means it can stretch up to 250% without breaking.

### Additional features:

- Highly resistant to UV rays, abrasion, moisture, alkalis, acids, corrosion and varying weather conditions
- Provides added insulation and good adhesion to steel in all weather conditions
- Resistant to temperatures between 0°F and 220°F
- Compatible with rubber and synthetic splicing compounds
- CSA and VDE Certified, UL Listed and RoHS 2011/65/EU Compliant



Available in a wide variety of colors, Scotch tape 35 is your go to solution for phase identification, color coding, marking and more. It stretches easily and adheres in almost any shape or angle for maximum versatility.

**Additional features:**

- Pressure-sensitive rubber adhesive bonds easily and securely
- Available in blue, brown, gray, green, orange, red, violet, white, yellow, and pink
- Suitable for temperatures between 14°F to 221°F
- CSA and VDE Certified, UL Listed and RoHS 2011/65/EU Compliant

## Scotch® Professional Grade Vinyl Electrical Tape 35



**Professional**  
Super stretchy  
and comfortable



## Scotch™ Heavy-Duty Grade Vinyl Electrical Tape Super 88

**Heavy Duty**  
Extra padding  
for extra strength



When you need to build a protective jacket and/or electrical insulation for splices and cables, choose Scotch Tape Super 88. Made of a thicker, highly durable PVC backing, it performs in all weather and for protection you can trust.

### Additional features:

- Highly resistant to UV rays, abrasion, moisture, alkalis, acids, corrosion and varying weather conditions
- Withstands a range of temperatures between 0°F to 221°F
- Compatible with solid dielectric cable insulations, as well as epoxy and polyurethane resins
- CSA and VDE Certified, UL Listed and RoHS 2011/65/EU Compliant



## 3M™ Temflex™ Vinyl Electrical Tape 1700

### General Use Bundling and harnessing indoors

When you need a dependable general-purpose electrical tape, use Temflex tape 1700. This affordable solution offers reliable performance for protective jacketing and harnessing low voltage cables.

#### Additional features:

- Resistant to UV rays, abrasion, moisture and solvents.
- Operates well in temperatures between 32°F to 176°F
- CSA Certified, UL Listed and RoHS 2011/65/EU Compliant
- 1700C available in 9 colors for wire marking and identification

## The key to selecting the right tape for your application

Still not sure which 3M™ Vinyl Electrical Tape is right for your application? Use this simple chart to compare the options.

	General Use	Professional	Heavy Duty	
	3M™ Temflex™ Vinyl Electrical Tape 1700	Scotch® Super 33+™ Vinyl Electrical Tape	Scotch® Vinyl Electrical Tape 35	Scotch® Vinyl Electrical Tape Super 88
Thickness	7.0 mil	7.0 mil	7.0 mil	8.5 mil
Low temperature rating	32°F 0°C	0°F -18°C	14°F -10°C	0°F -18°C
High temperature rating	176°F 80°C	221°F 105°C	221°F 105°C	221°F 105°C
Flame retardant	Yes	Yes	Yes	Yes
Sticking power (adhesion to steel at 72°F)	24 oz/in	28 oz/in	20 oz/in	25 oz/in
Elongation	200%	250%	225%	250%
Breaking strength	17 lb/in	15 lb/in	17 lb/in	20 lb/in
Country of manufacture	Mexico	USA	USA	USA
Color				

# Let 3M help you find the right solutions – every time.

3M offers more than just vinyl electrical tapes. In fact, the portfolio of 3M electrical tapes includes full lines of mastic and rubber tapes designed to help you work efficiently and safely. No matter the job, there is a 3M tape for you.

## Vinyl Electrical Tape

- Corrosion resistant
- Puncture resistant
- Works with epoxy and polyurethane resin
- Primary insulation up to 600V
- Cable jacketing
- Harness cables

## Mastic Tape

- Moisture protection
- Sticks to greasy surfaces
- Padding for odd shaped components
- Primary insulation up to 1kV
- Indoor and outdoor use
- Self-healing

## Rubber Tape

- Liner or linerless
- Primary insulation up to 69kV
- Moisture protection
- Padding
- Rubber resin adhesive
- Self-fusing
- Bus bar insulation
- End sealing high voltage cables

## The key to selecting the right electrical tape for your application.

There are some basic rules to follow when you're selecting electrical tape.



- Vinyl backed tapes have a strong, flexible, abrasion resistant PVC backing which provide a barrier from moisture and corrosive elements. They are often the first and most economical choice for primary and secondary insulation.
- Mastic tapes offer excellent adhesion and sealing characteristics to metals, rubbers, synthetic cable insulations and jackets. They provide UV resistance and are designed for outdoor conditions because they quickly and easily resist moisture.
- Rubber tapes are designed for use in splicing and terminating wires and cables with options rated up to 69kV. They have excellent physical and electrical properties and are ideal for adding moisture protection and padding to electrical connections and cables.

### 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.

### Warranty; Limited Remedy; Limited Liability.

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The information in this brochure is accurate, to 3M's knowledge and belief, which may be based on information provided by third party suppliers to 3M.



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