



## The Electrical Tape

Trusted since 1946.



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

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 everyday needs. If there is a job or application that requires electrical tape, 3M has a solution.



From the tradesman to the professional...

# Tapes for Every Task.



## 3M™ Temflex™ General Use Vinyl Electrical Tapes

Our family of **3M Temflex General Use Vinyl Electrical Tapes** are designed to meet basic needs in most general electrical and non-electrical applications.

- Our backings and adhesives are designed to hold up in everyday conditions when conducting simple low voltage insulation, wire marking, cable bundling and pulling.
- Whether indoor or in protected outdoor environments, these tapes are dependable and will hold and insulate to get the job done.

And because they are made by 3M, one of the most recognizable and trusted brands of vinyl electrical tape around the world, you can be assured that they are manufactured with consistent and reliable quality to perform when and where you need it.

## Scotch® Professional Grade Vinyl Electrical Tapes

Our family of **Scotch® Professional Grade Vinyl Electrical Tapes** are designed to work reliably in a wide range of standard to industrial conditions.

- That means our backings and adhesives are rigorously tested to stand up to and meet your tough challenges.
- 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.

These vinyl electrical tapes are made in the USA\* and supported globally by excellent local service. 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 or unforeseen problems increase the need for maintenance and repair of your essential electrical systems.

\* Applies to Scotch® Vinyl Electrical Tapes Super 33+™, Super 88, 35 and 22.





# 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 Vinyl Electrical Tapes are backed by more than 75 years of 3M science and field-tested performance.**

## Scotch®

### Choose Scotch® 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, dry, 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 costly downtimes and electrical failures
- Helps reduce the risk of unscheduled repairs

\* Applies to Scotch® Vinyl Electrical Tapes Super 33+™, Super 88, 35 and 22.



# The Electrical Tape

For tough outdoor, high vibration  
and abrasive applications

## Scotch® Super 88

Heavy-Duty Grade Vinyl Electrical Tape

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, more durable PVC backing and the same great premium-grade adhesive as Scotch® Super 33+™ Tape, it performs in all weather, providing protection you can trust.



### 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 0°F and 221°F (-18°C and 105°C)
- 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 & exposed outdoor uses
- For heavy commercial and industrial environments
- Primary electrical insulation for all wire and cable splices rated up to 600 volts and 105°C (221°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.*

Heavy Duty

Protective  
Jacketing

Low  
Voltage  
Insulation

Extreme  
Conditions

Black Only

Flame  
Retardant

Cold and  
Sunlight  
Resistant

Indoor &  
Exposed  
Outdoor

# The Electrical Tape

For critical everyday and moist, corrosive or tough industrial environments

## Scotch® Super 33+™

Professional Grade Vinyl Electrical Tape

For some of your most demanding electrical maintenance and repair jobs and reliable performance and quality, turn to Scotch® Super 33+™ Tape. Its unique combination of aggressive pressure-sensitive, rubber-resin adhesive and elastic PVC backing offers both moisture-tight electrical and mechanical protection. And its excellent strength, flexibility and ability to recover means it can stretch up to 250% without breaking.

### Additional features:

- When you see the gold core, you have found the gold standard in electrical tape
- Stretch and flexibility to conform to odd shapes and create nice, tight seals for electrical connections
- Highly resistant to abrasion, moisture, alkalies, acids, corrosion and varying weather conditions
- Cold and sunlight resistant
- Provides excellent insulation and adhesion in all weather conditions with long-lasting performance between 0°F and 221°F (-18°C and 105°C)
- Compatible with rubber and synthetic splicing compounds
- CSA and VDE Certified, UL 510 Listed, IEC 60454-3-1-7/F-PVCP/90 and RoHS 2015/863/EU Compliant

### Applications:

- Excellent for critical applications
- For residential, light and heavy commercial and industrial environments
- Suitable for harsh indoor, extreme & exposed outdoor uses
- Primary electrical insulation for all wire and cable splices rated up to 600 volts and 105°C (221°F)
- Primary electrical insulation for 600-volt bus applications, and protective jacketing for high and low voltage bus
- Protective jacketing for low and high voltage cable splices and repairs
- Long-lasting harnessing of wires and cables



Medium/  
Heavy Duty

Protective  
Jacketing

Low  
Voltage  
Insulation

Extreme  
Conditions

Black Only

Flame  
Retardant

Cold and  
Sunlight  
Resistant

Indoor &  
Exposed  
Outdoor

# The Electrical Tape

For long-lasting, fade-resistant marking and color-coding

## Scotch® 35

Professional Grade Vinyl Electrical Tape

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

Available Colors



### Additional features:

- Resistant to abrasion, moisture, alkalies, acids, corrosion, and varying weather conditions
- Suitable for temperatures between 14°F to 221°F (-10°C and 105°C)
- Available in 10 fade-resistant colors
- CSA and VDE Certified, UL 510 Listed, IEC 60454-3-1-6/F-PVCP/90 and RoHS 2015/863/EU Compliant

### Applications:

- Suitable for harsh indoor & weather-protected outdoor uses
- For residential, commercial and industrial environments
- More permanent phase identification, color-coding of motor leads and piping systems
- Long-lasting marking for safety areas and equipment
- Easily identified insulation for electrical wiring
- Marking and identifying cables on cell sites

Medium/  
Heavy Duty

Phase  
ID

Marking &  
Labeling

Harsh  
Conditions

Variety of  
Colors

Flame  
Retardant

Indoor &  
Protected  
Outdoor



# The Electrical Tape

For excellent primary insulation and moisture protection through self-fusing technology

## Scotch® Tape 130C

Linerless Rubber Splicing Tape



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

Heavy  
Duty

Protective  
Jacketing

Low to High  
Voltage  
Insulation

Extreme  
Conditions

Black Only

Moisture  
Sealing

Linerless

Indoor &  
Outdoor





# 3M™ Temflex™

## Choose 3M™ Temflex™ General Use Vinyl Electrical Tape when:

- Working on everyday holding 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

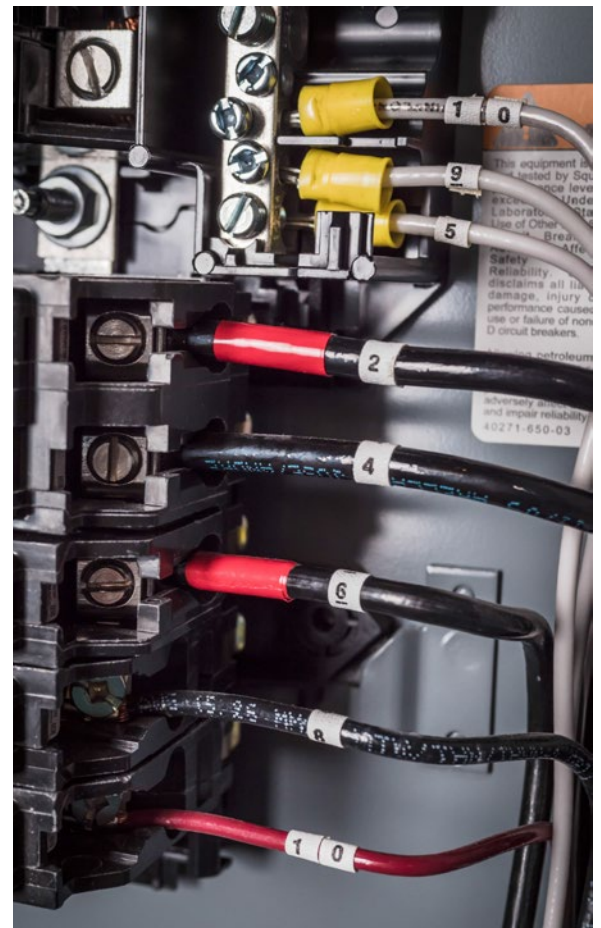
### Trusted Companion

Consistent | Reliable | Trusted

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

## Dependable quality for your everyday needs

Just because you have your favorite power tool does not mean you leave your trusted screwdriver at home. There are some pieces of equipment you just always keep handy. Hello general use electrical tape for those day-to-day activities that keep the job on track.



# The Electrical Tape

For daily insulation,  
harnessing, and marking

## 3M™ Temflex™ 165

General Use Vinyl Electrical Tape

When you need a dependable, multi-purpose general purpose vinyl electrical tape, use 3M™ Temflex™ Tape 165. This affordable solution offers reliable performance for protective jacketing, harnessing, marking and insulating low voltage cables in non-critical applications.



Available Colors



### Additional features:

- Provides resistance to abrasion, moisture, alkalies, and solvents
- More stretch and flexibility for better bundling and sealing
- Operates well in temperatures between 32°F to 194°F (0°C and 90°C)
- CSA and VDE Certified, UL 510 Listed, IEC 60454-3-1-5/F-PVCP/90 and RoHS 2015/863/ EU Compliant

### Applications:

- Suitable for moderate indoor & weather protected outdoor uses
- For residential, commercial and manufacturing (OEM) environments
- Color-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

Light to  
Medium  
Duty

Protective  
Jacketing

Cable  
Harness

Low  
Voltage  
Insulation

Moderate  
Conditions

Variety of  
Colors

Flame  
Retardant

Indoor &  
Protected  
Outdoor

# The Electrical Tape

For tough indoor or simple outdoor bundling & insulation

## 3M™ Temflex™ 175

General Use Vinyl Electrical Tape

3M™ Temflex™ 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 and stretch and thicker for more demanding general use applications
- Operates well in temperatures between 19°F to 194°F (-7°C and 90°C)
- 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 & weather-protected outdoor 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

Medium  
Duty

Cable  
Harness &  
Jacketing

Low  
Voltage  
Insulation

Moderate  
Conditions

Black Only

Flame  
Retardant

Indoor &  
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 [www.3m.com/electricaltape](http://www.3m.com/electricaltape) for more information.



Typical Values	3M™ Temflex™ Tape 165	3M™ Temflex™ Tape 175	Scotch® Tape 35	Scotch® Super 33+™ Tape	Scotch® Tape Super 88	Scotch® Tape 130C
<b>Best For</b>	Light to Medium Duty	Medium Duty	Medium to Heavy Duty	Medium to Heavy Duty	Heavy Duty	Medium to Heavy Duty
<b>Target Applications</b>	Temporary and/or non-critical marking, bundling, holding & secondary insulation	Semi-permanent bundling, holding & secondary insulation	Long lasting color identification & marking	Permanent, low voltage primary & secondary insulation, cable jacketing and mechanical protection	Permanent low voltage primary & secondary insulation, cable jacketing, mechanical protection & padding	Permanent low to high voltage primary insulation, cable jacketing, moisture-sealing and padding
<b>Application Environment</b>	Moderate temperatures & conditions	Moderate temperatures & conditions	Harsh temperatures & moist or corrosive conditions	Extreme temperatures & moist or corrosive conditions	Extreme temperatures & moist, corrosive or rough conditions	Moderate temperatures (high overload up to 130°C) & moist, corrosive or rough conditions
<b>Operating Temperature<sup>1</sup></b>	32 to 194°F (0 to 90°C)	19 to 194°F (-7 to 90°C)	14 to 221°F (-10 to 105°C)	0 to 221°F (-18 to 105°C)	0 to 221°F (-18 to 105°C)	up to 194°F (up to 90°C)
<b>Thickness</b>	6 mils (0,15mm)	7 mils (0,177mm)	7 mils (0,177mm)	7 mils (0,177mm)	8.5 mils (0,215mm)	30 mils (0,762mm)
<b>Sticking Power</b> (Adhesion to Steel)	18 oz/in	18 oz/in	20 oz/in	28 oz/in	25 oz/in	-
<b>Stretch<sup>2</sup></b> (Elongation)	200%	200%	225%	250%	250%	850%
<b>Strength<sup>2</sup></b> (Backing Strength)	13.2 lb/in	15.4 lb/in	17 lb/in	15 lb/in	20 lb/in	7.5 lb/in
<b>Insulation<sup>2</sup></b> (Dielectric Strength)	1000V/mil	1000V/mil	1250V/mil	1150V/mil	1250V/mil	750 V/mil
<b>Color Details</b>						

<sup>1</sup> Temperature range may vary by local agency standards.

<sup>2</sup> Based on ASTM D 1000. 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.



# Top Recommendations For Your Toolbox



Product	UPC	Roll Size	Color	MOQ	Case Qty.
33+-3/4x66FT-1	54007061328	3/4" x 66 FT	Black	100	100
35-3/4x66FT-BL	54007108368	3/4" x 66 FT	Blue	10	100
35-1/2x20FT-BL	54007102403	1/2" x 20 FT	Blue	10	100
35-3/4x66FT-BR	54007108856	3/4" x 66 FT	Brown	10	100
35-1/2x20FT-BR	54007102991	1/2" x 20 FT	Brown	10	100
35-3/4x66FT-GY	54007000723	3/4" x 66 FT	Gray	10	100
35-1/2x20FT-GY	54007102816	1/2" x 20 FT	Gray	10	100
35-3/4x66FT-GN	54007108511	3/4" x 66 FT	Green	10	100
35-1/2x20FT-GN	54007102656	1/2" x 20 FT	Green	10	100
35-3/4x66FT-OR	54007108696	3/4" x 66 FT	Orange	10	100
35-1/2x20FT-OR	54007102731	1/2" x 20 FT	Orange	10	100
35-3/4x66FT-RD	54007108108	3/4" x 66 FT	Red	10	100
35-1/2x20FT-RD	54007102243	1/2" x 20 FT	Red	10	100
35-3/4x66FT-VL	54007112716	3/4" x 66 FT	Violet	10	100
35-1/2x20FT-VL	54007499237	1/2" x 20 FT	Violet	10	100
35-3/4x66FT-WH	54007108283	3/4" x 66 FT	White	10	100
35-1/2x20FT-WH	54007102328	1/2" x 20 FT	White	10	100
35-3/4x66FT-YL	54007108443	3/4" x 66 FT	Yellow	10	100
35-1/2x20FT-YL	54007102571	1/2" x 20 FT	Yellow	10	100
35-3/4x66FT-PK	51128613337	3/4" x 66 FT	Pink	10	100
35-1/2x20FT-MUL	54007905295	1/2" x 20 FT	Multi-Colors	50	50
130C-3/4x30FT	54007417170	3/4" x 30 FT	Black	24	24
130C-1.5x30FT	54007417538	1" x 30 FT	Black	12	12
130C-1x30FT	54007417187	1.5" x 30 FT	Black	24	24
130C-2x30FT	54007417545	2" x 30 FT	Black	12	12
165BK4A	76308925680	3/4" x 60 FT	Black	100	100
165BL4A	76308925697	3/4" x 60 FT	Blue	10	100
165BR4A	76308925703	3/4" x 60 FT	Brown	10	100
165GR4A	76308925710	3/4" x 60 FT	Green	10	100
165GY4A	76308925727	3/4" x 60 FT	Grey	10	100
165OR4A	76308925734	3/4" x 60 FT	Orange	10	100
165PR4A	76308925741	3/4" x 60 FT	Purple	10	100
165RD4A	76308925758	3/4" x 60 FT	Red	10	100
165WH4A	76308925765	3/4" x 60 FT	White	10	100
165YL4A	76308925772	3/4" x 60 FT	Yellow	10	100

## For Those Other Projects

- Moisture-sealing & higher voltage
- Outdoor & heavy-duty critical projects
- Tougher general use projects

Product	UPC	Roll Size	Color	MOQ	Case Qty.
130C-3/4x30FT	54007417170	3/4" x 30 FT	Black	24	24
88-3/4x66FT	54007061434	3/4" x 66 FT	Black	100	100
175BK4A	76308926182	3/4" x 60 FT	Black	100	100

\*Additional stocked sizes and custom options may be available for Scotch® Professional Grade Tapes.

3M™ Electrical Tapes

From the makers  
of the original vinyl  
electrical tape...



...comes a complete  
family of electrical tapes  
to meet all your needs.





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

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

### Vinyl Electrical Tape

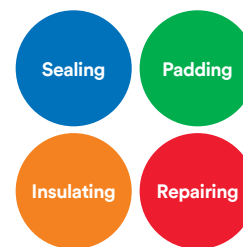
- Corrosion resistant
- Puncture resistant
- Works with epoxy and polyurethane resin
- Primary insulation up to 600V
- Cable jacketing
- Harness cables
- Durable mechanical protection

### Rubber Tape

- Liner or linerless
- Primary insulation up to 69kV
- Excellent moisture protection
- Padding
- Self-fusing
- Bus bar insulation
- End-sealing high voltage cables

### Mastic Tape

- Excellent, instantaneous moisture protection
- Sticks to greasy surfaces
- Padding for odd shaped components
- Indoor and outdoor use
- Self-healing
- Available in various thicknesses, rolls and pads



Find more information and help evaluating these products at [3M.com/electricaltape](http://3M.com/electricaltape)



#### **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.**

3M's product warranty is stated in its Product Literature available upon request. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. **Except where prohibited by law, 3M will not be liable for any direct, indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.**

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