

3M Science.
Applied to Life.™

3M™ Electrical Tapes



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



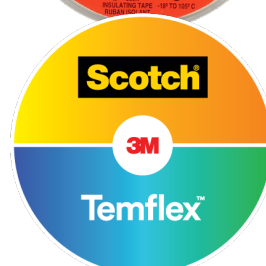
1985

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



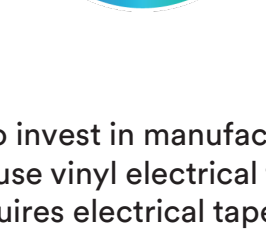
2016

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 every day 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.

Being 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 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: blue, brown, gray, green, orange, red, violet, white, yellow, and pink
- 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 provide 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

The Electrical Tape

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

Scotch® Tape 23

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® Rubber Splicing Tape 23 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)
- Removable liner protects from dust and dirt during installation
- Rated for 90°C continuous operating temperature and overload temperatures up to 130°C
- Excellent physical and electrical properties which are unaffected by degree of stretch
- Compatible with common, solid dielectric cable insulation
- Self-fusing material provides immediate moisture seals and void-free build-ups
- Weather resistant
- 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
- Padding, insulating and moisture-sealing electrical connections, bus bar and motor leads
- 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

Removable
Liner

Indoor and
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

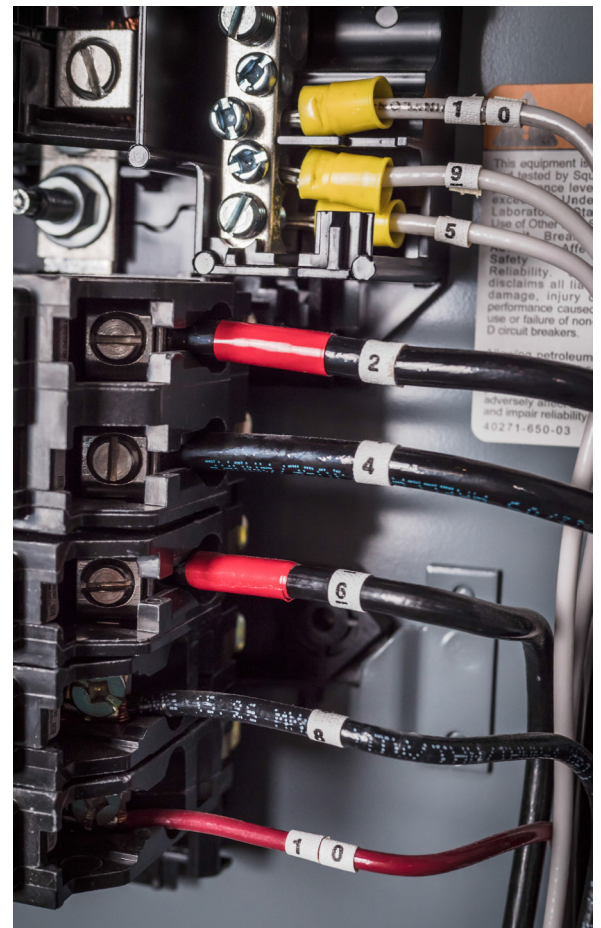
Trusted Companion

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 screw driver 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™ 160

General Use Vinyl Electrical Tape

When you need a dependable, multi-purpose general purpose PVC electrical tape, use 3M™ Temflex™ Tape 160. 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 176°F (0°C to 80°C)

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

Light to
Medium
Duty

Protective
Jacketing

Cable
Harness

Low
Voltage
Insulation

Moderate
Conditions

Variety of
Colors

Bundling
and Pulling
Application
Uses

Indoor &
Protected
Outdoor

The Electrical Tape

For tough indoor or simple outdoor bundling & insulation

3M™ Temflex™ 170

General Use Vinyl Electrical Tape

3M™ Temflex™ Tape 170 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.



Available Colors



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 32°F to 176°F (0°C to 80°C)
- CSA, UL 510, RoHS 1.0, REACH Certified

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 for more information.



Typical Values	3M™ Temflex™ Tape 160	3M™ Temflex™ Tape 170	Scotch® Tape 35	Scotch® Super 33+™ Tape	Scotch® Tape 130C	Scotch® Tape 23
Best For	Light to Medium Duty	Medium Duty	Medium to Heavy Duty	Medium to Heavy Duty	Medium to Heavy Duty	Medium to Heavy Duty
Target Applications	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- to high-voltage primary insulation, cable jacketing, moisture-sealing and padding	Permanent low- to high-voltage primary insulation, cable jacketing, moisture-sealing and padding
Application Environment	Moderate temperatures & conditions	Moderate temperatures & conditions	Harsh temperatures & moist or corrosive conditions	Extreme temperatures & moist or corrosive conditions	Moderate temperatures (high overload up to 130°C) & moist, corrosive or rough conditions	Moderate temperatures (high overload up to 130°C) & moist, corrosive or rough conditions
Operating Temperature ¹	32 to 176°F (0 to 80°C)	32 to 176°F (0 to 80°C)	14 to 221°F (-10 to 105°C)	0 to 221°F (-18 to 105°C)	up to 194°F (up to 90°C)	up to 194°F (up to 90°C)
Thickness	6 mils (0,15mm)	7 mils (0,177mm)	7 mils (0,177mm)	7 mils (0,177mm)	30 mils (0,762mm)	30 mils (0,76mm)
Sticking Power (Adhesion to Steel)	16 oz/in	18 oz/in	20 oz/in	28 oz/in	-	-
Stretch ² (Elongation)	200%	200%	225%	250%	850%	1000%
Strength ² (Backing Strength)	13.2 lb/in	15.4 lb/in	17 lb/in	15 lb/in	7.5 lb/in	8 lb/in
Insulation ² (Dielectric Strength)	1000V/mil	1000V/mil	1250V/mil	1150V/mil	750 V/mil	800 V/mil
Colour Details						

¹ Temperature range may vary by local agency standards.

² 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	SKU	Colour	Size	Case Qty.
Scotch Super 33+	7000057831	Black	19mm x 33m	48
Scotch 35 Blue	7000006095	Blue	19mm x 20m	100
Scotch 35 Green	7000006098	Green	19mm x 20m	100
Scotch 35 Red	7000006094	Red	19mm x 20m	100
Scotch 35 White	7000006097	White	19mm x 20m	100
Scotch 35 Yellow	7000006096	Yellow	19mm x 20m	100
Scotch 35 Grey	7000132640	Grey	19mm x 20m	100
3M Temflex 170	7100374554	Black	18mm x 20m	100
3M Temflex 170	7100374374	White	18mm x 20m	100
3M Temflex 170	7100374574	Red	18mm x 20m	100
3M Temflex 170	7100374554	Black	18mm x 20m	100
3M Temflex 170	7100374534	Green	18mm x 20m	100
3M Temflex 170	7100374483	Yellow	18mm x 20m	100
3M Temflex 170	7100374534	Green	18mm x 20m	100
3M Temflex 170	7100374368	Rainbow Pack	18mm x 20m	10 (Packs)
3M Temflex 160	7100374565	Yellow/Green Stripe	19mm x 20m	100
3M Temflex 160	7100374339	Red	19mm x 20m	100
3M Temflex 160	7100374454	Blue	19mm x 20m	100
3M Temflex 160	7100374484	White	19mm x 20m	100
3M Temflex 160	7100374494	Black	19mm x 20m	100
3M Temflex 160	7100374341	Rainbow Pack	19mm x 20m	10 (Packs)



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

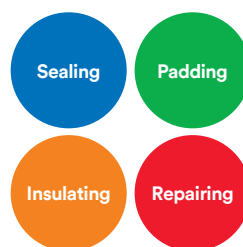
- Corrosion resistant
- Puncture resistant
- Works with epoxy and polyurethane resin
- Primary insulation up to 600V
- Cable jacketing
- Harness cables
- Durable mechanical protection

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



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. 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.**

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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