











# Electrical Tapes Selection Guide









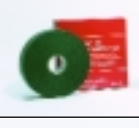


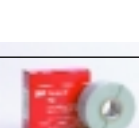





**3M** *Innovation*



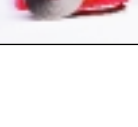
# 3M Electrical Tape Chart

PRODUCT NAME		PRODUCT DESCRIPTION	TAPE THICKNESS	SIZES AVAILABLE		TEMPERATURE RATING	TYPICAL APPLICATIONS
Vinyl Electrical Tapes							
Scotch® Super 33+ Professional Use Premium Vinyl Electrical Tape		Highly conformable, super stretchy in all weather applications; resists UV rays, abrasion, corrosion, alkalies and acids. Flame retardant.	7 mil	3/4" x 20' 3/4" x 44' 3/4" x 36 yd.	3/4" x 66' 1" x 36 yd. 1 1/2" x 36 yd.	220°F 105°C	Primary insulation for splices up to 600V. Protective jacketing.
Scotch 35 Professional Use Vinyl Electrical Tape for Color Coding		Nine fade resistant colors, super stretchy and conformable, excellent insulating properties. Resist UV rays, abrasion, corrosion, alkalies and acid.	7 mil		1/2" x 20' 3/4" x 66'	220°F 105°C	Phase identification and marking. Harnessing.
Scotch Super 88 Professional Use Premium Vinyl Electrical Tape		All weather; heavy duty, professional use, abrasion resistant, fast build up.	8.5 mil	3/4" x 44' 3/4" x 66' 3/4" x 36 yd. 1" x 36 yd.	1 1/2" x 44' 1 1/2" x 36 yd. 2" x 36 yd.	220°F 105°C	Primary insulation for splices up to 600V. Protective jacketing.
Scotch 22 Heavy Duty Vinyl Electrical Tape		Thicker for increased mechanical strength and abrasion resistance. Electrical insulating.	10 mil	1/2" x 36 yd. 3/4" x 36 yd. 1" x 36 yd.	1 1/2" x 36 yd. 2" x 36 yd.	176°F 80°C	Bus bar insulation. Cable jacket repair.
Scotch 66R Vinyl Electrical Tape		Excellent mechanical strength, abrasion resistance and electrical insulating properties.	10 mil	Common sizes: Other sizes available upon request	3/4" x 36 yd. 1" x 36 yd.	220°F 105°C	Primary insulation for 600V bus bar. Protective jacketing.
Highland™ Commercial Grade Electrical Tape		Flexible, stretchy, conformable, commercial grade vinyl. Flame retardant.	7 mil		3/4" x 66'	176°F 80°C	Protective jacketing. Harnessing.
Temflex™ 1700 General Purpose Vinyl Electrical Tape		Economical, flexible, general purpose tape	7 mil	3/4" x 36 yd. 3/4" x 60' 3/4" x 66'		176°F 80°C	Protective jacketing. Harnessing.

Corrosion Protection Tapes						
Scotchrap™ 50 and 51 All-weather Corrosion Protection Tapes  *Must be used w/ Scotchrap Pipe Primer		All-weather performance and corrosion resistance. Resistant to impact and abrasions.	50 is 10 mil 51 is 20 mil	1" x 100' 2" x 100' 3" x 100'	4" x 100' 6" x 100'	176°F 80°C  Corrosion protection on pipes, conduits and fittings, etc.
Temflex™ 1100 Tape  *Must be used w/ Scotchrap Pipe Primer		General purpose corrosion resistant tape. Good abrasion resistance.	10 mil	2" x 100'		176°F 80°C  Corrosion protection on conduits, fittings and joints, etc.
Scotchrap Pipe Primer		Quick-dry, non-sag rubber base primer that prepares metal surfaces for tape application.		1 gallon can		176°F 80°C  For use with Scotchrap 50 and 51 tapes and Temflex 1100 Tape.

Special Use Tapes						
Scotch 48 Thread Sealant and Lubricant		Pipe thread sealant that provides a leakproof seal.	3 mil	1/4" x 260" 1/2" x 260" 1/2" x 520" 1/2" x 1296"	500°F 260°C	Leakproof seal helps prevent cross threading on pipe threads.
Temflex 1755 Cotton Friction Tape		High grade friction tape. Good abrasion resistance.	15 mil	3/4" x 60' 3/4" x 82.5' 1 1/2" x 82.5'	176°F 80°C	Abrasion protection for splices and connections.
Highland 6969 Duct Tape		High performance duct tape, excellent adhesion, tears easily. Silver.	10.8 mil	2" x 60 yd. 3" x 60 yd.	200°F 93°C	Moisture proofing plumbing, duct sealing, and protecting.
Tartan™ 3939 Duct Tape		General purpose duct tape; good adhesion, strong backing. Silver.	9.8 mil	1" x 60 yd. 2" x 60 yd. 3" x 60 yd. 4" x 60 yd.	150°F 65°C	Sealing, heating ventilation and air conditioning ducts.
Scotch 2000 Electrician's Duct Tape		General purpose easy tear vinyl duct tape	6 mil	1.9" x 50 yd.		General holding and bundling.

PRODUCT NAME		PRODUCT DESCRIPTION	TAPE THICKNESS	SIZES AVAILABLE		TEMPERATURE RATING	TYPICAL APPLICATIONS
Insulating & Splicing Tapes							
Scotch® 13 Semiconducting Tape		Rubber tape, semi conductive. Compatible with cable semi-conducting jackets.	30 mil	3/4" x 15'		continuous: 194°F / 90°C short term: 266°F / 130°C	Electrically round high voltage connections. Provide cable shield continuation.
Scotch 23 Rubber Tape		High and low voltage insulating, self-fusing rubber tape.	30 mil	3/4" x 30' 1" x 20' 1" x 30'	1 1/2" x 30' 2" x 30'	continuous: 194°F / 90°C short term: 266°F / 130°C	Primary electrical insulation for splicing all solid dielectric cables through 69kV.
Scotch 24 Shielding Tape		All metal open weave shielding braid, conformable, temperature stable.		1" x 15' 1" x 100'			Continue electrostatic shielding across splice.
Scotch 25 Grounding Braid		All metal woven braid; high current carrying capacity of 6 AWG wire; solderable.		1/2" x 15'			Conformable ground braid for splices and terminations.
Scotch 27 and 69 Glass Cloth Tapes		Woven insulating glass cloth; high temperature resistance; high mechanical strength.	7 mil	27 1/2" x 66' 3/4" x 66' 3/4" x 60 yd. 1" x 60 yd. 1 1/2" x 60 yd.	69 1/2" x 66' 1/2" x 36 yd. 3/4" x 66' 3/4" x 36 yd. 1" x 36 yd.	27 is Class B temp (266°F / 130°C) 69 is class H temp (356°F / 180°C)	Heat-stable insulation for furnace and oven controls, motor leads, and switches.
Scotch 70 Self-Fusing Silicone Rubber Tape		Arc and track resistant; self fusing, long lasting silicon rubber.	12 mil	1" x 30'		356°F 180°C	Protective overwrap for terminating high voltage cables.
Scotch 77 Electric Arc Proofing Tape		Protects cable until limiting devices can interrupt faulted current.	30 mil	1 1/2" x 20' 3" x 20'			Use on high-energy cables that are within 18" of other high energy cables.
Scotch 130C Linerless Rubber Splicing Tape		High voltage insulating; thermally conductive; self-bonding.	30 mil	3/4" x 30' 1" x 10' 1" x 15'	1" x 30' 1 1/2" x 30' 2" x 30'	continuous: 194°F / 90°C short-term: 266°F / 130°C	Primary electrical insulation for splicing all solid dielectric cables through 69kV.
3M™ 2242 Linerless Splicing Compound		General purpose rubber insulating tape.	30 mil	3/4" x 15' 1 1/2" x 15' 2" x 15'		continuous: 194°F / 90°C short-term: 266°F / 130°C	All-voltage splicing, jacketing, and general insulating.
Temflex™ 2155 Rubber Splicing Tape		Economical low voltage rubber insulating tape; self-fusing.	30 mil	3/4" x 22' 1 1/2" x 22'		176°F 80°C	Insulating wire splices, split bolt connections and motor leads up to 600V.
Scotchfil™ Electrical Insulation Putty		Black, self-fusing, insulating putty in tape form.	125 mil	1 1/2" x 60"		176°F 80°C	Insulate connections up to 600V. Smooth bus bar irregularities
Scotch 2510 and 2520 Varnished Cambric Tapes		Yellow, varnish coated cotton cloth 2510: no adhesive; 2520: adhesive.	2510 is 7 mil 2520 is 8 mil	3/4" x 60' 3/4" x 36 yd. 1" x 36 yd.	1/2" x 36 yd. 2" x 36 yd. 36" x 25 yd.	220°F 105°C	Insulate bus bars, motor leads (for re-entry), service drop connections.

<b>Sealing &amp; Insulating Tapes</b>					
Scotch 2200 and 2210 Vinyl Mastic / Scotch 06147 and 06149 Moisture Sealant 	Excellent moisture sealant; tough vinyl backing; electrical insulating.	2200 is 125 mil 2210 is 90 mil 6147 is 45 mil 6149 is 45 mil	3 1/4" x 4 1/2" pads 6 1/2" x 4 1/2" pads 4" x 10' roll 2 1/2" x 10' 2 1/2" x 2 1/2"	176°F 80°C	Insulate moisture-seal and pad connections up to 600V.
Scotch 2228 Rubber Mastic Tape 	Self-fusing rubber based compound bonded to a moisture sealing mastic; all weather.	65 mil	1" x 10' 2" x 3' 2" x 10'	194°F / 90°C emergency overload of 266°F / 130°C	Insulate, pad and seal bus bar and splice connections.
Scotch-Seal™ 2229 Mastic Tape Compound 	Conformable and durable mastic. Excellent moisture and environmental seal.	125 mil	3 3/4" x 10' 1" x 10' 2 1/2" x 3 3/4" pads 3 3/4" x 3 3/4" pads 3 3/4" x 6 1/2" pads	176°F 80°C	Sealing high voltage cables and accessories.

PRODUCT NAME		PRODUCT DESCRIPTION	TAPE THICKNESS	SIZES AVAILABLE	TYPICAL APPLICATIONS
<b>Packaging Tapes</b>					
Scotch® 893 Industrial Grade Filament Tape		Industrial grade filament and packaging tape that is abrasion and moisture resistant.	6 mil	1/2" x 60 yd. 3/4" x 60 yd. 1" x 60 yd.	High performance and long term adhesion for strapping and reinforcing.
Highland™ 897 Commercial Grade Filament Tape		Commercial grade filament tape with synthetic rubber resin adhesive.	6 mil	1/2" x 60 yd. 3/4" x 60 yd. 1" x 60 yd.	General purpose, bundling and reinforcing.
Scotch 3750 Superior Performance Box Sealing Tape		Superior performance packaging tape used for heavy-duty packaging applications.	3.2 mils	1 4/5" x 54 yd.	Single strip closure of regular slotted containers (RSCS)
Highland 3710 Commercial Box Sealing Tape and 371 Industrial Packaging Tape		3710 Commercial grade box sealing tape. 371 Industrial packaging tape.	3710 is 2 mil 371 is 1.9 mil	3710 is: 1 4/5" x 54 yd. 1 4/5" x 109 yd. 371 is: 2 4/5" x 54.6 yd. 2 4/5" x 109.3 yd.	General purpose box sealing.
Scotch 3732 and 3734 Printed Box Sealing Tape		3732 "If seal is broken check" 3734 "Fragile handle with care" Tan with red printing	N/A	1 4/5" x 109 yd.	Box sealing with warnings.
Highland 3770 Series Printed Box Sealing Tape		3771 - "If Seal is Broken Check Contents Before Accepting" 3772 - "Fragile Handle with Care" 3773 - "Rush, Rush, Rush" 3774 - "This Side Up" 3775 - "Mixed Merchandise"	1.9 mil	1 9/10" x 104 yd.	Utility sealing and identification.
Scotch 232 High Performance Masking Tape		Premium grade paper masking tape.	5.7 mil	3/4" x 60 yd. 1" x 60 yd. 2" x 60 yd.	Paint masking tape, building and protecting.
Scotch 234 General Purpose Masking Tape		General purpose paper masking tape.	5.4 mil	3/4" x 60 yd. 1" x 60 yd. 2" x 60 yd.	Holding, sealing non-critical masking.
Tartan™ 200 Masking Tape		Utility purpose paper tape.	4.5 mil	1/2" x 60 yd. 3/4" x 60 yd. 1" x 60 yd. 1 1/2" x 60 yd. 2" x 60 yd. 3" x 60 yd. 4" x 60 yd.	Non-critical masking and holding.
Scotch 8240 and 8260 Pouch Tape		Pressure sensitive tape with rectangular window and orange border.	2.5 mil	8240 is 5" x 6" 8260 is 5.5" x 9"	Display documents on the exterior of package for easy viewing by recipient.
Scotch 8210 Film Tape		Lightly pink tinted label.	2.5 mil	2" x 72 yd. 3" x 72 yd. 4" x 72 yd. 5" x 72 yd. 6" x 72 yd.	Protect label from abrasions and moisture, but allow barcode scanning.
Highland 3565 Commercial Label Protection Tape		Utility grade label protection tape.	1.9 mil	3 7/10" x 104 yd.	To protect and preserve identification labels in shipping.
Scotch 8884 and 8886 Stretchable Tape		High performance transparent stretchable tape.	8884 is 5 mil 8886 is 7 mil	1 3/10" x 60 yd.	Encasing A and B type pallets for internal shipping.
Highland 6910 Cloth Gaffers Tape		High tack, easy tear coated cloth tape.	13.7 mil	2" x 60 yd.	Sealing and holding where minimum light reflection and glare are required.





**Y**ou're in a demanding industry. To be successful, you need a wide range of reliable products designed to effectively manage your daily processes. You need a supplier with a solid understanding of your industry and the technology that drives it. Quite simply, you need 3M. Our Electrical Products Division designs and manufactures a comprehensive line of products that can address your diverse applications. Widely recognized for our

innovation, reliability and global corporate strength, 3M has the products and services you need and the name you trust.

With over 30 electrical insulating, sealing and specialty tapes, 3M has the products to meet your needs. From Scotch Super 33+ vinyl tape to Scotch 130C linerless rubber splicing tape to Scotch 2200 mastic pads, 3M electrical tapes provide exceptional performance and reliability.



**In your business, innovative solutions, technology and reliability are essential. 3M delivers that and more. 3M has the power of a diversified, global manufacturer with more than 60,000 products in our line; a reputation for technical excellence and innovation; and**

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#### Warranty; Limited Remedy; Limited Liability.

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