

3M Electrical Tapes Product Selection Guide



Get your hands on 3M Tape!

3M now offers new and experienced electricians a chance to sharpen their skills with the complete 3M tape training kit (80-6114-2896-4). The kit contains all the tools needed for the following applications:

- Insulating & wrapping a split bolt
- Insulating & wrapping a motor lead connection
- Insulating & wrapping an inline splice
- Insulating & wrapping a bus bar

Contact your local 3M rep and ask them how you can get your hands on 3M tape today.



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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.

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 loss or damage arising from this 3M product, whether, indirect, special, incidental or consequential regardless of the legal theory asserted.**



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80-6109-4398-9C (03810.0)TG-1

3M Electrical Tape Chart

Vinyl Electrical Tapes	Product Description/Applications	Tape Thickness	Temp Range	Roll Size
Scotch® Super 33+™ Professional Grade Vinyl Electrical Tape*	Insulates splices up to 600V. Repairs cable jacketing. Resists UV rays, abrasion, corrosion, alkalis and acids. Flame retardant. UL Listed and CSA Certified.	7 mil	105°C 221°F	3/4" x 66' (19 mm x 20,1 m) 3/4" x 44' (19 mm x 13,4 m) 3/4" x 20' (19 mm x 6,0 m) 3/4" x 36 yd (19 mm x 32,9 m) 1" x 36 yd (25,4 mm x 32,9 m) 1-1/2" x 36 yd (38 mm x 32,9 m)
Scotch® Heavy Duty Grade Vinyl Electrical Tape Super 88*	Thick, heavy duty vinyl protects cable and provides faster build-up. Insulates splices up to 600V. Repairs cable jacketing. Resists UV rays, abrasion, corrosion, alkalis and acids. Flame retardant. UL Listed and CSA Certified.	8.5 mil	105°C 221°F	3/4" x 66' (19 mm x 20,1 m) 3/4" x 44' (19 mm x 13,4 m) 3/4" x 36 yd (19 mm x 32,9 m) 1" x 36 yd (25,4 mm x 32,9 m) 1-1/2" x 36 yd (38 mm x 32,9 m) 1-1/2" x 44' (38 mm x 13,4 m) 2" x 36 yd (51 mm x 32,9 m)
Scotch® Professional Grade Color Coding Vinyl Electrical Tape 35*	9 fade-resistant colors identify and mark phases/cables. Insulate splices up to 600V. Repair cable jacketing. Resists UV rays, abrasion, corrosion, alkalis and acids. Flame retardant. UL Listed and CSA Certified.	7 mil	105°C 221°F	3/4" x 60' (19 mm x 18,2 m) 1/2" x 20' (12 mm x 6,1 m) 3/4" x 66' (19 mm x 20,1 m) 1/2" x 20' (12 mm x 6,1 m)
Scotch® Extra Heavy Duty Grade Vinyl Electrical Tape 22*	Extra-thick, heavy duty vinyl protects cable and provides faster build-up. Insulates splices up to 600V. Repairs cable jacketing. Resists UV rays, abrasion, corrosion, alkalis and acids. Flame retardant. UL Listed and CSA Certified.	10 mil	80°C 176°F	1/2" x 36 yd (13 mm x 32,9 m) 3/4" x 36 yd (19 mm x 32,9 m) 1" x 36 yd (25,4 mm x 32,9 m) 1-1/2" x 36 yd (38 mm x 32,9 m) 2" x 36 yd (51 mm x 32,9 m)
3M™ Highland™ Medium Grade Vinyl Electrical Tape*	Bundles cable and pull wire. Insulate splices up to 600V. Flame retardant. UL Listed and CSA Certified.	7 mil	90°C 194°F	3/4" x 60' (19 mm x 20,1 m) 3/4" x 66' (19 mm x 20,1 m)
3M™ Temflex™ Economy Grade Vinyl Electrical Tape 1700	Bundle cable, wire pull and repair cable jacketing. Flame retardant. UL Listed and CSA certified.	7 mil	80°C 176°F	3/4" x 60' (19 mm x 18,2 m) 3/4" x 36 yd (19 mm x 32,9 m) 3/4" x 66' (19 mm x 20,1 m) 1" x 66' (25,5 mm x 20,1 m)
3M™ Temflex™ Mining Grade Vinyl Electrical Tape 1700P	Insulate and repair mining cable jacketing. Flame retardant. Printed for use in MSHA-approved splicing kits.	7 mil	80°C 176°F	3/4" x 66' (19 mm x 20,1 m) 1-1/2" x 44' (38 mm x 13,4 m) 1-1/2" x 66' (38 mm x 20,1 m) 3/4" x 66' (19 mm x 20,1 m) 1-1/2" x 44' (38 mm x 13,4 m) 1-1/2" x 66' (38 mm x 20,1 m)

Insulating and Sealing Tapes	Product Description/Applications	Tape Thickness	Temp Range	Roll Size
Scotch® Professional Grade Linerless Rubber Splicing Tape 130C*	Insulate and splice solid dielectric cables through 69kV. Linerless, high-voltage insulating, thermally conductive, self-bonding rubber.	30 mil	continuous: 90°C / 194°F short-term: 130°C / 266°F	1" x 30' (25 mm x 9,1 m) 3/4" x 30' (19 mm x 9,1 m) 1-1/2" x 30' (38 mm x 9,1 m) 2" x 30' (50 mm x 9,1 m) 1" x 10' (25 mm x 3,05 m) 1" x 15' (25 mm x 4,6 m)
Scotch® Professional Grade Linerless Rubber Splicing Tape 23	Insulate and splice solid dielectric cables through 69kV. Linerless, insulating, thermally conductive, self-bonding rubber.	30 mil	continuous: 90°C /194°F short term: 130°C / 266°F	3/4" x 30' (19 mm x 9,1 m) 1" x 20' (19 mm x 25 m) 1" x 30' (25 mm x 9,1 m) 1-1/2" x 30' (38 mm x 9,1 m) 2" x 30' (50 mm x 9,1 m)
Scotch® Medium Grade Linerless Rubber Splicing Compound 2242*	Splice and insulate cables and connections. General purpose, linerless rubber insulating tape.	30 mil	continuous: 90°C / 194°F short-term: 130°C / 266°F	3/4" x 15' (19 mm x 4,57 m) 1-1/2" x 15' (38 mm x 4,57 m) 2" x 15' (51 mm x 4,6 m)

Insulating and Sealing Tapes	Product Description/Applications	Tape Thickness	Temp Range	Roll Size
3M™ Temflex™ Linerless Rubber Splicing Tape 2150	Economical, low-voltage, linerless rubber insulating tape. Up to 600 volts.	30 mil	80°C 176°F	3/4" x 22' (19 mm x 6,7 m) 1-1/2" x 22' (38 mm x 6,7 m)
Scotch® Professional Grade Semi-Conducting Tape 13	Rubber tape, semi-conductive. Compatible with cable semi-conducting jackets. Electrically ground high-voltage connections. Provides cable shield continuation.	30 mil	continuous: 90°C /194°F short term: 130°C / 266°F	3/4" x 15' (19 mm x 4,5 m) 1-1/2" x 66' (38 mm x 20,1 m)
Scotch® Professional Grade Silicone Rubber Tape 70	Protects and overwraps high-voltage cable terminations and serves as base layer to provide clean reentry into connections. Arc and track resistant. Self-fusing, long-lasting, silicone rubber.	12 mil	180°C 356°F	1" x 30' (25 mm x 9,14 m)
Scotch® Professional Grade Heavy Duty Triangular Silicone Rubber Tape 70HDT	Protects and overwraps high-voltage cable terminations, and serves as base layer to provide clean reentry into connections. Arc and track resistant. Self-fusing, long-lasting, thick silicone rubber, with a triangular tapered edge profile and a blue guideline for half-lapping.	20 mil center, 8 mil edge	180°C 356°F	1" x 30' (25 mm x 9,14 m)
Scotch® Professional Grade Shielding Tape 24	All-metal open-weave shielding braid, conformable, temperature stable. Continue electrostatic shielding across splice.	—	—	1" x 15' (25 mm x 4,5 m) 1" x 100' (25 mm x 30,4 m)
Scotch® Professional Grade Grounding Tape 25	All-metal woven braid; high current-carrying capacity of 6AWG wire. Solderable. Conformable ground braid for splices and terminations.	—	—	1/2" x 15' (12 mm x 4,57 m)

Mastics	Product Description/Applications	Tape Thickness	Temp Range	Roll Size
Scotch-Seal™ Professional Grade Mastic Sealing Tape 2229*	Provides excellent environmental and moisture seal. Conformable and durable mastic for sealing high-voltage cables and accessories. Overwrap with vinyl.	125 mil	80°C 176°F	3-3/4" x 10' (95 mm x 3,0 m) 1" x 10' (25 mm x 3,05 m)
Scotch® Professional Grade Rubber Mastic Sealing Tape 2228*	Provides excellent environmental and moisture seal. Extra-conformable and durable rubber-backed mastic for sealing high-voltage cables and accessories. "Built-in" rubber backing for added conformability. Overwrap with vinyl.	65 mil	90°C / 194°F emergency overload of 130°C / 266°F	2" x 3' (50 mm x 0,9 m) 1" x 10' (25 mm x 3,0 m) 2" x 10' (51 mm x 3,05 m)
3M Scotchfil™ Electrical Insulation Putty	Black, self-fusing, insulating putty in tape form.	125 mil	80°C 176°F	1-1/2" x 60" (38 mm x 1,53 m)
Scotch® Professional Grade Vinyl Mastic Sealing Tapes 2200, 2210, 06147, and 06149*	Provides excellent environmental and moisture seal. Conformable and durable mastic for sealing high-voltage cables and accessories. "Built-in" vinyl backing for fast application and abrasion resistance.	2200 is 125 mil 2210 is 90 mil 6147 is 45 mil 6149 is 45 mil	80°C 176°F	6-1/2" x 4-1/2" (165 mm x 144 m) pads 3-1/4" x 4-1/2" (82 mm x 144 m) pads 4" x 10' (101 mm x 3,04 m) 2-1/2" x 10' (63 mm x 3,04 m) 2-1/2" x 2-1/2" (63 mm x 63 m) pads

Corrosion Protection Tapes	Product Description/Applications	Tape Thickness	Temp Range	Roll Size
3M™ Scotchrap™ Professional Grade Corrosion Protection Tapes 50 and 51*	Protect pipe, conduits and fittings from corrosion. All-weather performance and corrosion resistance. Abrasion and impact-resistant.	50 is 10 mil 51 is 20 mil	176°F 80°C	1" x 100' (25 mm x 30,5 m) 2" x 100' (51 mm x 30,5 m) 3" x 100' (76 mm x 30,5 m) 4" x 100' (102 mm x 30,5 m) 6" x 100' (152 mm x 30,5 m)
3M™ Scotchrap™ Professional Grade Pipe Primer	Quick-dry, non-sag rubber base primer that prepares metal surfaces for tape application. For use with Scotchrap Tapes 50 & 51, Temflex Tapes 1100 & 1200.	na	80°C 176°F	1 gallon can (3,79 liters)

Corrosion Protection Tapes	Product Description/Applications	Tape Thickness	Temp Range	Roll Size
3M™ Temflex™ Economy Grade Corrosion Tape 1100 and 1100P	General purpose corrosion tape.	10 mil	80°C 176°F	2" x 100' (51 mm x 30,5 m)
3M™ Temflex™ Economy Grade Corrosion Tape 1200 and 1200P	General purpose corrosion tape.	20 mil	80°C 176°F	2" x 100' (51 mm x 30,5 m)

Special Use Tapes	Product Description/Applications	Tape Thickness	Temp Range	Roll Size
Scotch® Thread Sealant and Lubricant Tape 48*	Pipe thread sealant that provides a leakproof seal. Leakproof seal helps prevent cross threading on pipe threads.	3 mil	260°C 500°F	1/4" x 260" (6,3 mm x 7 m) 1/2" x 260" (13 mm x 7 m) 1/2" x 520" (13 mm x 13 m) 1/2" x 1296" (13 mm x 33 m)
Scotch® Glass Cloth Tape 27 and 69*	Woven insulating glass cloth; high temperature resistance. High mechanical strength. Heat stable insulation for furnace and oven controls, motor leads & switches.	27 is 7 mil 69 is 7.5 mil	27 is Class B temp (130°C / 266°F) 69 is class H temp (180°C / 356°F)	1/2" x 66' (12 mm x 20,1 m) 3/4" x 260" (13 mm x 7 m) 3/4" x 60 yd (19 mm x 54,8 m) 1" x 60 yd (25 mm x 54,8 m) 1-1/2" x 60 yd (38 mm x 54,8 m) 1/2" x 36 yd (13 mm x 33 m) 3/4" x 36 yd (19 mm x 33 m) 1" x 36 yd (25 mm x 33 m)
Scotch® Barricade Tape 300	Durable polyethylene plastic, bold 2" letters, long roll length, will not tear easily, attracts attention. Barricade applicable in both large and small areas.	3 mil	N/A	3" x 300' 3" x 1000'
3M™ Duct Tape 6969	Extra heavy duty duct tape, excellent adhesion, tears easily. Moisture proofing plumbing, duct sealing and protecting.	10.7 mil	93°C 200°F	1-7/8" x 60 yd (48 mm x 54,8 m) 2-13/16" x 60 yd (72 mm x 54,8 m)
3M™ Duct Tape 3939	Heavy duty duct tape, excellent adhesion, strong backing. Sealing heating ventilation and air conditioning ducts.	9 mil	65°C 150°F	1" x 60 yd (24 mm x 54,8 m) 1-7/8" x 60 yd (48 mm x 54,8 m) 2-13/16" x 60 yd (72 mm x 54,8 m) 3-3/4" x 60 yd (96 mm x 54,8 m)
3M™ Duct Tape 2929	Utility grade, conformable cloth duct tape	6 mil	93°C 200°F	1-7/8" x 50 yd (48 mm x 45,7 m) 2-13/16" x 50 yd (72 mm x 45,7 m)
3M™ Outdoor Masking and Stucco Tape 5959*	Construction, marine and maintenance, 90 day UV resistant waterproof backing	12 mil	93°C 200°F	1-7/8" x 45 yd (48 mm x 41,1 m)
3M™ Value Duct Tape 1900	Light duty sealing and holding for non-critical uses, water resistant	5.8 mil	93°C 200°F	1-7/8" x 50 yd (48 mm x 45,7 m) 2-13/16" x 50 yd (72 mm x 45,7 m)
3M™ Performance Plus Duct Tape 8979	High performance tape that removes cleanly up to six months after exposure to sunlight and temperature extremes. Aggressive adhesive and high tensile strength for demanding applications	12.6 mil	93°C 200°F	1" x 60 yd. (24 mm x 54,8 m) 2" x 60 yd. (51 mm x 54,8 m)
3M™ Temflex™ Cotton Friction Tape 1755	Provides extra abrasion resistance for splices and connections.	15 mil	80°C 176°F	3/4" x 60' (19 mm x 18,28 m) 3/4" x 82-1/2' (19 mm x 25 m) 1-1/2" x 82-1/2' (38 mm x 25 m)

*  (Not all tapes are US tapes)

Many 3M Electrical Products including electrical tapes, are ROHS Compliant. To check the compliance status of a 3M Electrical Product, go to www.3m.com/electrical