

3M Tapes

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|--------------------------------------|--------------|--|---------------|
| Glossary of Taping Terms | pg. 2 | Corrosion Protection Tapes | pg. 11 |
| Vinyl Electrical Tapes | pg. 3 | Special Use Tapes | pg. 13 |
| Insulating and Splicing Tapes | pg. 6 | Packaging and Palletizing Tapes | pg. 17 |
| Sealing and Insulating Tapes | pg. 9 | | |

In the early 1940s, vinyl plastic emerged as a highly versatile material for a wide range of applications, from shower curtains to cable insulation. Research chemists and engineers at 3M set out to create a dependable, pressure-sensitive tape made of vinyl film that would have the required electrical, physical and chemical properties. Finally, in January 1946, inventors Snell, Oace, and Eastwood of 3M applied for a patent for a vinyl electrical tape. The first commercially available version of the tape was sold for use as a wire-harness wrapping. Interestingly, this original black tape wasn't black at all. The first 3M tape sold was yellow, and later versions were white. White tape, because of its instability in ultraviolet light, was eventually replaced with black tape, although colored vinyl tapes are still used as identification and marking tapes. Black became the standard industry color for vinyl tape, primarily because of its ultraviolet resistance. 2006 marked the 60th Anniversary of Scotch® Super 33+™ Vinyl Electrical Tape, and 3M has improved the tape sixteen times since its invention.

Taping Tips

Although challenging in its make-up and manufacture, vinyl electrical tape is relatively straightforward in its use. Nevertheless, to ensure the safest, most reliable use, always:

- Apply tape with enough stretch to conform to the objects you're wrapping. Be sure to let the last couple of inches relax before tabbing it down to prevent unwinding (sometimes called "flagging").
- Wrap an irregular mechanical connector, such as a split bolt, with rubber or mastic tape to pad sharp edges, before over wrapping it with vinyl electrical tape.
- Wrap cone-shaped (high voltage splices) "uphill" – that is, from the smallest to the largest point. This way you always secure the previous layer.
- Keep fingers close together when tearing tape. The farther apart they are, the more the tape will stretch before it tears.
- Use the right tape for the right conditions. Vinyl tapes are rated for cold-weather application in two classes: 32°F (0°C) and 0°F (-18°C). Tapes formulated for high-temperature environments are typically rated 176°F (80°C) or 220°F (105°C).

| | Vinyl Tapes | Rubber Tapes | Mastic & Filler Putty Tapes | Varnish Cambric | Arc Proofing Tapes | Silicone Tapes | Glass Cloth Tapes |
|-----------------------|-------------|--------------|-----------------------------|-----------------|--------------------|----------------|-------------------|
| Protective jacketing | X | | | | X | | |
| Electrical insulation | X | X | X | | X | X | X |
| Moisture sealing | | X | X | | | X | |
| ID and color-coding | X | | | | | | |
| Harness and bundling | X | | | | | | |
| Mechanical padding | | X | X | | | X | |
| Shaping | | X | X | | | X | |
| Arc proofing | | | | | X | | |
| Connection reentry | | | | X | | X | |



Wrapping Tips

Type of Tape

Vinyl Electrical Tapes – Jacketing and Mechanical Protection

Rubber Tapes – Electrical Insulation, Mechanical Padding, Water Sealing and Shaping

High Voltage Tapes – Insulating and Semi-conductive Layers

Mastic Compounds – Insulating, Mechanical Padding, Moisture Sealing and Shaping

Number of Layers/Application Instructions

Always use a minimum of two half-lapped layers. The last layer should be wrapped in a more relaxed manner—let the last wrap relax to prevent the layer from flagging.

Wrap tape tightly to achieve the water tight seal. Rubber tapes are typically overwrapped with vinyl tape.

Apply outside of roll to the cable, in highly stretched half-lapped layers. Never use a semi-conductive tape as an insulation.

Mastic compounds are to be overwrapped with vinyl tapes to initiate flow and watertight seal. Do not apply excessive amount of mastic to prevent oozing.

Glossary of Taping Terms

Adhesive – The medium that allows the backing to be quickly, positively and efficiently positioned to do its job.

Adhesion to backing – The bond produced by contact between a pressure-sensitive adhesive and the tape backing when one piece of tape is applied to the back of another piece of the same tape.

Backing – The material that performs the tape's desired functions (insulation, protection, identification, holding).

Conformability – The ability of tape to fit snugly or make essentially complete contact with the surface of an irregular object without creasing or folding. Any tape can be applied to any surface, but it may not conform.

Dielectric strength – The voltage that a tape will withstand without allowing passage of current through it.

Elastic memory – A tendency of some tape backings to attempt to return to their original length after being elongated.

Electrolytic corrosion factor – A measure of the tape's corrosive effect on a copper conductor. This is particularly important in the selection of tapes for use as electrical insulation.

Elongation – The distance a tape will stretch lengthwise before breaking, expressed in a percentage. Elongation is an indication of conformability.

Flagging – When the end of a length of tape peels away from the surface after the tape has been applied.

Gapping – Openings between layers of tape within a roll.

Holiday – A small defect that lowers the dielectric strength at the point of the defect.

Migration – The movement, over a long period of time, of an ingredient from one surface to another when the two are in contact. This may occur between tape components or between a tape and the surface to which it is applied.

Oozing – A "squeezing out" of the adhesive from between the layers of tape so that the sides of the roll are very tacky.

Peaking – Large "upheavals" in the outer layers of a roll of tape, when several layers bunch and protrude outward. Creates gapping within the roll.

Peel adhesion – The force required to pull a strip of tape from a surface at a specified angle and speed. Usually expressed in ounces per inch width.

Pressure-sensitive – A term commonly used to designate a category of adhesive tapes that, in dry (solvent-free) form, are aggressively and permanently tacky at room temperature. They also firmly adhere to a variety of dissimilar surfaces upon contact without the need of more than finger or hand pressure. Despite their aggressive tackiness, however, these tapes can be handled with the fingers and removed from smooth surfaces without leaving a residue.

Primer – Material applied to the underside of the backing that prevents the adhesive from adhering to both sides of the backing.

Tacky – A lab synonym for "sticky," or highly adhesive. Sometimes used to express the idea of pressure sensitivity.

Telescoping – A sliding of the tape layers one over the other until the roll assumes a funnel shape.

Thermosetting – Adhesive that sets or hardens on first exposure to heat, and remains set regardless of subsequent temperature cycles.



Tape Training Kit Flyer - 80-6016-0212-3

CD - 80-6016-0213-1

Student Kit - 80-6114-2896-4

Vinyl Electrical Tapes

Scotch® Super 33+™ Vinyl Electrical Tape



Scotch® Super 33+™ Vinyl Electrical Tape is a premium grade, all-weather vinyl electrical insulating tape. Super 33+ is conformable for cold weather application to 0°F (-18°C) and is designed to perform in a continuous temperature environment up to 220°F (105°C). An

aggressive adhesive and elastic backing enables Super 33+ to easily conform to irregular surfaces for moisture tight electrical and mechanical protection. Super 33+ provides flexibility and easy handling for all around performance.

Scotch® Vinyl Electrical Tape 35



Scotch Vinyl Electrical Color Coding Tape 35 is a premium-grade electrical tape that stretches to conform to virtually any shape that requires color-coded insulation. Scotch 35 is abrasion- and weather-resistant, with excellent mechanical and electrical insulation properties that wraps smoothly and holds tight over a wide range of temperatures. There are nine stay-fast colors for color-coding applications.



Scotch® Super 88

Scotch® Vinyl Electrical Tape Super 88



Scotch Vinyl Electrical Tape Super 88 is a 8.5 mil heavy duty, premium grade all-weather vinyl electrical insulating tape. Super 88 maintains conformability for cold weather applications:

- better mechanical/abrasion resistance
- quicker build-up

Scotch® Vinyl Insulation Tape 22

Scotch Vinyl Insulation Tape 22 is one of 3M's thickest (10-mil) vinyl electrical tapes. It is designed for insulation applications that require greater mechanical strength and abrasion resistance. Scotch 22 seals in all kinds of weather and provides moisture-tight electrical and mechanical protection with fewer wraps than thinner tapes.

Scotch® Vinyl Electrical Tape 66R

Conformable 10-mil thick Scotch Vinyl Tape 66R is designed to perform in a continuous temperature environment up to 220°F (105°C). It has excellent resistance to abrasion, moisture and varying weather conditions (including ultraviolet exposure). Scotch 66R, with its combination of elastic PVC backing and rubber adhesive, provides moisture-tight electrical and mechanical protection.

3M Electrical Tapes Training Kit

In this kit you will find supplies for the following applications:

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


















Features — Advantages — Benefits

Premium Vinyl Electrical Tapes

| | | |
|---|--|---------------------------------------|
| All-weather tape design | Best adhesion and handling in all weather conditions | Makes job easier and eliminates redos |
| Resists weather, UV resistance, abrasion, and corrosion | Long lasting | Lower maintenance cost |
| Far exceeds minimum agency requirements | Highest quality in product category | Provides freedom from worry |

Specifications for Vinyl Electrical Tapes

| Product Number | Product Description | Tape Thickness | U.V. Resistance | Temp. Rating | Typical Applications | Specs./ Certifications and Listings |
|---|--|-----------------|----------------------------|-----------------------------|--|--|
|  | Scotch® Super 33+™ Professional Use Premium Vinyl Electrical Tape, black | 7 mil | Exceeds UL510 requirements | 221°F 105°C | Primary insulation for splices up to 600V. Protective jacketing. | A-A-55809 ASTM D-3005 Type I  LR48769 |
|  | Scotch® Professional Use Vinyl Electrical Tape 35 for Color Coding | 7 mil | Exceeds UL510 | 221°F 105°C requirements | Phase identification & marking. Harnessing. | A-A-55809  LR48769 |
|  | Scotch® Professional Use Premium Vinyl Electrical Tape Super 88, black | 8.5 mil | Exceeds UL510 requirements | 221°F 105°C requirements | Primary insulation for splices up to 600V. Protective jacketing. | ASTM D-3005 Type II  LR48769 |
|  | Scotch® Heavy Duty Vinyl Electrical Tape 22, black | 10 mil | Exceeds UL510 requirements | 176°F 80°C | Bus bar insulation. Cable jacket repair. | ASTM D-2301 Type II  LR48769 |
|  | Scotch® Vinyl Electrical Tape 66R, black | 10 mil UL510 | Exceeds 105°C requirements | 221°F for 600V bus bar. | Primary insulation Protective jacketing. |  |
|  | 3M™ Highland™ Commercial Grade Electrical Tape, black | 7 mil | Meets UL510 requirements | 194°F 90°C | Protective jacketing. Harnessing. Bundling. | ASTM D-2301 Type I  LR48769 |
|  | 3M™ Temflex™ General Purpose Vinyl Electrical Tape 1700, black | 7 mil | Meets UL510 requirements | 176°F 80°C | Protective jacketing. Harnessing. Bundling. | ASTM D-2301 Type I  LR48769 |
|  | 3M™ Electrical Tape Training Kit | N/A | N/A | N/A | N/A | N/A |

Ordering Information for Vinyl Electrical Tapes

| Product Number | UPC (054007-) | Size | Inner Unit Pack | Case Qty. |
|--|---------------|----------------------------------|-----------------|-----------|
| Scotch® Super 33+™ Vinyl Electrical Tape, black | | | | |
| Super 33+ | 06130 | 3/4" x 20' (19 mm x 6,1 m) | 10/box | 100 rolls |
| Super 33+ | 10075 | 3/4" x 44' (19 mm x 13,4 m) | 1/can, 10/ctn | 100 rolls |
| Super 33+ | 00053 | 3/4" x 36 yd. (19 mm x 32,9 m) | N/A | 48 rolls |
| Super 33+ | 06132 | 3/4" x 66' (19 mm x 20,1 m) | 10/ctn | 100 rolls |
| Super 33+Disp. | 10216 | 3/4" x 66' (19 mm x 20,1 m) | 1/disp, 10/ctn | 100 rolls |
| Super 33+ | 08949 | 1" x 36 yd. (25,4 mm x 32,9 m) | N/A | 48 rolls |
| Super 33+ | 50236 | 1-1/2" x 36 yd. (38 mm x 32,9 m) | N/A | 50 rolls |
| 3M™ Electrical Tape Training Kit | 56308* | N/A | 1 Kit | 1 Kit |

*UPC Prefix 051128



Product Referral Generator

| | |
|---|---------|
| Padding | pg. 9 |
| Moisture Sealing | pg. 9 |
| Splicing | pg. 265 |
| Connecting – Lugs and Connectors | pg. 139 |

Ordering Information for Vinyl Electrical Tapes (continued)

| Product Number | UPC (054007-) | Size | | Inner Unit Pack | Case Qty. |
|--|---------------|-------------------------------------|-------------------------|-------------------|-----------|
| Scotch® Vinyl Electrical Tape 35 for Color Coding | | | | | |
| 35 Blue | 10240 | 1/2" x 20' | (13 mm x 6,1 m) | 1/cello, 10/ctn | 100 rolls |
| 35 Blue | 10836 | 3/4" x 66' | (19 mm x 20,1 m) | 1/can, 10/ctn | 100 rolls |
| 35 Brown | 10299 | 1/2" x 20' | (13mm x 6,1 m) | 1/cello, 10/ctn | 100 rolls |
| 35 Brown | 10885 | 3/4" x 66' | (19 mm x 20,1 m) | 1/can, 10/ctn | 100 rolls |
| 35 Gray | 10281 | 1/2" x 20' | (13 mm x 6,1 m) | 1/cello, 10/ctn | 100 rolls |
| 35 Gray | 00072 | 3/4" x 66' | (19 mm x 20,1 m) | 1/can, 10/ctn | 100 rolls |
| 35 Green | 10265 | 1/2" x 20' | (13 mm x 6,1 m) | 1/cello, 10/ctn | 100 rolls |
| 35 Green | 10851 | 3/4" x 66' | (19 mm x 20,1 m) | 1/can, 10/ctn | 100 rolls |
| 35 Orange | 10273 | 1/2" x 20' | (13 mm x 6,1 m) | 1/cello, 10/ctn | 100 rolls |
| 35 Orange | 10869 | 3/4" x 66' | (19 mm x 20,1 m) | 1/can, 10/ctn | 100 rolls |
| 35 Red | 10224 | 1/2" x 20' | (13 mm x 6,1 m) | 1/cello, 10/ctn | 100 rolls |
| 35 Red | 10810 | 3/4" x 66' | (19 mm x 20,1 m) | 1/can, 10/ctn | 100 rolls |
| 35 Violet | 49923 | 1/2" x 20' | (13 mm x 6,1 m) | 1/cello, 10/ctn | 100 rolls |
| 35 Violet | 11271 | 3/4" x 66' | (19 mm x 20,1 m) | 1/can, 10/ctn | 100 rolls |
| 35 White | 10232 | 1/2" x 20' | (13 mm x 6,1 m) | 1/cello, 10/ctn | 100 rolls |
| 35 White | 10828 | 3/4" x 66' | (19 mm x 20,1 m) | 1/can, 10/ctn | 100 rolls |
| 35 Yellow | 10257 | 1/2" x 20' | (13 mm x 6,1 m) | 1/cello, 10/ctn | 100 rolls |
| 35 Yellow | 10844 | 3/4" x 66' | (19 mm x 20,1 m) | 1/can, 10/ctn | 100 rolls |
| 35 Multi-color Pack (Bl, Gn, Re, Ye, Wh)* | 59073** | 1/2" x 20' | (13 mm x 6,1 m) | 5 rolls/pack | 60 rolls |
| Scotch® Vinyl Electrical Tape Super 88, black | | | | | |
| Super 88 | 10307 | 3/4" x 44' | (19 mm x 13,4 m) | 1/can, 10/ctn | 100 rolls |
| Super 88 | 06143 | 3/4" x 66' | (19 mm x 20,1 m) | 1/can, 10/ctn | 100 rolls |
| Super 88 | 10323 | 3/4" x 36 yd. | (19 mm x 32,9 m) | 1/box, 12/ctn | 48 rolls |
| Super 88 | 10331 | 1" x 36 yd. | (25,4 mm x 32,9 m) | N/A | 48 rolls |
| Super 88 | 10364 | 1-1/2" x 44' | (38 mm x 13,4 m) | 1/box, 10/ctn | 100 rolls |
| Super 88 | 10349 | 1-1/2" x 36 yd. | (38 mm x 32,9 m) | N/A | 12 rolls |
| Super 88 | 10356 | 2" x 36 yd. | (51 mm x 32,9 m) | 1/box | 12 rolls |
| Note: Other widths and lengths available upon request. | | | | | |
| Scotch® Heavy-Duty Vinyl Electrical Tape 22, black | | | | | |
| 22 | 10026 | 1/2" x 36 yd. | (13 mm x 32,9 m) | N/A | 48 rolls |
| 22 | 10034 | 3/4" x 36 yd. | (19 mm x 32,9 m) | 1/box 12/ctn | 48 rolls |
| 22 | 10042 | 1" x 36 yd. | (25,4 mm x 32,9 m) | N/A | 48 rolls |
| 22 | 10059 | 1-1/2" x 36 yd. | (38 mm x 32,9 m) | N/A | 12 rolls |
| 22 | 10067 | 2" x 36 yd. | (51 mm x 32,9 m) | N/A | 12 rolls |
| Scotch® Vinyl Electrical Tape 66R (made to order) | 43249 | Common sizes: 3/4" x 36 yd. | (19 mm x 32,9 m) | N/A | 48 rolls |
| | 43250 | 1" x 36 yd. | (25,4 mm x 32,9 m) | N/A | 36 rolls |
| | | Other sizes available upon request. | | | |
| 3M™ Highland™ Vinyl Electrical Tape | 16720 | 3/4" x 66' | (19 mm x 20,1 m) | 1/cello | 100 rolls |
| 3M™ Temflex™ Vinyl Electrical Tape 1700, black | | | | | |
| 1700 | 49700 | 3/4" x 36 yd. | (19 mm x 32,9 m) | 1/cello, 10/sleev | 100 rolls |
| 1700 | 69764 | 3/4" x 60' | (19 mm x 18,3 m) | 1/cello, 10/sleev | 100 rolls |
| 1700 | 49571 | 3/4" x 66' | (19 mm x 20,1 m) | 1/cello, 10/sleev | 100 rolls |
| 1700 | 43962 | 1" x 66' | (25,4 mm x 20,1 m) | N/A | 99 rolls |
| 1700P MHSA Printed | 08175 | 3/4" x 66' | (19 mm x 20,1 m) [Bulk] | N/A | 100 rolls |
| 1700P MHSA Printed | 08408 | 1-1/2" x 44' | (38 mm x 13,4 m) [Bulk] | N/A | 100 rolls |
| 1700P MHSA Printed | 50750 | 1-1/2" x 66' | (38 mm x 20,1 m) | 5 rolls/sleev | 100 rolls |

Note: Other widths and lengths available upon request.

*Minimum order quantities apply.

**UPC prefix 051131-

Insulating and Splicing Tapes

Scotch® Linerless Rubber Splicing Tape 130C

Scotch Electrical Tape 130C is a highly conformable, linerless Ethylene Propylene Rubber (EPR), high-voltage insulating tape that provides excellent thermal dissipation of splice heat. Scotch 130C meets industry specifications and has excellent physical and electrical properties, which helps provide immediate moisture seal and void-free buildups. Scotch 130C is rated up to 194°F (90°C) continuous operating temperatures and short term 266°F (130°C) overload service. This tape should be applied like any rubber tape: that is, the side of the tape wrapped inside the roll should be applied outside on the splice (tacky side up). This will help prevent the roll from getting progressively further away from the work area.



Scotch® Rubber Splicing Tape 23

Scotch Electrical Tape 23 is a highly conformable, self-fusing Ethylene Propylene Rubber (EPR)-based, high-insulating voltage tape. Scotch 23 has a “snakeskin” liner that is easily removed as the tape is applied.

Scotch® Electrical Semi-conducting Tape 13

Scotch Electrical Semi-conducting Tape 13 is a highly conformable, semi-conducting Ethylene Propylene Rubber (EPR)-based, high-voltage splicing tape. Scotch Electrical Tape 13 elongates easily to conform to irregular shapes and retains its conductivity when stretched.

Scotch® Electrical Shielding Tape 24

Scotch Electrical Shielding Tape 24 is an all-metal, flat, open-weave shielding braid that is compatible with power cable insulations and all high-voltage splicing and terminating materials. Scotch Electrical Tape 24 elongates easily to conform and is temperature stable.



Scotch® Linerless Rubber Splicing Tape 130C

Scotch® Electrical Grounding Braid 25

Scotch Electrical Grounding Braid 25 is a flat, all-metal woven electrical grounding braid that is compatible with all power cable insulations and high-voltage splicing and terminating materials. The Scotch Electrical Grounding Braid 25 is conformable and temperature stable, and has a high carrying current capacity approximately that of #6 AWG wire.

Scotch® Self-fusing Silicone Rubber Electrical Tape 70

Scotch Silicone Rubber Electrical Tape 70 is a high-temperature, arc- and track-resistant tape composed of self-fusing, inorganic silicone rubber with an easy-tear and easy-strip liner. Scotch Electrical Tape 70 can be used as base tape layer to cleanly reenter connections.

Scotch® Self-fusing, Silicone Heavy Duty Triangular Electrical Tape 70HDT

Scotch Silicone 70HDT is a high-temperature, arc- and track resistant tape composed of self-fusing, silicone rubber with an easy-tear and easy-strip liner. This product is just like the Scotch 70 Tape, but has a triangular tapered edge profile (thicker in the middle) and a blue guideline to make half-lapping application easier.



Product Referral Generator

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|-----------------------------|---------|
| Cable Cleaning | pg. 350 |
| Insulating | |
| – Jacketing Tubes | pg. 329 |
| Connecting | |
| – Lugs and Connectors | pg. 139 |



Features — Advantages — Benefits

Linerless Rubber Tapes

| | | |
|-------------------------------|----------------------------|---|
| No liner | Makes job easier | Saves time, lower installed cost |
| Excellent thermal dissipation | More stable splices | Provides longer cable life, reduces life cycle cost |
| Highly conformable | High quality moisture seal | Eliminates call-backs |

Scotch® Fire and Electric Arc Proofing Tape 77

Scotch Fire and Electric Arc Proofing Tape 77 is designed to protect all types of electrical cables when exposed to potential failures in an adjacent cable. Its unique formulation expands in fire to form a thick char buildup between the flame and the cable. The resulting firewall acts as a heat shield and flame barrier, thus protecting the nearby cables and accessories.

3M™ Linerless Splicing Compound 2242

3M Electrical Tape 2242 is a multi-purpose rubber insulating tape designed for use in splicing and terminating wires and cables rated up to 194°F (90°C). 3M Electrical Tape 2242 is a highly conformable, linerless Ethylene Propylene Rubber (EPR)-based tape.

3M™ Scotchfil™ Electrical Insulation Putty

3M Scotchfil Putty is an electrical grade, rubber-based,

elastic-type putty in tape form. It can be wrapped, stretched or molded around irregular shapes for quick, smooth insulation build-up. Use Scotchfil putty to insulate connections up to 600 volts and to round out high-voltage connections to gear, smooth bus bar irregularities, and make a moisture seal at ground wire exits in high-voltage splices. UL Recognized Component listing for 176°F (80°C) when used in combination with Super 33+ or 88 tapes (Guide OCDT2, File E59951).

Scotch® Electrical Insulating Varnished Cambric Tape 2510 and 2520

Scotch Electrical Insulating Varnished Cambric Tape 2510 and 2520 are cotton cambric fabric tapes, oil primed and coated with high-grade yellow electrical insulating varnish for quality electrical insulating. Scotch 2510/2520 are temperature stable tape products that allow for clean reentry of electrical connections. Scotch 2510 has no adhesive and Scotch 2520 has a pressure-sensitive adhesive.

Specifications for Insulating and Splicing Tapes

| | Product Number | Product Description | Tape Thickness | U.V. Resistance | Temp. Rating | Typical Applications | Specs./ Certifications and Listings |
|---|---|---|---------------------------|-----------------|---|---|---|
|  | Scotch® Linerless Rubber Splicing Tape 130C | High voltage insulating; thermally conductive; self-bonding. | 30 mil | No* | continuous: 194°F (90°C) short-term: 266°F (130°C) | Primary electrical insulation for splicing all solid dielectric cables through 69kV. | ASTM D-4388 Type I, II, & III HH-I-553C |
|  | Scotch® Electrical Semiconducting Tape 13 | Rubber tape, semi-conductive. Compatible with cable semi-conducting jackets. | 30 mil | No* | continuous: 194°F (90°C) short-term: 266°F (130°C) | Electrically round high voltage connections. Provide cable shield continuation. | ASTM D-4388 Type IV |
|  | Scotch® Rubber Splicing Tape 23 | High & low voltage insulating, self-fusing rubber tape. | 30 mil | N/A | continuous: 194°F (90°C) short-term: 266°F (130°C) | Primary electrical insulation for splicing all solid dielectric cables through 69 kV. | HH-I-3825B ASTM D-4388 Type I, II, & III |
|  | Scotch® Electrical Shielding Tape 24 | All metal open weave shielding braid, conformable, temperature stable. | N/A | N/A | N/A | Continue electrostatic shielding across splice. | N/A |
|  | Scotch® Electrical Grounding Braid 25 | All metal woven braid; high current carrying capacity of 6 AWG wire; solderable. | N/A | N/A | N/A | Conformable ground braid for splices & terminations. | N/A |
|  | Scotch® Self-fusing Silicone Rubber Electrical Tape 70 | Arc & track resistant; self fusing, long lasting silicone rubber. | 12 mil | Excellent | 356°F (180°C) | Protective overwrap for terminating high voltage cables. | N/A |
|  | Scotch® Heavy Duty Triangular Self-fusing Silicone Rubber Electrical Tape 70HDT | Arc & track resistant; self fusing, long lasting silicone rubber, triangular tapered edge profile and a blue guideline. | 20 mil center, 8 mil edge | Excellent | 356°F (180°C) | Protective overwrap for terminating high voltage cables. | N/A |
|  | Scotch® Fire and Electric Arc Proofing Tape 77 | Protects cable until limiting devices can interrupt faulted current. | 30 mil | Excellent | N/A | Use on high-energy cables that are within 18" of other high energy cables. | N/A |
|  | 3M™ Linerless Splicing Compound 2242 | General purpose rubber insulating tape. | 30 mil | No* | continuous: 194°F (90°C) short-term: 266°F (130°C) | All-voltage splicing, jacketing, & general insulating. | HH-I-553C ASTM D-4388 Type I, II, & III |
|  | 3M Scotchfil™ Electrical Insulation Putty | Black, self-fusing, insulating putty in tape form. | 125 mil | No* | 176°F (80°C) | Insulate connections up to 600V. Smooth bus bar irregularities. |  File E 59951 |
|  | Scotch® Varnished Cambric Tape 2510 and 2520 | Yellow, varnish coated cotton cloth 2510: no adhesive; 2520: adhesive. | 7 mil 8 mil | No* | 220°F (105°C) | Insulate bus bars, motor leads (for re-entry), service drop connections. | N/A |
|  | 3M™ Temflex™ Rubber Splicing Tape 2155 | Replaces 2150. Economical low voltage rubber insulating tape; self-fusing. | 30 mil | No* | 176°F (80°C) | Insulating wire splices, split bolt connections, & motor leads up to 600V. |  LISTED 539H Insulating Tape |

*For best UV protection, overwrap with Scotch® Super 33+™.

Ordering Information for Insulating and Splicing Tapes

| Product Number | UPC (054007-) | Size | | Inner Unit Pack | Case Qty. |
|---|---------------|-----------------|---------------------|-----------------|-----------|
| Scotch® Linerless Rubber Splicing Tape 130C, black | | | | | |
| 130C | 41717 | 3/4" x 30' | (19 mm x 9,1 m) | 1/box | 24 rolls |
| 130C | 41751 | 1" x 10' | (25 mm x 3 m) | N/A | 24 rolls |
| 130C | 41752 | 1" x 15' | (25 mm x 4,6 m) | 1/box | 24 rolls |
| 130C | 41753 | 1" x 30' | (25 mm x 9,1 m) | 1/box | 24 rolls |
| 130C | 41718 | 1-1/2" x 30' | (38 mm x 9,1 m) | 1/box | 12 rolls |
| 130C | 41754 | 2" x 30' | (51 mm x 9,1 m) | 1/box | 12 rolls |
| Scotch® Electrical Semi-Conducting Tape 13 | | | | | |
| 13 | 15017 | 3/4" x 15' | (19 mm x 4,57 m) | 1/box, 10/ctn | 50 rolls |
| Scotch® Rubber Splicing Tape 23, black | | | | | |
| 23 | 15025 | 3/4" x 30' | (19 mm x 9,1 m) | 1/box, 50/ctn | 50 rolls |
| 23 | 13061 | 1" x 20' | (25 mm x 6,1 m) | N/A | 100 rolls |
| 23 | 00059 | 1" x 30' | (25 mm x 9,1 m) | 1/box, 50 ctn | 50 rolls |
| 23 | 11214 | 1-1/2" x 30' | (38 mm x 9,1 m) | 1/box, 10/ctn | 50 rolls |
| 23 | 15033 | 2" x 30' | (51 mm x 9,1 m) | 1/box, 10/ctn | 50 rolls |
| Note: Other widths and lengths available upon request. | | | | | |
| Scotch® Electrical Shielding Tape 24 | | | | | |
| 24 | 15058 | 1" x 100' | (25 mm x 30,5 m) | 1/box, 10/ctn | 10 rolls |
| 24 | 15041 | 1" x 15' | (25 mm x 4,6 m) | 1/box, 10/ctn | 50 rolls |
| Scotch® Electrical Grounding Braid 25 | | | | | |
| 25 | 11602 | 1/2" x 15' | (13 mm x 4,6 m) | 1/box | 1 roll |
| Scotch® Self-Fusing Silicone Rubber Electrical Tape 70, gray | | | | | |
| 70 | 15603 | 1" x 30' | (25 mm x 9,1 m) | 1/box, 10/ctn | 50 rolls |
| Scotch® Self-Fusing, Silicone Heavy Duty Triangular Electrical Tape 70HDT | | | | | |
| 70HDT | 51128-56030 | 1" x 30' | (25.4 mm x 9,1 m) | 1/box | 50 rolls |
| Scotch® Fire and Electric Arc Proofing Tape 77, black | | | | | |
| 77 | 42007 | 1-1/2" x 20' | (38 mm x 6,1 m) | 1/bag | 10 rolls |
| 77 | 42006 | 3" x 20' | (76 mm x 6,1 m) | 1/bag | 10 rolls |
| 3M™ Linerless Splicing Compound 2242, black | | | | | |
| 2242 | 06165 | 3/4" x 15' | (19 mm x 4,6 m) | 1/bag | 24 rolls |
| 2242 | 41323 | 1-1/2" x 15' | (38 mm x 4,6 m) | 1/bag | 12 rolls |
| 2242 | 43251 | 2" x 15' | (51 mm x 4,6 m) | N/A | 8 rolls |
| 3M™ Scotchfil™ Electrical Insulation Putty | 41750 | 1-1/2" x 60" | (38 mm x 1,53 m) | 4/ctn | 12 rolls |
| Scotch® Varnished Cambric Tape 2510, yellow | | | | | |
| 2510 | 41720 | 3/4" x 60' | (19 mm x 18,3 m) | 1/box, 10/ctn | 20 rolls |
| 2510 | 10661 | 3/4" x 36 yd. | (19 mm x 33 m) | N/A | 48 rolls |
| 2510 | 10687 | 1" x 36 yd. | (25 mm x 33 m) | N/A | 36 rolls |
| 2510 | 10703 | 1-1/2" x 36 yd. | (38 mm x 33 m) | N/A | 24 rolls |
| 2510 | 10711 | 2" x 36 yd. | (51 mm x 33 m) | N/A | 16 rolls |
| 2510 | 15751 | 36" x 25 yd. | (914,4 mm x 22,9 m) | N/A | 1 roll |
| Scotch® Varnished Cambric Tape 2520, yellow | | | | | |
| 2520 | 04836 | 3/4" x 60' | (19 mm x 18,3 m) | 1/box, 10/ctn | 20 rolls |
| 2520 | 04835 | 3/4" x 36 yd. | (19 mm x 33 m) | N/A | 48 rolls |
| 2520 | 04833 | 1" x 36 yd. | (25 mm x 33 m) | N/A | 36 rolls |
| 2520 | 04832 | 1-1/2" x 36 yd. | (38 mm x 33 m) | N/A | 24 rolls |
| 2520 | 04834 | 2" x 36 yd. | (51 mm x 33 m) | N/A | 16 rolls |
| 3M™ Temflex™ Rubber Splicing Tape 2155, black | | | | | |
| 2155 (replaces 2150) | 50348 | 3/4" x 22' | (19 mm x 6,7 m) | N/A | 50 rolls |
| 2155 (replaces 2150) | 50349 | 1-1/2" x 22' | (38 mm x 6,7 m) | N/A | 45 rolls |

Sealing and Insulating Tapes

Scotch® Vinyl Mastic Pads 2200 (125 mil) and Scotch® Vinyl Mastic Roll 2210 (90 mil)

Scotch Vinyl Mastic Pads 2200 and Scotch Vinyl Mastic Rolls 2210 are self-fusing, rubber-based insulating compounds laminated to a flexible, all-weather grade PVC backing. Both rolls and pads are resistant to abrasion, moisture, alkalies, acid, copper corrosion, U.V. and varying weather conditions.

Scotch® Electrical Moisture Sealant (45 mil) 06147 and 06149

Scotch Electrical Moisture Sealant 06147 and 06149 are self-fusing, rubber-based thin insulating mastic compounds laminated to a flexible, all-weather grade PVC backing and are designed for moisture sealing of electrical connections up to 600 volts.

Scotch® Rubber Mastic Tape 2228

Scotch Rubber Mastic Tape 2228 is a conformable self-fusing rubber electrical insulating and sealing tape. Scotch® Rubber Mastic 2228 consists of Ethylene Propylene rubber (EPR) backing coated with an strong, temperature-stable mastic adhesive.

3M™ Scotch-Seal Mastic Tape Compound 2229

3M Scotch-Seal Mastic Tape Compound 2229 is designed for quick and easy insulating, padding and sealing of electrical connections. It is a conformable, durable, tacky mastic with an easy release liner for easy applications over irregular surfaces and provides excellent moisture resistance. It features superior self-healing characteristics after being punctured or cut.

3M™ Scotchfil™ Electrical Insulation Putty

Use as a build-up compound on highly irregular surfaces such as fittings and valves, providing a smooth, waterproof taping surface. Scotchfil Putty is soft and pliable—simply press putty into place on irregular surfaces, mold with finger pressure and over tape using standard methods.



Scotch® 2210 Vinyl Mastic Roll



Product Referral Generator

- Insulating
- Cold Shrink pg. 272
- Heat Shrink pg. 355








Features — Advantages — Benefits

2200 and 2210

| | | |
|---|---------------------------------|--------------------------------------|
| Self-fusing tape with vinyl backing | One-step application | Will save you time |
| Conformable for application over irregular surfaces | Makes job easier/faster | Saves time |
| Compatible with solid dielectric cable insulation | Easy to use | Makes your job easier |
| 2 convenient pad sizes | Allows for various applications | Convenient, saves you time and money |

Specifications for Sealing and Insulating Tapes

| | Product Number | Product Description | Tape Thickness | U.V. Resistance | Temperature Rating | Typical Applications |
|---|---|---|-----------------------------------|-----------------|--|---|
|  | Scotch® Vinyl Mastic 2200 and 2210 | Excellent moisture sealant; tough vinyl backing; electrical insulating. | 2200 is 125 mil 2210 is 90 mil | Excellent | 176°F (80°C) | Insulate moisture-seal and pad connections up to 600V. |
|  | Scotch® Moisture Sealant 06147 and 06149 | Excellent moisture sealant; tough vinyl backing; electrical insulating. | 6147 is 45 mil 6149 is 45 mil | Excellent | 176°F (80°C) | Insulate moisture-seal and pad connections up to 600V. |
|  | Scotch® Rubber Mastic Tape 2228 | Self-fusing rubber based compound bonded to a moisture sealing mastic; all weather. | 65 mil | No* | 194°F (90°C) emergency overload of 266°F (130°C) | Insulate, pad, and seal bus bar and splice connections. |
|  | 3M™ Scotch-Seal Mastic Tape Compound 2229 | Conformable and durable mastic. Excellent moisture and environmental seal. | 125 mil | No* | 176°F (80°C) | Sealing high voltage cables and accessories. |
|  | 3M™ Scotchfil™ Black, Electrical Insulation Putty | Self-fusing, insulating putty in tape form. | 125 mil | N/A | 176°F (80°C) | Smooths irregularities on fittings and valves. |

*For best UV protection, overwrap with Scotch Super 33+™ Tape.

Ordering Information for Sealing and Insulating Tapes

| Product Number | UPC (054007-) | Size | Inner Unit Pack | Case Qty. |
|--|---------------|--|-----------------|-----------|
| Scotch® Vinyl Mastic 2200 and 2210 | | | | |
| 2200 | 11008 | 3-1/4" x 4-1/2" pads (83 mm x 114 mm) | 10/box | 50 pads |
| 2200 | 21296 | 6-1/2" x 4-1/2" pads (165 mm x 114 mm) | 10/box | 50 pads |
| 2210 | 11222 | 4" x 10' roll (102 mm x 3,05 m) | 1/box | 10 |
| Scotch® Electrical Moisture Sealant 06147 and 06149 | | | | |
| 06147 | 06147 | 2-1/2" x 10' (63 mm x 3,05 m) | 1/roll | 10 rolls |
| 06149 | 06149 | 2-1/2" x 2-1/2" (63 mm x 63 mm) | 25 pads/box | 10 |
| Scotch® Rubber Mastic Tape 2228 | | | | |
| 2228 | 50727 | 1" x 10' (25 mm x 3,05 m) | N/A | 12 rolls |
| 2228 | 43478 | 2" x 3' (51 mm x 0,9 m) | N/A | 48 rolls |
| 2228 | 09656 | 2" x 10' (51 mm x 3,05 m) | N/A | 10 rolls |
| 3M Scotch-Seal Mastic Tape Compound 2229 | | | | |
| 2229 | 49702 | 3-3/4" x 10' (102 mm x 3,05 m) | N/A | 8 each |
| 2229 | 50335 | 1" x 10' (25 mm x 3,05 m) | N/A | 12 each |
| 2229-P | 41303 | 2-1/2" x 3-3/4" pads (63,5 mm x 95,25 mm) | 10/box, 40/cs. | 40 pads |
| 2229-P | 50336 | 3-3/4" x 3-3/4" pads (95,25 mm x 95,25 mm) | 10/box, 40/cs. | 40 pads |
| 2229-P | 50337 | 3-3/4" x 6-1/2" pads (95,25 mm x 165,1 mm) | N/A | 40 pads |
| Scotch® Mastic Strip 2230 | 41813 | 5/8" x 6" (15,86 mm x 152,4 mm) | N/A | 40 each |
| 3M Scotchfil Electrical Insulation Putty | 41750 | 1-1/2" x 60" (38 mm x 1,53 m) | 4/ctn | 12 rolls |

Corrosion Protection Tapes

3M™ Scotchrap™ All-weather Corrosion Protection Tapes 50 and 51

3M Scotchrap Corrosion Protection Tapes 50 (10 mils) and 51 (20 mils) are tough, polyvinyl chloride (PVC) tapes with high-tack adhesives that resist corrosion of metal piping systems above and below ground. Both tapes apply over a wide temperature range and are resistant to impact, abrasion and punctures. **Coat the pipe or other metal surfaces with Scotchrap Pipe Primer before wrapping with Scotchrap 50 or 51.**

3M™ Scotchrap™ Pipe Primer

A quick-drying, non-sag rubber base primer that permeates metal surface pits and irregularities, preparing the surface for tape application. Compatible with the special adhesive on Scotchrap Tapes, it enhances adhesion. To be used with Scotchrap All-weather Corrosion Protection Tapes 50 and 51.



3M™ Scotchrap™ All-weather Corrosion Protection Tape 51 and 3M™ Scotchrap Pipe Primer



Product Referral Generator

| | |
|----------------------------|---------|
| Insulating – Tape | pg. 9 |
| Padding | pg. 9 |
| Sealing and Repair | pg. 329 |



Features — Advantages — Benefits

Scotchrap All-weather Corrosion Protection Tape 50





| | | |
|--|------------------------|--------------------------------|
| 10 mils, PVC backing | Flexible | Easy to use, which saves time |
| Excellent moisture and abrasive resistance | Resists pipe corrosion | Cuts down on replacement costs |
| High quality adhesive | Excellent quick stick | Easy to use |

Scotchrap All-weather Corrosion Protection Tape 51

| | | |
|----------------------|--|--|
| 20 mils, PVC backing | Superior mechanical strength and abrasion resistance | Provides confidence about the job and freedom from worry |
|----------------------|--|--|

NOTE: Scotchrap Pipe Primer should be used with all corrosion protection tapes.

Specifications for Corrosion Protection Tapes

| | Product Number | Product Description | Tape Thickness | U.V. Resistance | Temperature Rating | Typical Applications |
|---|---|--|------------------------------|------------------------|--------------------|--|
|  | 3M™ Scotchrap™ Corrosion Protection 50 and 51 | All-weather performance and corrosion resistance. Resistant to impact and abrasions. | 50 is 10 mil 51 is 20 mil | Excellent Excellent | 176°F (80°C) | Corrosion protection on pipes, conduits and fittings, etc. |
|  | 3M™ Scotchrap™ Pipe Primer | Quick-dry, non-sag rubber base primer that prepares metal surfaces for tape application. | N/A | N/A | 176°F (80°C) | For use with Scotchrap tapes 50 & 51 and Temflex™ Tape 1100. |
|  | 3M™ Temflex™ Tape 1100 | General purpose corrosion resistant tape. Good abrasion resistance. | 10 mil | Yes | 176°F (80°C) | Corrosion protection on conduits, fittings and joints, etc. |
|  | 3M™ Temflex™ Tape 1200 | General purpose corrosion resistant tape. Good abrasion resistance. | 20 mil | Yes | 176°F (80°C) | Corrosion protection on conduits, fittings and joints, etc. |

Ordering Information for Corrosion Protection Tapes

| Product Number | UPC (054007-) | Size | Inner Unit Pack | Case Qty. |
|--|---------------|-----------------------------|-----------------|-----------|
| 3M Scotchrap All-Weather Corrosion Protection Tapes 50 and 51, black | | | | |
| 50 | 11149 | 1" x 100' (25 mm x 30,5 m) | 1/box | 10 rolls |
| 50 | 00014 | 1" x 100' (25 mm x 30,5 m) | N/A | 48 rolls |
| 50 | 11156 | 2" x 100' (51 mm x 30,5 m) | 1/box | 10 rolls |
| 50 | 10638 | 2" x 100' (51 mm x 30,5 m) | N/A | 24 rolls |
| 50 | 09468 | 3" x 100' (76 mm x 30,5 m) | N/A | 16 rolls |
| 50 | 10646 | 4" x 100' (102 mm x 30,5 m) | N/A | 12 rolls |
| 50 | 15785 | 6" x 100' (152 mm x 30,5 m) | N/A | 8 rolls |
| 50 Printed* | 00012 | 1" x 100' (25 mm x 30,5 m) | N/A | 48 rolls |
| 50 Printed | 00013 | 2" x 100' (51 mm x 30,5 m) | N/A | 24 rolls |
| 50 Printed | 00018 | 4" x 100' (102 mm x 30,5 m) | N/A | 12 rolls |
| 51 | 42806 | 1" x 100' (25 mm x 30,5 m) | N/A | 24 rolls |
| 51 | 42807 | 2" x 100' (51 mm x 30,5 m) | N/A | 12 rolls |
| 51 | 42808 | 4" x 100' (102 mm x 30,5 m) | N/A | 4 rolls |
| 51 | 42809 | 6" x 100' (152 mm x 30,5 m) | N/A | 4 rolls |
| 51 Printed** | 42802 | 1" x 100' (25 mm x 30,5 m) | N/A | 24 rolls |
| 51 Printed | 42803 | 2" x 100' (51 mm x 30,5 m) | N/A | 12 rolls |
| 51 Printed | 42804 | 4" x 100' (102 mm x 30,5 m) | N/A | 4 rolls |
| 51 Printed | 42805 | 6" x 100' (152 mm x 30,5 m) | N/A | 4 rolls |
| Note: 100 sq. ft. (9,3 m ²) of tape equals a square. Example: 2 rolls of 6 in. x 100 ft. (152 mm x 30,5 m), 3 rolls of 4 in. x 100 ft. (101 mm x 30,5 m), 6 rolls of 2 in. x 100 ft. (51 mm x 30,5 m), 12 rolls of 1 in. x 100 ft. (25 mm x 30,5 m) | | | | |
| 3M Scotchrap Pipe Primer | 42768 | 1 gallon can (3,79 liters) | N/A | 4 gallons |
| 3M Temflex Corrosion Protection Tape 1100 | | | | |
| 1100 Printed | 09065 | 2" x 100' (51 mm x 30,5 m) | N/A | 24 rolls |
| 1100 | 09061 | 2" x 100' (51 mm x 30,5 m) | N/A | 24 rolls |
| 3M Temflex Corrosion Protection Tape 1200 | | | | |
| 1200 Printed | 51128-56330 | 2" x 100' (51 mm x 30,5 m) | N/A | 12 rolls |

Note: 3M Scotchfil™ Putty must be overwrapped with Scotchrap or Temflex.

Note: Printed tapes are printed with product name and thickness.

*Printed version of 50 Tape is Scotchrap Tape 10 mil

**Printed version of 51 Tape is Scotchrap Tape 20 mil

Special Use Tapes

3M provides a wide range of tapes for special applications, from electrically insulating glass cloth tapes, to gaffers tape, and even duct tape.

Scotch® Glass Cloth Electrical Tape 27 and 69

Scotch Electrical Tapes 27 and 69 are woven glass cloth tapes with thermosetting, pressure-sensitive adhesives, which electrically insulate and provide mechanical protection at high temperatures. Scotch® Electrical Tapes 27 Class B—266°F (130°C) and 69 Class H—356°F (180°C) deliver high-temperature performance.

Scotch® Thread Sealant and Lubricant 48

Scotch Thread Sealant Tape 48 is a high temperature stable (PTFE) pipe thread sealant that provides a leakproof seal.

Scotch® Performance Masking Tape 232

Scotch Performance Masking Tape 232 is a tough and extremely smooth, natural-colored, 6.3 mil (0,14 mm) thick, high performance, crepe paper tape. It is excellent for paint masking as well as many industrial applications. Scotch® Masking Tape 232 will generally function during bake cycles of up to 250°F (121°C) for periods up to one hour. It should not be exposed to outdoor elements. It can be qualified to meet Fed. Spec. PPP-T-42C Type I and CID A-A-883B

Scotch® General Purpose Masking Tape 234

Scotch General Purpose Masking Tape 234 is a natural-colored, 6.0 mil (0,14 mm) thick, paper tape. It is excellent for general industrial applications. It will generally function during bake cycles of up to 250°F (121°C) for periods up to one hour. It should not be exposed to outdoor elements. It can be qualified to meet Fed. Spec. PPP-T-42C Type I and CID A-A-883B.

Scotch® Transparent Duct Tape 2120-A

Scotch Transparent Duct Tape offers clear advantages to ordinary duct tape. It is transparent when applied making repairs less obvious, lasts six times longer than heavy duty duct tapes, tears easily by hand, and is resistant to water and UV rays. Scotch Transparent Duct Tape is extremely versatile and can be used on plastic, wood, glass, metal, vinyl and rubber.



Scotch® Glass Cloth Electrical Tape 27



Product Referral Generator

| | |
|---------------------------------------|---------|
| Hi Temp Insulating – 70 Tape | pg. 6 |
| Terminating | pg. 225 |
| Connecting | pg. 139 |

3M™ Performance Plus Duct Tapes 8979/8979N

Offers 6 months clean removal from most opaque surfaces; there is no sticky or dried-on adhesive residue to clean. Sunlight/UV and water resistant. It even stays on indoors and outdoors for up to 1 year without deterioration even in sunlight.































Features — Advantages — Benefits

Scotch Tape 27 and 69

| | | |
|---|------------------------------|----------------------------------|
| High temperature thermosetting adhesive | Excellent solvent resistance | Improves safety |
| Class B rating to Class H | High temperature resistance | Provides freedom from worry |
| Glass cloth backing | Mechanical protection | Lasts longer and improves safety |

Specifications for Special Use Tapes

| | Product Number | Product Description | Tape Thickness | Temperature Rating | Typical Applications | Specs./ Certifications and Listings |
|---|---|---|----------------------------|--|---|--|
|  | Scotch® Glass Cloth Tape 27 and 69 | Woven insulating glass cloth; high temperature resistance; high mechanical strength. | 27 is 7 mil 69 is 7 mil | 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, & switches. | Meets:  LR93411 |
|  | Scotch® Thread Sealant and Lubricant Tape 48 | Pipe thread sealant that provides a leakproof seal. | 3 mil | 500°F (260°C) | Leakproof seal helps prevent cross threading on pipe threads. | N/A |
|  | Scotch® Performance Masking Tape 232 | Premium grade masking tape. | 6.3 mil | Up to 250°F (121°C) | Paint masking tape, bundling and protecting. | N/A |
|  | Scotch® General Purpose Masking Tape 234 | General purpose masking tape. | 6.0 mil | Up to 250°F (121°C) | Holding, sealing, non-critical masking. | N/A |
|  | 3M™ Paper Tape 200 | Utility purpose paper tape. | 4.5 mil | 200°F (93°C) | Non-critical masking and holding. | N/A |
|  | 3M™ Temflex™ Cotton Friction Tape 1755 | High grade friction tape. Good abrasion resistance. | 15 mil | 176°F (80°C) | Abrasion protection for splices and connections. | N/A |
|  | 3M™ Duct Tape 6969 | Extra heavy duty duct tape, excellent adhesion, tears easily. Silver. | 10.7 mil | 200°F (93°C) | Moisture proofing plumbing, duct sealing, and protecting. | Meets:  HUD and BOCA |
|  | 3M™ Duct Tape 3939 | Heavy duty duct tape; good adhesion, strong backing. Silver. | 9 mil | 150°F (65°C) | Sealing heating ventilation and air conditioning ducts. | Meets:  HUD and BOCA |
|  | Scotch® Heavy Duty All-Weather Duct Tape 2245 | Resists harsh outdoor conditions and stays pliable. | 9.5 mil | up to 150°F (66°C) | Outdoor projects. | Meets:  HUD and BOCA |
|  | Scotch® Professional HVAC Duct Tape 133DC | Aggressive adhesive for air and moisture, light industrial, and HVAC applications. | 10 mil | 200°F (93°C) | Wrapping pipes, sealing ducts, general repairs. | Meets:  HUD and BOCA |
|  | 3M™ Utility Duct Tape 2929 | General use, quick easy tear. | 6.0 mil | 200°F (93°C) | Temporary repairs, light duty applications. | N/A |
|  | 3M™ Performance Plus Duct Tape 8979 | 6 month clean removal duct tape. Sunlight resistant, leaves behind no sticky residue. | 12.6 mil | 200°F (93°C) | Cap pipes ends and conduit stored outdoors. Hanging, sealing poly drapes. | Meets:  HUD and BOCA |
|  | 3M™ Performance Plus Duct Tape 8979N-Nuclear | 6 month clean removal duct tape. Sunlight resistant, leaves behind no sticky residue. | 12.6 mil | 200°F (93°C) | Critical containment for utilities and nuclear power plants. Outdoor use, without deterioration up to 1 year. | Certified to meet low halogens and sulfur levels. ASME NQA-1, MIL-STD-2041D |
|  | Scotch® Transparent Duct Tape 2120-A | Transparent, resistant to water and UV rays. | 9 mil | 173°F | Bundling, patching, sealing, general repairs. | N/A |
|  | Scotch® Electricians Bundling Tape 2000 | General purpose easy tear vinyl duct tape. | 6 mil | N/A | General holding and bundling. | N/A |
|  | 3M™ Duct Tape 3900 | Multi-purpose duct tape. Available in seven colors for color-coding jobs. | 7.7 mil | 200°F (93°C) | Maintenance and repair, pulling wires through conduit. | Meets:  HUD and BOCA |
|  | 3M™ Cloth Gaffers Tape 6910 | High tack, easy tear coated cloth tape. | 12 mil | up to 200°F (93°C) | Sealing and holding where minimum light reflection and glare are required. | N/A |
|  | 3M™ Outdoor Masking and Stucco Tape 5959 | 90 day clean removal. Indoor/Outdoor Duct Tape. Sunlight Resistant, leaves behind no residue. | 13 mil | up to 200°F (93°C) | For masking stucco, eifs tile, brick, concrete, stonework and composites | Meets:  HUD and BOCA |
|  | 3M™ Value Duct Tape 1900 | Economical Choice, Quick Easy Tear. | 6 mil | up to 150°F (65°C) | For cost effective applications. | N/A |
|  | 3M™ Vinyl Duct Tape 3903 | Low-medium adhesion for all around jobs. Available in seven colors for color coding. | 6.2 mil | up to 250°F (121°C) | For all around jobs. | N/A |

Note: 3M Tartan Duct Tape 3939 replaces 3M Temflex Tape 3930.

Ordering Information for Special Use Tapes

| Product Number | UPC (054007-) | Size | | Inner Unit Pack | Case Qty. |
|--|---------------|------------------|------------------|-----------------|-----------|
| Scotch® Glass Cloth Electrical Tape 27 and 69 | | | | | |
| 27 | 15066 | 1/2" x 66' | (13 mm x 20 m) | 1/box, 10/ctn | 50 rolls |
| 27 | 15074 | 3/4" x 66' | (19 mm x 20 m) | 1/box, 10/ctn | 50 rolls |
| 27 | 27477 | 3/4" x 60 yd. | (19 mm x 54.8 m) | N/A | 12 rolls |
| 27 | 10570 | 1" x 60 yd. | (25 mm x 54.8 m) | N/A | 9 rolls |
| 27 | 27478 | 1-1/2" x 60 yd. | (38 mm x 54.8 m) | N/A | 24 rolls |
| 69 | 10083 | 1/2" x 66' | (13 mm x 20 m) | 1/box, 10/ctn | 50 rolls |
| 69 | 27548 | 1/2" x 36 yd. | (13 mm x 33 m) | N/A | 18 rolls |
| 69 | 09910 | 3/4" x 66' | (19 mm x 20 m) | 1/box, 10/ctn | 50 rolls |
| 69 | 27493 | 3/4" x 36 yd. | (19 mm x 33 m) | N/A | 12 rolls |
| 69 | 27494 | 1" x 36 yd. | (25 mm x 33 m) | N/A | 9 rolls |
| Note: Only available sizes. | | | | | |
| Scotch® Thread Sealant and Lubricant Tape 48 | | | | | |
| 48 | 06192 | 1/4" x 260" | (6,3 mm x 7 m) | N/A | 12 rolls |
| 48 | 06195 | 1/2" x 260" | (13 mm x 7 m) | N/A | 12 rolls |
| 48 | 06196 | 1/2" x 520" | (13 mm x 13 m) | N/A | 12 rolls |
| 48 | 27571 | 1/2" x 1296" | (13 mm x 33 m) | N/A | 12 rolls |
| Note: Other widths and lengths are available. | | | | | |
| Scotch® Performance Masking Tape 232 | | | | | |
| 232 | 02853* | 3/4" x 60 yd. | (18 mm x 54.8 m) | N/A | 48 rolls |
| 232 | 02854* | 1" x 60 yd. | (24 mm x 54.8 m) | N/A | 36 rolls |
| 232 | 04240* | 2" x 60 yd. | (48 mm x 54.8 m) | N/A | 24 rolls |
| Scotch® General Purpose Masking Tape 234 | | | | | |
| 234 | 02981* | 3/4" x 60 yd. | (18 mm x 54.8 m) | N/A | 48 rolls |
| 234 | 02982* | 1" x 60 yd. | (24 mm x 54.8 m) | N/A | 36 rolls |
| 234 | 04244* | 2" x 60 yd. | (48 mm x 54.8 m) | N/A | 24 rolls |
| 3M™ Paper Tape 200† | | | | | |
| 200 | 53469†† | 1/2" x 60 yd. | (12 mm x 54.8 m) | N/A | 72 rolls |
| 200 | 53464†† | 3/4" x 60 yd. | (18 mm x 54.8 m) | N/A | 48 rolls |
| 200 | 53465†† | 1" x 60 yd. | (24 mm x 54.8 m) | N/A | 36 rolls |
| 200 | 53470†† | 1-1/2" x 60 yd. | (36 mm x 54.8 m) | N/A | 24 rolls |
| 200 | 53466†† | 2" x 60 yd. | (48 mm x 54.8 m) | N/A | 24 rolls |
| 200 | 53467†† | 3" x 60 yd. | (72 mm x 54.8 m) | N/A | 12 rolls |
| 200 | 53468†† | 4" x 60 yd. | (96 mm x 54.8 m) | N/A | 8 rolls |
| 3M™ Temflex™ Cotton Friction Tape 1755 | | | | | |
| 1755 | 50218 | 3/4" x 60' | (19 mm x 18 m) | N/A | 60 rolls |
| 1755 | 50216 | 3/4" x 82-1/2' | (19 mm x 25 m) | N/A | 60 rolls |
| 1755 | 50217 | 1-1/2" x 82-1/2' | (38 mm x 25 m) | N/A | 30 rolls |
| 3M™ Duct Tape 6969 | | | | | |
| 6969 Silver | 06969** | 1.88" x 60 yd. | (48 mm x 54.8 m) | N/A | 24 rolls |
| 6969 Silver | 85635* | 2.83" x 60 yd. | (72 mm x 54.8 m) | N/A | 12 rolls |
| 3M™ Duct Tape 3939 | | | | | |
| 3939 Silver | 85561* | .94" x 60 yd. | (24 mm x 54.8 m) | N/A | 36 rolls |
| 3939 Silver | 06975** | 1.88" x 60 yd. | (48 mm x 54.8 m) | N/A | 24 rolls |
| 3939 Silver | 85562* | 2.83" x 60 yd. | (72 mm x 54.8 m) | N/A | 12 rolls |
| 3939 Silver | 85563* | 3.77" x 60 yd. | (96 mm x 54.8 m) | N/A | 12 rolls |
| Note: 3M Tartan Tape 3939 replaces 3M Temflex Tape 3930. | | | | | |
| Scotch® Heavy Duty All-Weather Duct Tape 2245 | 92040** | 1.88" x 45 yd. | (48 mm x 40 m) | N/A | 12 rolls |
| Scotch® Professional HVAC Duct Tape 133DC† | 50254** | 1.88" x 60 yd. | (48 mm x 54.8 m) | N/A | 24 rolls |

*UPC prefix 021200-

**UPC prefix 051131-

***UPC prefix 051115-

†Order product in metric units.

††UPC prefix 048011-

Ordering Information for Special Use Tapes Continued

| Product Number | UPC (054007-) | Size | | Inner Unit Pack | Case Qty. |
|---|---------------|----------------|------------------|-----------------|-----------|
| 3M™ Outdoor Masking and Stucco Tape 5959 | | | | | |
| 5959 | 25491*** | 1.88" x 45 yd. | (48 mm x 40m) | N/A | 12 rolls |
| 3M™ Value Duct Tape 1900 | | | | | |
| 1900 | 23421*** | 1.88" x 50 yd. | (48 mm x 45.7m) | N/A | 24 rolls |
| 1900 | 23422*** | 2.83" x 50 yd. | (72 mm x 45.7m) | N/A | 12 rolls |
| 3M™ Vinyl Duct Tape 3903 | | | | | |
| 3903 Gray | 06984** | 1.97" x 50 yd. | (50mm x 45.7m) | N/A | 24 rolls |
| 3903 Blue | 06978** | 1.97" x 50 yd. | (50mm x 45.7m) | N/A | 24 rolls |
| 3903 Green | 06986** | 1.97" x 50 yd. | (50mm x 45.7m) | N/A | 24 rolls |
| 3903 Yellow | 06982** | 1.97" x 50 yd. | (50mm x 45.7m) | N/A | 24 rolls |
| 3903 White | 06981** | 1.97" x 50 yd. | (50mm x 45.7m) | N/A | 24 rolls |
| 3903 Red | 06992** | 1.97" x 50 yd. | (50mm x 45.7m) | N/A | 24 rolls |
| 3903 Black | 06995** | 1.97" x 50 yd. | (50mm x 45.7m) | N/A | 24 rolls |
| 3M™ Utility Duct Tape 2929 | | | | | |
| 2929 Silver | 24883*** | 1.88" x 50 yd. | (48mm x 45.7m) | N/A | 24 rolls |
| 2929 Silver | 24885*** | 2.83" x 50 yd. | (72mm x 45.7m) | N/A | 12 rolls |
| 3M™ Performance Plus Duct Tape 8979 | | | | | |
| 8979 Slate Blue | 53922†† | .94" x 60 yd. | (24 mm x 54.8 m) | N/A | 48 rolls |
| 8979 Slate Blue | 56468* | 1.88" x 60 yd. | (48 mm x 54.8 m) | N/A | 24 rolls |
| 8979 Slate Blue | 53851†† | 1.88" x 25 yd. | (48mm x 22.8m) | N/A | 12 rolls |
| 8979 Slate Blue | 56469* | 2.83" x 60 yd. | (72 mm x 54.8 m) | N/A | 12 rolls |
| 8979 Slate Blue | 56470* | 3.77" x 60 yd | (96 mm x 54.8 m) | N/A | 12 rolls |
| 8979 Black | 53918†† | 48" x 60 yd. | (48mm x 54.8m) | N/A | 24 rolls |
| 3M™ Performance Plus Duct Tape 8979-N Nuclear | | | | | |
| 8979N-Nuclear Red | 53914†† | 1.88" x 60 yd. | (48 mm x 54.8 m) | N/A | 24 rolls |
| 8979N-Nuclear Red | 53915†† | 2.83" x 60 yd. | (72 mm x 54.8 m) | N/A | 12 rolls |
| Scotch® Transparent Duct Tape 2120-A | 83260** | 1.88" x 20 yd. | (48 mm x 18 m) | N/A | 12 rolls |
| Scotch® Electricians Bundling Tape 2000 | 43403 | 2" x 50 yd. | (51 mm x 46 m) | N/A | 12 rolls |
| 3M™ Duct Tape 3900 | | | | | |
| 3900 Silver | 06976** | 1.88" x 60 yd. | (48 mm x 54.8 m) | N/A | 24 rolls |
| 3900 Black | 49833* | 1.88" x 60 yd. | (48 mm x 54.8 m) | N/A | 24 rolls |
| 3900 Olive | 49831* | 1.88" x 60 yd. | (48 mm x 54.8 m) | N/A | 24 rolls |
| 3900 Red | 49830* | 1.88" x 60 yd. | (48 mm x 54.8 m) | N/A | 24 rolls |
| 3900 White | 49829* | 1.88" x 60 yd. | (48 mm x 54.8 m) | N/A | 24 rolls |
| 3900 Yellow | 49828* | 1.88" x 60 yd. | (48 mm x 54.8 m) | N/A | 24 rolls |
| 3900 Blue | 49832* | 1.88" x 60 yd. | (48 mm x 54.8 m) | N/A | 24 rolls |
| 3M™ Cloth Gaffers Tape 6910 | | | | | |
| 6910 Black | 06843** | 1.88" x 60 yd. | (48 mm x 54.8 m) | N/A | 24 rolls |
| 6910 Silver | 22782* | 1.88" x 60 yd. | (48 mm x 54.8 m) | N/A | 24 rolls |

*UPC prefix 021200-

**UPC prefix 051131-

***UPC prefix 051115-

†Order product in metric units.

††UPC prefix 048011-

Packaging and Palletizing Tapes

Customers stick with 3M tape because they know they are buying the best for their money. Part of being the best is innovation and reliability. Take our Scotch® Box Sealing Tape 3750, as an example. Its innovative, high strength 3M™ Scotchpro™ backing provides superior performance. Our Scotch® Palletizing Tapes 8884 and 8886 reduce the material cost and volume required to bundle and unitize products compared to conventional alternatives.

3M has a wide line of Scotch® packing tapes for your needs, including label protection and pouch tapes.

Our 3M™ Highland™ and 3M Temflex™ brand packaging tapes are a general purpose alternative to the Scotch® brand line. 3M provides a wide range of tapes to meet our customers' needs.



Scotch® Superior Performance Box Sealing Tape 3750



Features — Advantages — Benefits

3750

High quality, pressure sensitive adhesive

Superior quick stick and adhesion

Applies easily, saves time, reduces closure failures, helps assure safe delivery of product

High strength Scotchpro backing

User friendly

Reduces closure failures during shipping and storage. Efficient handling for manual application

Specifications for Box Sealing Tapes




| | Product Number | Product Description | Tape Thickness | Temperature Rating | Typical Applications |
|--|--|--|----------------|--------------------------------|--|
| | Scotch® Premium Heavy Duty Box Sealing Tape 3750 | Superior performance packaging tape used for heavy-duty packaging applications. | 3.2 mils | short term: 151°F (65°C) | Single strip closure of regular slotted containers (RSCS) |
| | Scotch® Printed Box Sealing Tape 3732 and 3734 | 3732- "If seal is broken check" 3734- "Fragile handle with care" Tan with red printing | N/A | N/A | Box sealing with warnings |
| | 3M Highland™ Commercial Box Sealing Tape 3710 | Commercial grade box sealing tape. | 2 mil | short term: 151°F (65°C) | General purpose closure of regular slotted containers (RSCS) |
| | Scotch® Box Sealing Hand Dispensers H-122 | Box sealing Hand dispensers | N/A | N/A | Box sealing |
| | Scotch® Series Printed Box Sealing Tape 3770 | 3771- "If Seal is Broken Check Contents Before Accepting" 3772- "Fragile Handle with Care" 3773- "Rush, Rush, Rush" 3775- "Mixed Merchandise" | 1.9 mil | N/A | General purpose box sealing and identification |
| | Scotch® Box Sealing Tape 371 | Industrial packaging tape | 1.9 mil | N/A | Box sealing, splicing and recovery |
| | Scotch® Box Sealing Roll-on Dispensers H-180 | Box sealing Roll-on dispensers | N/A | N/A | Box sealing |

Ordering Information for Box Sealing Tapes

| Product Number | UPC (021200-) | Size | | Inner Unit Pack | Case Qty. |
|--|---------------|--------------------|-------------------|-----------------|--------------|
| Scotch® Premium Heavy Duty Box Sealing Tape 3750 | | | | | |
| 3750 Clear | 06640* | 48 mm x 50 m | (1-4/5" x 54 yd.) | 6/pack | 36 rolls |
| 3750 Tan | 72439 | 48 mm x 50 m | (1-4/5" x 54 yd.) | 1/pack | 12 packs |
| 3750 Clear | 72441 | 48 mm x 50 m | (1-4/5" x 54 yd.) | 1/pack | 36 packs |
| Scotch® Printed Box Sealing Tape 3732 and 3734 | | | | | |
| 3732 | 72415* | 1-4/5" x 109 yd. | 48 mm x 100 m | N/A | 36 rolls |
| 3734 | 72417* | 1-4/5" x 109 yd. | 48 mm x 100 m | N/A | 36 rolls |
| 3M™ Highland™ Commercial Box Sealing Tape 3710 | | | | | |
| 3710 Tan | 14765 | 1-4/5" x 54 yd. | (48 mm x 50 m) | N/A | 36 rolls |
| 3710 Clear | 14766 | 1-4/5" x 54 yd. | (48 mm x 50 m) | N/A | 36 rolls |
| 3710 Clear | 18813 | 1-4/5" x 109 yd. | (48 mm x 100 m) | N/A | 36 rolls |
| Scotch® Box Sealing Hand Dispensers H-122 | | | | | |
| H-122 | 06925 | 2" | (50,8 mm) | 1 each | 6 dispensers |
| Scotch® Series Printed Box Sealing Tape 3770 | | | | | |
| 3771 (red on white) | 72301 | 1-9/10" x 104 yd. | (48 mm x 100 m) | N/A | 36 rolls |
| 3772 (red on white) | 72304 | 1-9/10" x 104 yd. | (48 mm x 100 m) | N/A | 36 rolls |
| 3773 (red on white) | 72307 | 1-9/10" x 104 yd. | (48 mm x 100 m) | N/A | 36 rolls |
| 3775 (red on white) | 72458 | 1-9/10" x 104 yd. | (48 mm x 100 m) | N/A | 36 rolls |
| Scotch® Box Sealing Tape 371 | | | | | |
| 371(Clear) | 19279 | 2-4/5" x 54.6 yd. | (72 mm x 50 mm) | N/A | 24 rolls |
| 371(Clear) | 19280 | 2-4/5" x 109.3 yd. | (72 mm x 100 mm) | N/A | 24 rolls |
| 371(Tan) | 18197 | 2-4/5" x 54.6 yd. | (72 mm x 50 mm) | N/A | 24 rolls |
| 371(Tan) | 61525 | 2-4/5" x 109.3 yd. | (72 mm x 100 mm) | N/A | 24 rolls |
| Scotch® Box Sealing Roll-on Dispensers H-180 | | | | | |
| H-180 | 19008 | 50,8 mm | (2") | 1 each | 6 dispensers |

*UPC prefix 051131-

Specifications for Filament Tapes

| | Product Number | Product Description | Tape Thickness | Temperature Rating | Typical Applications |
|---|--|---|----------------|--------------------------------|---|
|  | Scotch® Industrial Grade Filament Tape 893 | Industrial grade filament and packaging tape that is abrasion and moisture resistant. | 6 mil | short term: 151°F (65°C) | High performance and long term adhesion for strapping and reinforcing |
|  | Scotch® Commercial Grade Filament Tape 897 | Commercial grade filament tape with synthetic rubber resin adhesive. | 6 mil | 120°F (50°C) | General purpose, bundling and reinforcing |
|  | Scotch® Filament Tape Dispensers H-10 | Filament Tape dispensers | N/A | N/A | Bundling and reinforcing |




Ordering Information for Filament Tapes

| Product Number | UPC (021200-) | Size | Inner Unit Pack | Case Qty. |
|--|---------------|------------------------------|-----------------|--------------|
| Scotch® Industrial Grade Filament Tape 893† | | | | |
| 893 | 06937* | 1/2" x 60 yd. (13 mm x 55 m) | N/A | 72 rolls |
| 893 | 06938* | 3/4" x 60 yd. (19 mm x 55 m) | N/A | 48 rolls |
| 893 | 06939* | 1" x 60 yd. (25 mm x 55 m) | N/A | 36 rolls |
| Scotch® Commercial Grade Filament Tape 897† | | | | |
| 897 | 86523 | 1/2" x 60 yd. (13 mm x 55 m) | N/A | 72 rolls |
| 897 | 86524 | 3/4" x 60 yd. (19 mm x 55 m) | N/A | 48 rolls |
| 897 | 86525 | 1" x 60 yd. (25 mm x 55 m) | N/A | 36 rolls |
| Scotch® Filament Tape Dispenser H-10 | | | | |
| | 06910 | 1" (25 mm) | 1 each | 6 dispensers |

*UPC prefix 051131-

†Order product in metric units.


Specifications for Label Protection Tapes

| | Product Number | Product Description | Tape Thickness | Temperature Rating | Typical Applications |
|--|---|---|----------------|--------------------|--|
|  | Scotch® Film Tape 8210 | Lightly pink tinted label | 2.5 mil | N/A | Protect label from abrasions and moisture, but allow barcode scanning |
|  | Scotch® Pouch Tape 8240 | Pressure sensitive tape with rectangular window and orange border | 2.5 mil | N/A | Display documents on the exterior of package for easy viewing by recipient |
|  | Scotch® Commercial Label Protection Tape 3565 | Utility grade label protection tape | 1.9 mil | N/A | To protect and preserve identification labels in shipping |

Ordering Information for Label Protection Tapes

| Product Number | UPC (021200-) | Size | Inner Unit Pack | Case Qty. |
|--|---------------|----------------------------------|-----------------|-----------|
| Scotch® Film Tape 8210 | 06888 | 4" x 72 yd. (10 cm x 66 m) | N/A | 8 rolls |
| Scotch® Pouch Tape 8240 | 06947 | 5" x 6" (13 cm x 15 cm) | N/A | 8 rolls |
| Scotch® Commercial Label Protection Tape 3565 | 73154 | 3-7/10" x 104 yd. (96 mm x 95 m) | N/A | 18 rolls |

Specifications for Palletizing Tapes

| | Product Number | Product Description | Tape Thickness | Temperature Rating | Typical Applications |
|---|--|---|--------------------------------|--------------------|---|
|  | Scotch® Stretchable Tape 8884 and 8886 | High performance transparent stretchable tape | 8884 is 5 mil 8886 is 7 mil | N/A | Encasing A & B type pallets for internal shipping |

Ordering Information for Palletizing Tapes

| Product Number | UPC (021200-) | Size | Inner Unit Pack | Case Qty. |
|--------------------------------------|---------------|---------------------------------|-----------------|-----------|
| Scotch® Stretchable Tape 8884 | 69313 | 1-3/10" x 60 yd. (36 mm x 55 m) | N/A | 24 rolls |
| Scotch® Stretchable Tape 8886 | 69314 | 1-3/10" x 60 yd. (36 mm x 55 m) | N/A | 24 rolls |